Analiziranje rezultata teniskih mečeva

Luka Raić, Anđelko Prskalo, Martin-Ante Rogošić, Katarina Zec

2024-01-21

Sadržaj

1 Definicija zajednički korištenih podataka i funkcija:

Funkcije za dohvat podataka i željenog perioda:

```r
fetch_data <- function(years) {

  df_list <- list()
  for (year in years) {
    file_path <- paste0("./ATP-Matches/atp_matches_", year, ".csv")
    if (file.exists(file_path)) {
      df <- read_csv(file_path, col_types = "cccnccnnnccncnnnccncncncnnnnnnnnnnnnnnnnnnnnnnnn", sho
      df_list[[as.character(year)]] <- df
    } else {
      warning(paste("File not found for year", year))
    }
  }

  matches <- bind_rows(df_list)
```

```
    rm(df_list, file_path, df, year, years)

    matches
}
```

2   1. istrazivačko pitanje: Kakva je distribucija mečeva na speci-fičnim podlogama u različitim godišnjim dobima?

Dohvaćamo potrebne podatke i malo uređujemo:

```
matches <- fetch_data(1968:2023)

matches$tourney_date <- ymd(matches$tourney_date)
matches <- filter(matches, !is.na(surface))
```

Za svaku obzervaciju određujemo kojem godišnjem dobu pripada:

```
getSeason <- function(DATES) {
    WS <- as.Date("2012-12-15", format = "%Y-%m-%d") # Winter Solstice
    SE <- as.Date("2012-3-15",  format = "%Y-%m-%d") # Spring Equinox
    SS <- as.Date("2012-6-15",  format = "%Y-%m-%d") # Summer Solstice
    FE <- as.Date("2012-9-15",  format = "%Y-%m-%d") # Fall Equinox

    d <- as.Date(strftime(DATES, format="2012-%m-%d"))

    ifelse (d >= WS | d < SE, "Winter",
      ifelse (d >= SE & d < SS, "Spring",
        ifelse (d >= SS & d < FE, "Summer", "Fall")))
}

matches$season <- getSeason(matches$tourney_date)
```
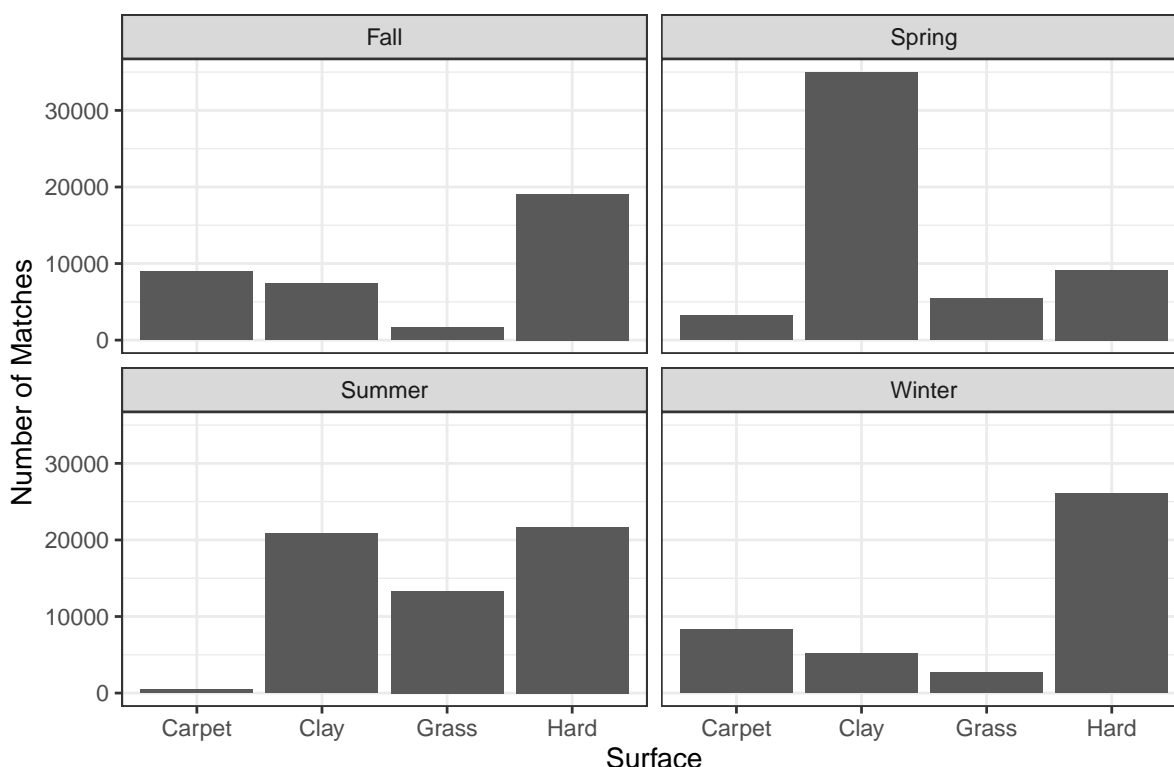
Izvlacenje potrebnih podataka i njihova vizualizacija:

```
ggplot(matches, aes(x = surface)) +
  geom_bar() + theme_bw() +
   facet_wrap(season ~ ., nrow = 2, ncol = 2) +
    labs(title = "Distribution of Matches on Specific Surfaces in Different Seasons",
     x = "Surface", y = "Number of Matches")
```

Distribution of Matches on Specific Surfaces in Different Seasons

3 3. istraživačko pitanje: Ima li razlike u broju serviranih asova na različitim podlogama?

3.1 Učitavanje podataka

Podatke ćemo učitati iz CSV datoteka u listu podatkovnih okvira. Svaki podatkovni okvir sadržava podatke mečeva jedne godine. Nakon toga spajamo sve podatkove okvire u jedan te time imamo informacije o svim odigranim mečevima od 1968. do 2023. godine dostupne u jednom podatkovnom okviru. Iz tog okvira ćemo naknadno izvlačiti potrebne podatke za svrhe analize.

Proces učitavanja podataka je prikazan u sljedećem bloku koda:

```
matches <- fetch_data(1968:2023)
```

3.2 Prilagodba tipova podataka

Nakon učitavanja podataka, potrebno je ispraviti tipove podataka za neke stupce. Ti stupci su:

- `surface` - podloga na kojoj se igrao meč: trava, zemlja, tvrda podloga, tepih (eng. grass, clay, hard, carpet)
- `tourney_level` - razina turnira: Grand Slam, ATP Finals, ATP Masters 1000, ATP Tour, ATP Challengers
- `tourney_date` - datum održavanja turnira
- `winner_hand` - ruka s kojom je pobjednik igrao meč: desnoruk, lijevoruk, ambidekster, nepoznato (eng. right-handed ("R"), left-handed ("L"), ambidextrous ("A"), unknown ("U"))
- `loser_hand` - ruka s kojom je gubitnik igrao meč (definirano isto kao i za winner_hand)

Prilagodba tipova podataka je prikazana u sljedećem kodu:

```
matches$surface <- factor(
  matches$surface,
  levels = c("Grass", "Clay", "Hard", "Carpet")
```

3

```
)
matches$tourney_level <- factor(
  matches$tourney_level,
  levels = c("F", "A", "D", "M", "G")
)
matches$tourney_date <- ymd(matches$tourney_date)
matches$winner_hand <- factor(
  matches$winner_hand,
  levels = c("R", "L", "A", "U")
)
matches$loser_hand <- factor(
  matches$loser_hand,
  levels = c("R", "L", "A", "U")
)
```

3.3 Statistička analiza

3.3.1 Priprema podataka

Za provođenje statističke analize, potrebno je pripremiti podatke. U ovom slučaju, potrebno je izvući podatke o broju serviranih asova po meču i podlogama na kojima se igrao meč. Također, potrebno je ukloniti sve mečeve koji nemaju podatak o broju serviranih asova ili podlogama na kojima se igrao meč.

Podatke spremamo u nove podatkovne okvire od kojih svaki predstavlja aseve na jednoj podlozi:

```
# izdvajanje broja serviranih asova na travnatoj podlozi
aces_grass <- matches %>%
  filter(!is.na(w_ace) & !is.na(l_ace) & surface == "Grass") %>%
  mutate(aces = w_ace + l_ace) %>%
  dplyr::select(aces)

# izdvajanje broja serviranih asova na zemljanoj podlozi
aces_clay <- matches %>%
  filter(!is.na(w_ace) & !is.na(l_ace) & surface == "Clay") %>%
  mutate(aces = w_ace + l_ace) %>%
  dplyr::select(aces)

# izdvajanje broja serviranih asova na tvrdoj podlozi
aces_hard <- matches %>%
  filter(!is.na(w_ace) & !is.na(l_ace) & surface == "Hard") %>%
  mutate(aces = w_ace + l_ace) %>%
  dplyr::select(aces)

# izdvajanje broja serviranih asova na tepihu
aces_carpet <- matches %>%
  filter(!is.na(w_ace) & !is.na(l_ace) & surface == "Carpet") %>%
  mutate(aces = w_ace + l_ace) %>%
  dplyr::select(aces)

# izdvajanje broja serviranih asova na svim podlogama
aces_all <- matches %>%
  filter(!is.na(w_ace) & !is.na(l_ace) & !is.na(surface)) %>%
  mutate(aces = w_ace + l_ace) %>%
  dplyr::select(aces)
```

3.3.2 Deskriptivna statistika

Sada kada smo pripremili podatke, možemo izračunati deskriptivnu statistiku za broj serviranih asova po podlogama. Za svaku podlogu, izračunat ćemo sljedeće vrijednosti za svaku od podloga:

- prosjecni broj asova
- standardnu devijaciju broja asova
- medijan broja asova
- minimalni broj asova
- maksimalni broj asova
- broj mečeva

Table 1: Servirani asovi po podlogama

surface	mean	sd	median	min	max	count
Tepih	13.36	7.95	12	0	70	5878
Travnata	16.16	10.22	14	0	216	9783
Zemljana	7.62	5.65	6	0	74	31085
Tvrda	12.58	8.08	11	0	108	47729
Ukupno	11.37	8.14	10	0	216	94475

Iz prikazanih vizualizacija, možemo vidjeti kako je, u prosijeku, najviše asova servirano na travi, a najmanje na zemlji. Također, možemo vidjeti kako je na travi servirano najviše asova u jednom meču, a na tepihu najmanje. Najveću varijancu broja serviranih asova po meču imamo na travi.

Ove podatke možemo vizualizirati pomoću boxplot dijagrama i dijagrama gustoće.

Broj serviranih asova po podlogama
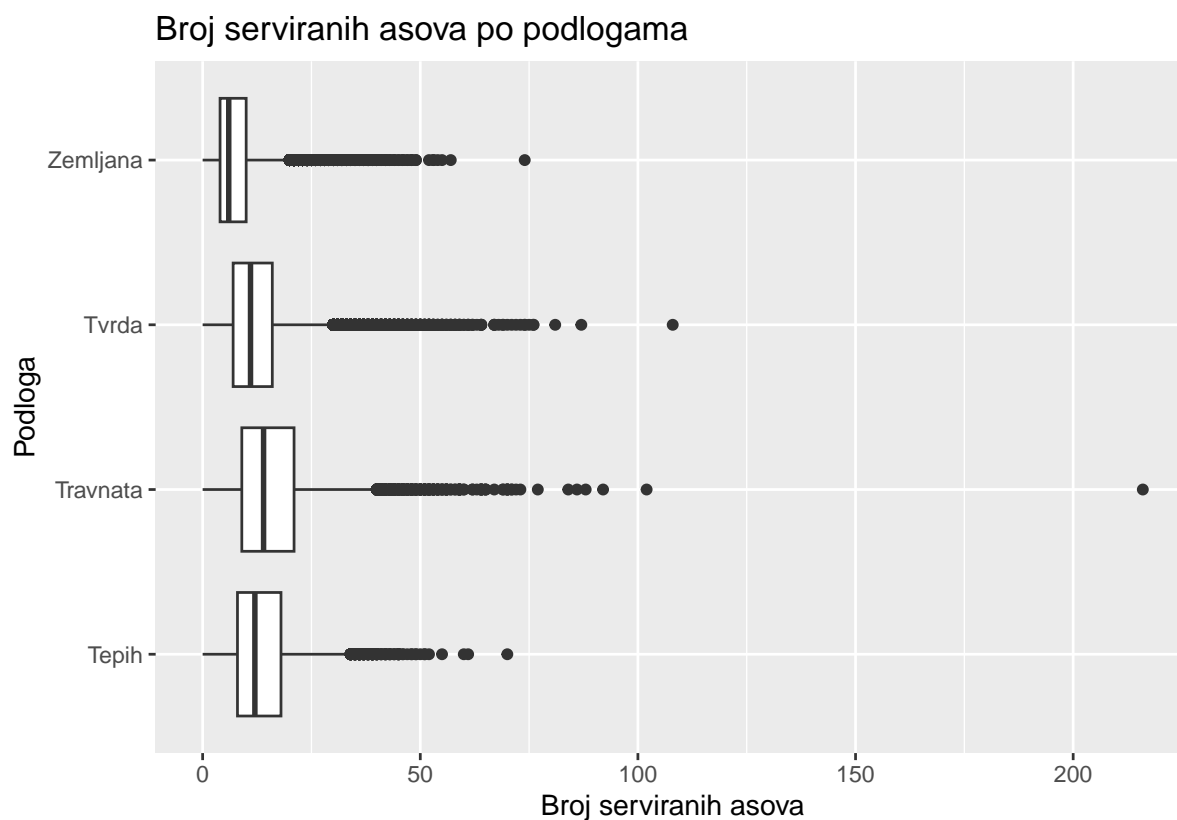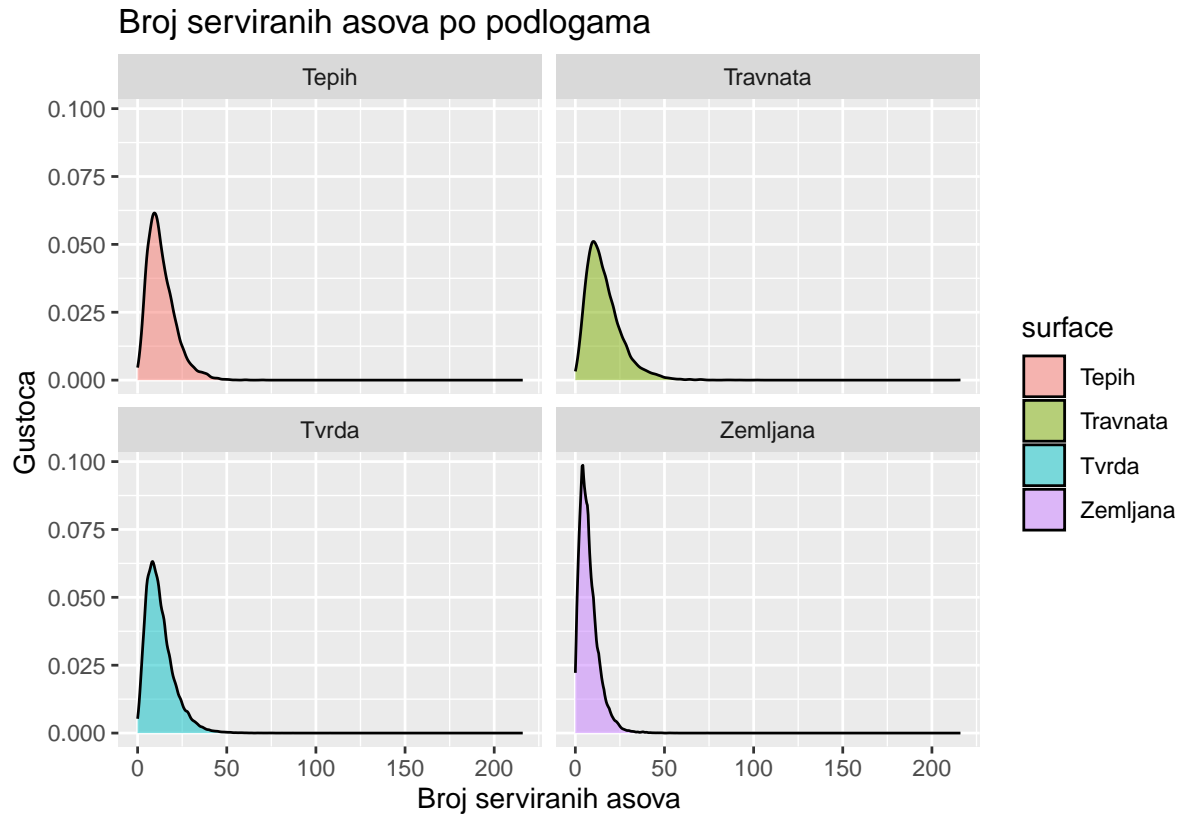
Iz prikazanih boxplot dijagrama i dijagrama gustoće možemo vidjeti kako je distribucija svih uzoraka jako nakošena u lijevo što znači da je većina uzoraka blizu minimalne vrijednosti.

Kako bismo pokušali normalizirati distribucije, možemo izbaciti sve observacije s vrijednostima izvan 1.5 interkvartilnog raspona (outlier-e).

Table 2: Servirani asovi po podlogama nakon izbacivanja outlier-a

surface	mean	sd	median	min	max	count
Tepih	12.68	6.79	11	0	33	5729
Travnata	15.08	8.13	14	0	39	9470
Tvrda	11.59	6.39	11	0	29	45839
Zemljana	6.91	4.35	6	0	19	29866

Broj serviranih asova po podlogama nakon izbacivanja outlier–a

Broj serviranih asova po podlogama nakon izbacivanja outlier–a
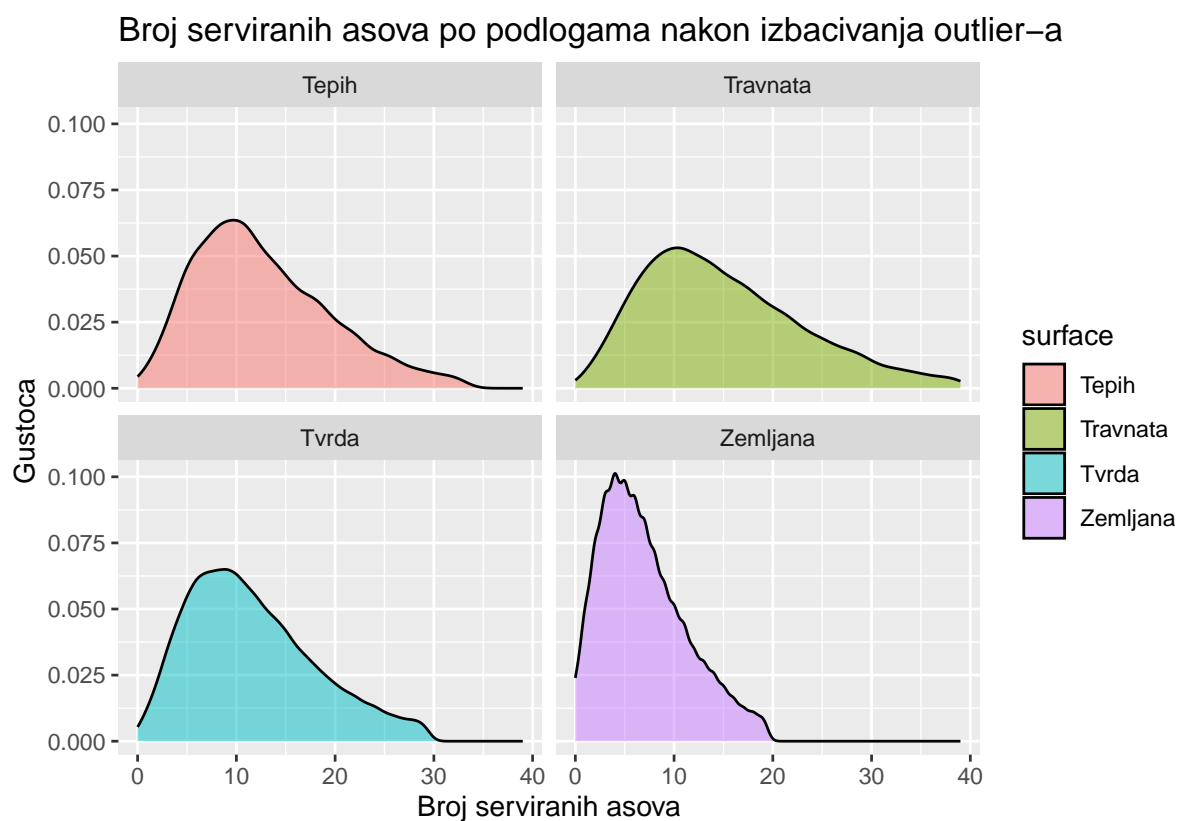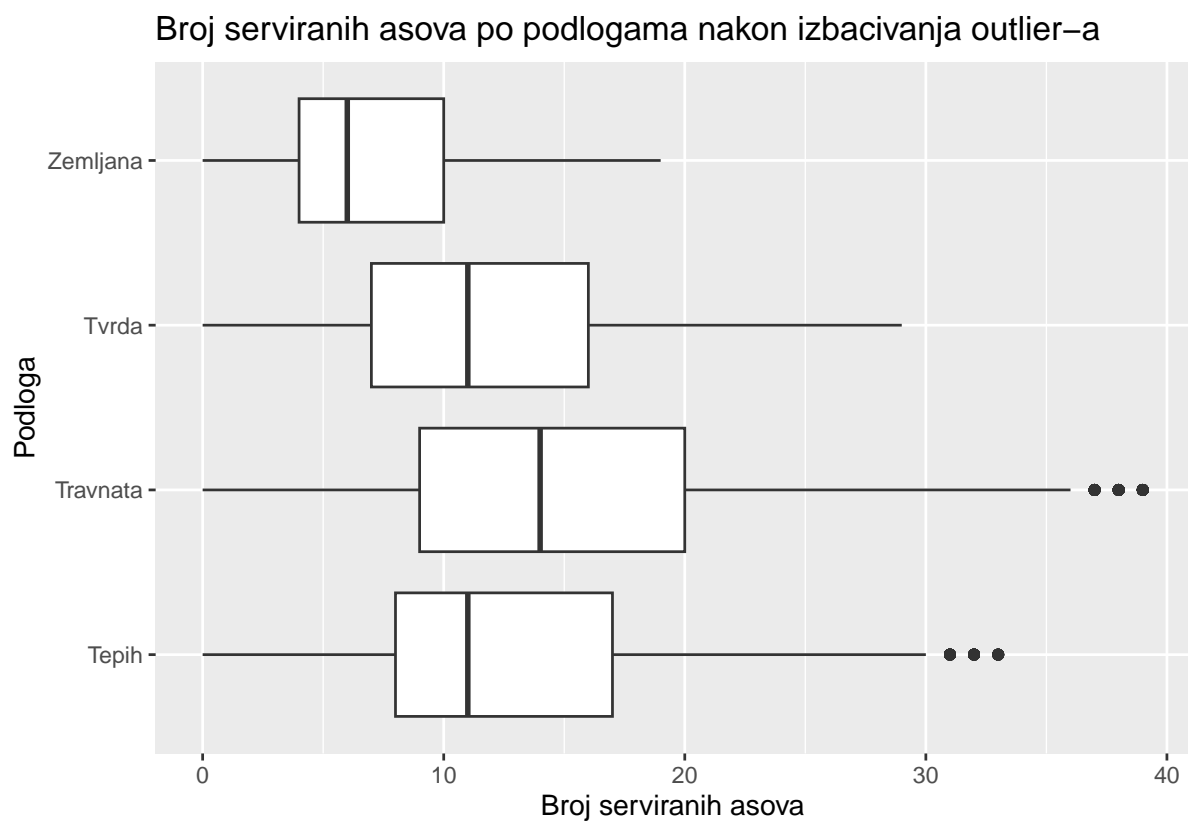
Nakon izbacivanja outlier-a, distribucije su i dalje nakošene u lijevo, ali je to manje izraženo nego prije. Također možemo vidjeti kako je sada varijanca svake podloge manja nego prije.

3.3.3 Statističko testiranje

Nakon vizualiziranja podataka i izbacivanja outlier-a, možemo provesti statističko testiranje. Budući da distribucije uzoraka ne izgledaju kao da potječu iz normalne distribucije, prvo ćemo provjeriti njihovu normalnost, a zatim na temelju ishoda testa odlučiti koji test ćemo koristiti za provođenje statističkog testiranja.

3.3.3.1 Testiranje normalnosti Za testiranje normalnosti koristit ćemo Kolmogorov-Smirnovljev test. Testirat ćemo normalnost svih uzoraka zajedno, a zatim svakog uzorka posebno.

Prije testiranja, postavljamo hipoteze:

- H0: distribucija uzorka je normalna
- H1: distribucija uzorka nije normalna

Za razinu značajnosti uzimamo 0.05.

Servirani asovi na svim podlogama
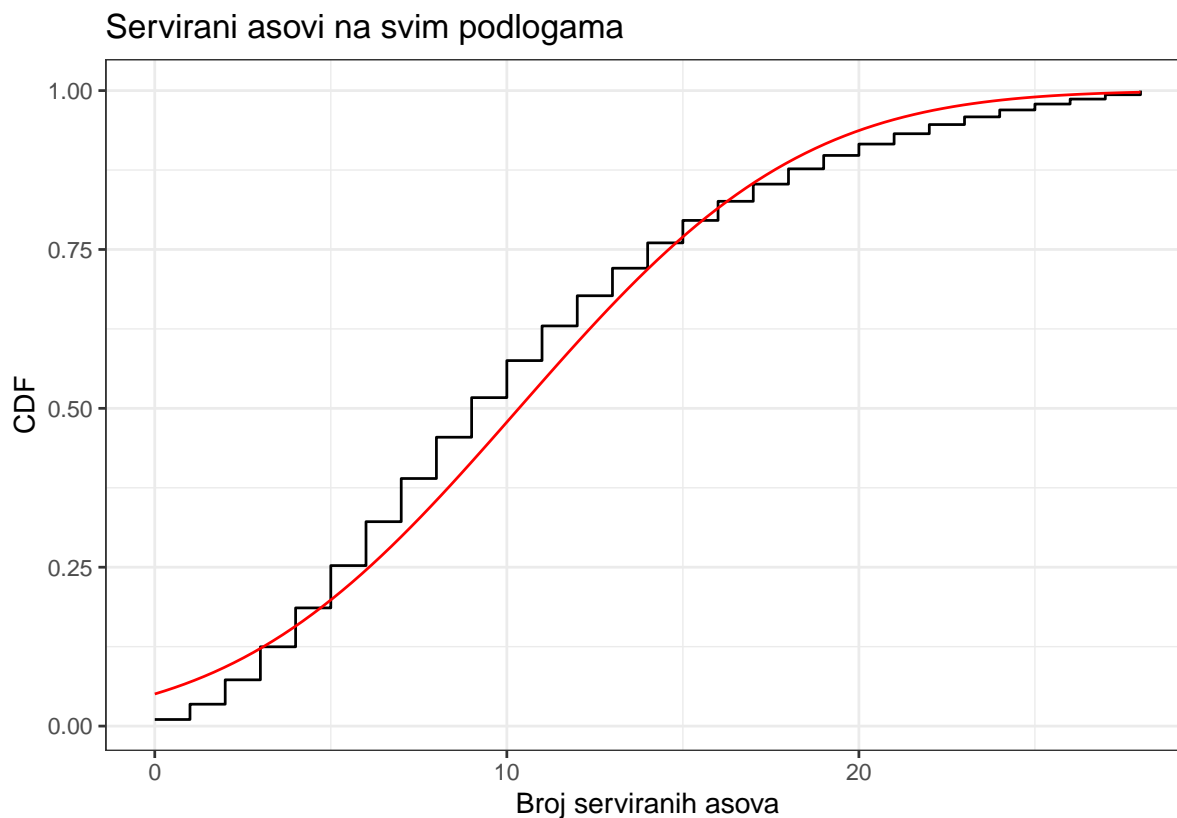
```
##
##  Asymptotic one-sample Kolmogorov-Smirnov test
##
## data:  aces_all$aces
## D = 0.10114, p-value < 2.2e-16
## alternative hypothesis: two-sided
```

Servirani asovi na travnatoj podlozi
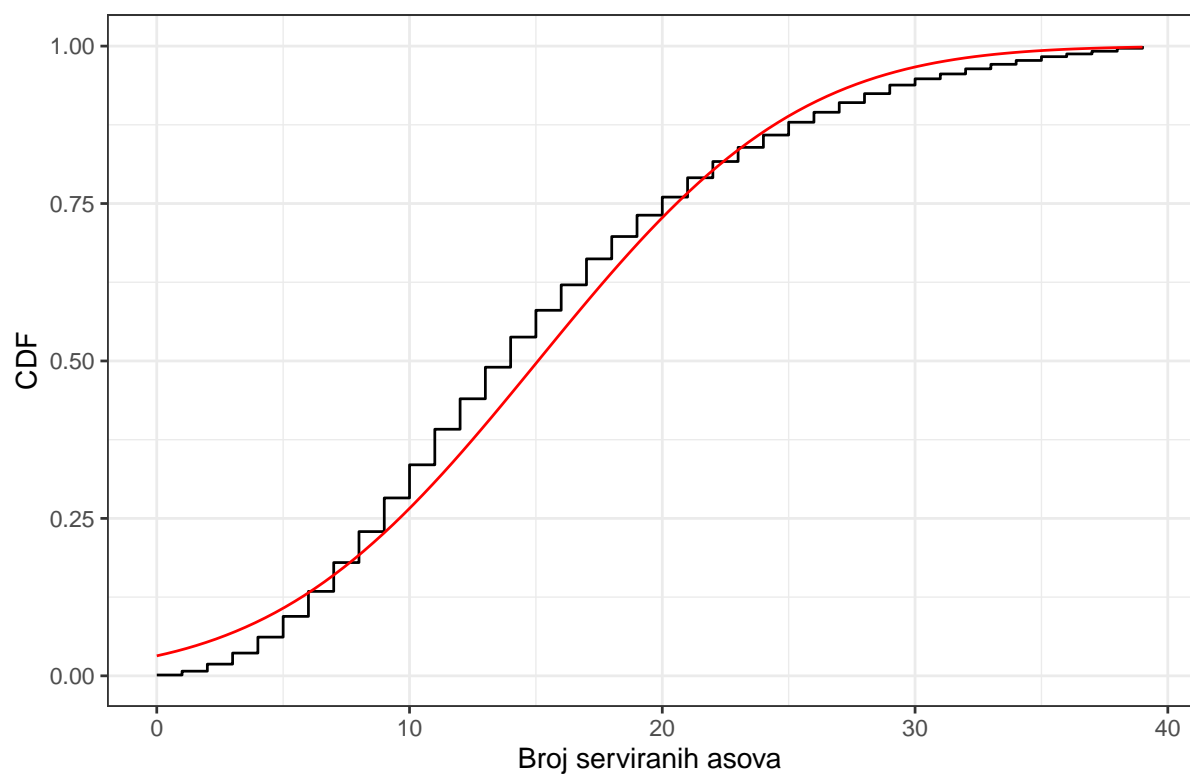

```
##
##   Asymptotic one-sample Kolmogorov-Smirnov test
##
## data:  aces_grass$aces
## D = 0.091126, p-value < 2.2e-16
## alternative hypothesis: two-sided
```

Servirani asovi na zemljanoj podlozi
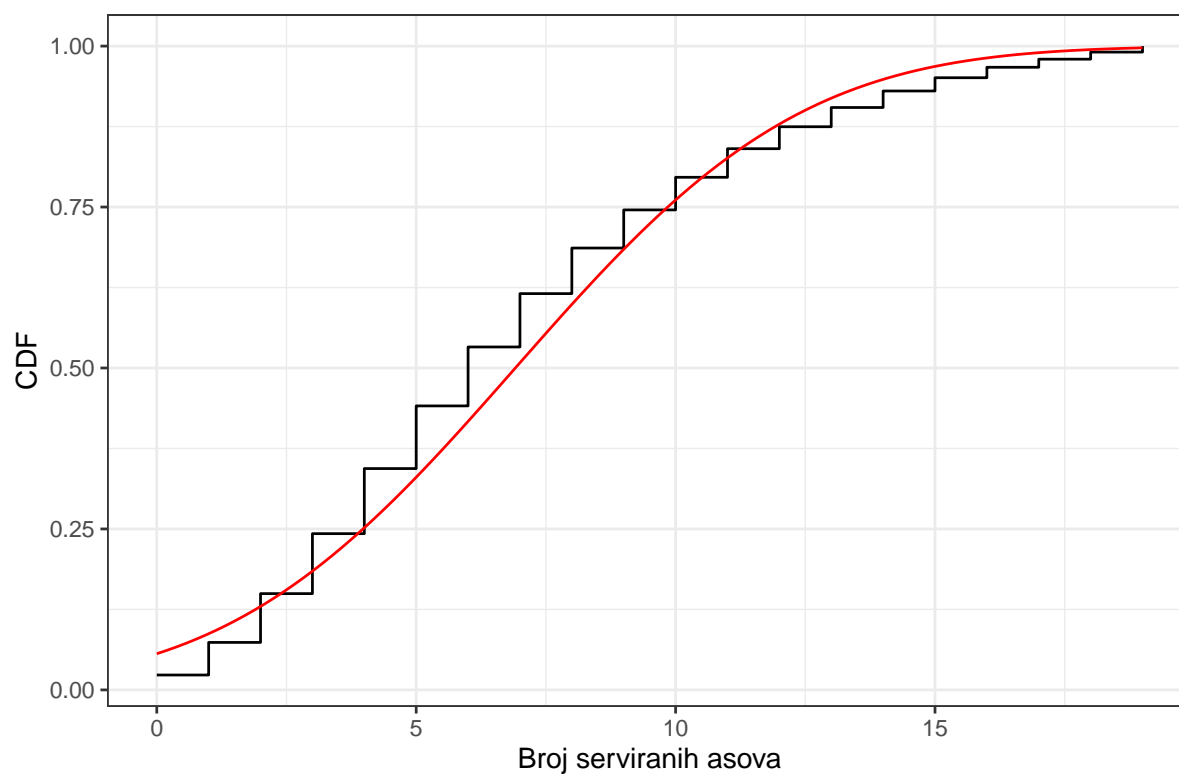

```
## 
##  Asymptotic one-sample Kolmogorov-Smirnov test
## 
## data:  aces_clay$aces
## D = 0.11556, p-value < 2.2e-16
## alternative hypothesis: two-sided
```

Servirani asovi na tvrdoj podlozi
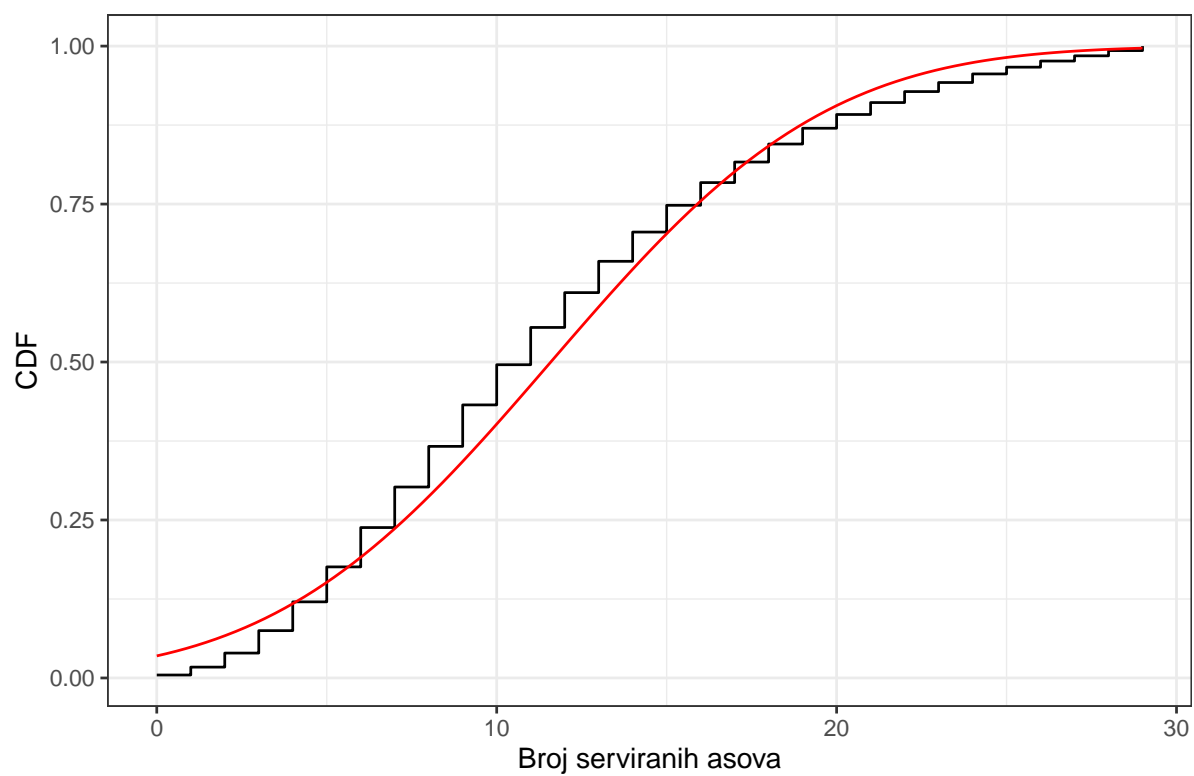

```
##
##  Asymptotic one-sample Kolmogorov-Smirnov test
##
## data:  aces_hard$aces
## D = 0.093996, p-value < 2.2e-16
## alternative hypothesis: two-sided
```

Servirani asovi na tepihu
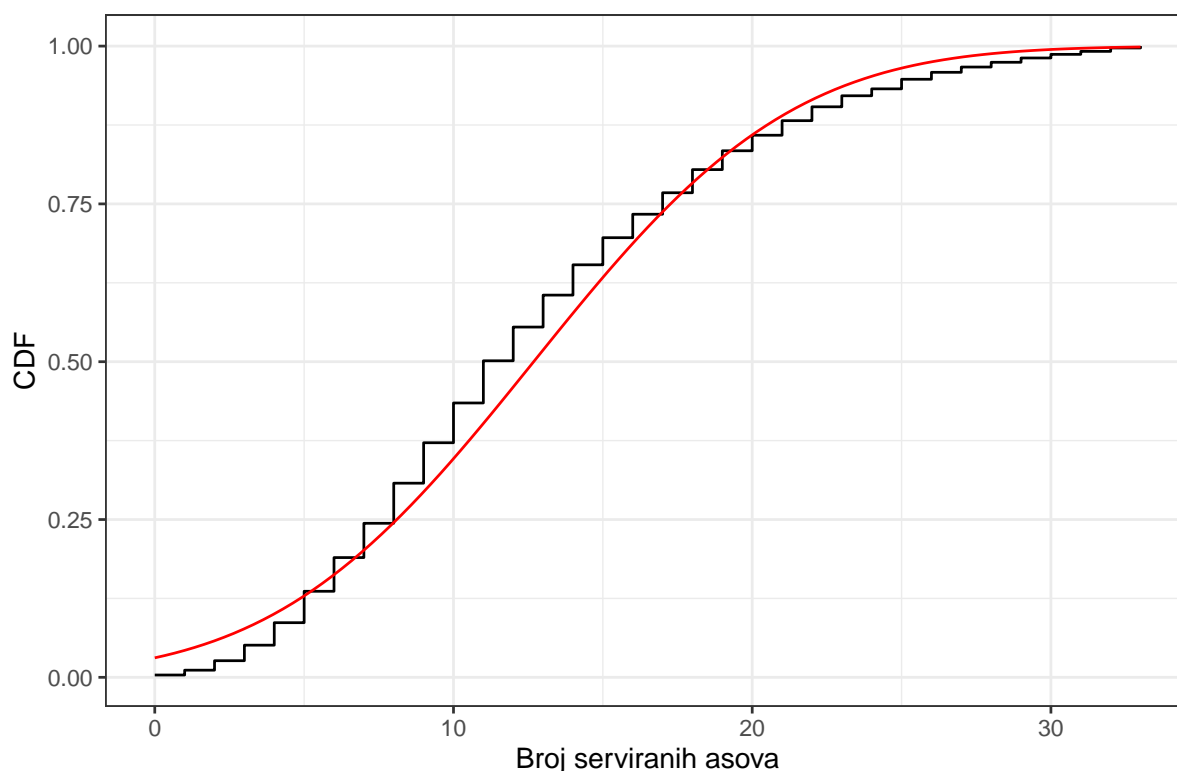
```
## 
##  Asymptotic one-sample Kolmogorov-Smirnov test
## 
## data:  aces_carpet$aces
## D = 0.099377, p-value < 2.2e-16
## alternative hypothesis: two-sided
```

Iz prikazanih dijagrama i rezultata testiranja možemo vidjeti kako distribucije uzoraka nisu normalne. Stoga ćemo za statističko testiranje koristiti neparametarske testove.

3.3.3.2 Neparametarsko testiranje Za neparametarsko testiranje koristit ćemo Kruskal-Wallisov test. Prije testiranja, postavljamo hipoteze:

- H0: nema razlike u broju serviranih asova na različitim podlogama
- H1: postoji razlika u broju serviranih asova na različitim podlogama

Za razinu značajnosti uzimamo 0.05.

```
## 
##  Kruskal-Wallis rank sum test
## 
## data:  aces by surface
## Kruskal-Wallis chi-squared = 15060, df = 3, p-value < 2.2e-16
```

Iz rezultata testiranja možemo vidjeti kako je p-vrijednost manja od 0.05, stoga odbacujemo nultu hipotezu i zaključujemo kako postoji razlika u broju serviranih asova na različitim podlogama.

Kako bismo saznali na kojim podlogama postoji razlika u broju serviranih asova, provest ćemo post-hoc testiranje. Za post-hoc testiranje koristit ćemo Dunnov test.

```
## 
##                      Comparison of x by group
##                          (Bonferroni)
## Col Mean-|
## Row Mean |      Tepih    Travnata      Tvrda
```

12

```
## ---------+------------------------------
## Travnata |   -14.68551
##          |      0.0000*
##          |
##    Tvrda |    10.50965    34.82310
##          |      0.0000*     0.0000*
##          |
## Zemljana |    62.56852    97.36533    101.5528
##          |      0.0000*     0.0000*      0.0000*
##
## alpha = 0.05
## Reject Ho if p <= alpha/2
```

Iz rezultata testiranja možemo vidjeti kako je p-vrijednost manja od 0.05 za sve kombinacije podloga, stoga odbacujemo nultu hipotezu za sve kombinacije podloga i zaključujemo kako postoji razlika u broju serviranih asova na svim kombinacijama podloga.

3.4 Zaključak

Na temelju provedene statističke analize, možemo zaključiti kako postoji razlika u broju serviranih asova na različitim podlogama. Štoviše, postoji razlika u broju serviranih asova na svim kombinacijama podloga. Najviše asova servirano je na travi, a najmanje na zemlji. Također, najveća varijanca broja serviranih asova po meču je na travi, a najmanja na tepihu.

4 6. istrazivačko pitanje: U kojoj je mjeri moguće predvidjeti ishod teniskog meča?

4.1 Uvod

Kako bi odgovorili na ovo pitanje, u analizi smo se fokusirali na teniske mečeve iz perioda 2010-2020 (mečevi "modernog tenisa" za koje imamo većinu podataka za veliki broj varijabli, Novak Đoković je 2011. osvojio 3/4 Grand Slam turnira i počela je formacija tzv. "Velike trojke"...) pri čemu nećemo uzimati u obzir mečeve Olimpijskih igara, Davis Cup-a i ATP Tour Finals-a zbog drugačijeg formata (ovo su jedini turniri za koje smo našli da su drugačijeg formata, vrlo je vjerojatno da ih ima još, ali izgleda da nam nisu stvarali previše problema kasnije):

```
matches <- fetch_data(2010:2020)

matches$tourney_name %>%
  str_detect("(Olympics|Davis Cup|Finals)") %>%
    which -> differentFormatMatchesIndices
matches <- matches[-differentFormatMatchesIndices,]
```

Za predikciju ishoda meča koristit ćemo sljedeće varijable (vrijednosti varijabli sa oznakom * izračunavamo na temelju svih mečeva tenisača koji su odigrani prije meča za koji računamo odgovarajuću statistiku):

- height - visina igrača. Viši igrači imaju brži i efikasniji servis, lakše pokrivaju teren, bolja igra na mreži.
- age - broj godina. Veći broj godina donosi iskustvo, ali potencijalno i lošije fizičke sposobnosti.
- rank - rang na ATP ljestvici. Indikator sveukupne kvalitete igrača.
- avgAce* - prosječan broj asova po meču. Indikator kvalitete servisa tenisača.
- avgDf* - prosječan broj dvostrukih pogrešaka po meču. Indikator sklonosti pogreškama.
- avgSvptWon* - prosječan omjer osvojenih poena na servisu u usporedbi s igračevim brojem odigranih poena za vlastiti servis. Indikator snažnog i efikasnog servisa.
- avgBpSavedPercentage* - prosječan omjer "spašenih" breakpointova. Indikator mentalne snage i iskustva tenisača.
- winrate* - postotak pobjeda u dosadašnjoj karijeri. Indikator kvalitete tenisača.
- lastTenWinrate - postotak pobjeda u zadnjih 10 mečeva. Indikator forme tenisača.

U nastavku slijede grafovi za neke od prethodno odabranih statistika čiji nam je utjecaj na konačan ishod meča bio "upitan":

```
ifelse(matches$w_bpFaced == 0, NA,
        matches$w_bpSaved / matches$w_bpFaced) -> wBpSavedPercentage
ifelse(matches$l_bpFaced == 0, NA,
        matches$l_bpSaved / matches$l_bpFaced) -> lBpSavedPercentage

data <- data.frame(winner = wBpSavedPercentage, loser = lBpSavedPercentage)
data <- na.omit(data)
data <- gather(data, key = "status", value = "bpSavedPercentage")

plot <- ggplot(data, aes(x = bpSavedPercentage, fill = status)) +
  geom_histogram(alpha = 0.5, bins = 40, position = 'identity') +
  scale_fill_manual(values = c("winner" = "green", "loser" = "red")) + theme_bw()

plot
```
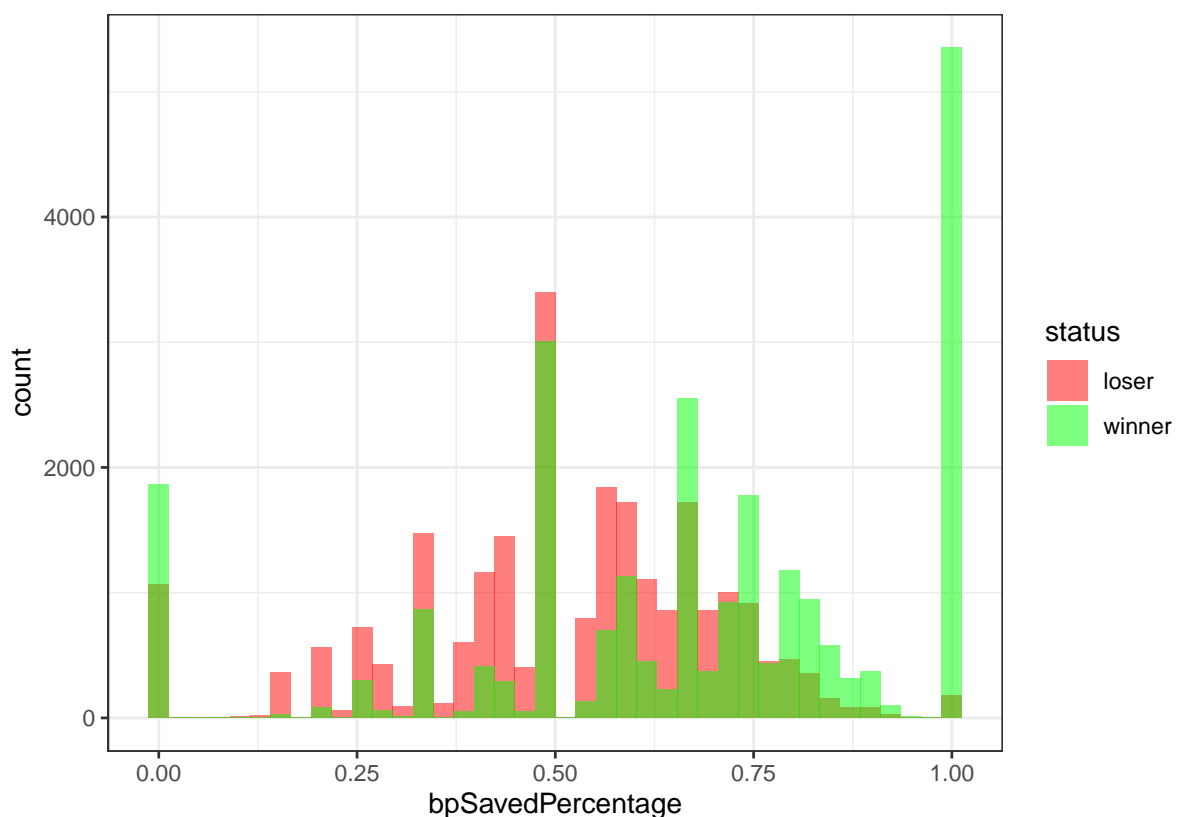


```
ifelse(matches$w_svpt == 0, NA,
        (matches$w_1stWon + matches$w_2ndWon) / matches$w_svpt) -> wSvptWonPercentage
ifelse(matches$l_svpt == 0, NA,
        (matches$l_1stWon + matches$l_2ndWon) / matches$l_svpt) -> lSvptWonPercentage

data <- data.frame(winner = wSvptWonPercentage, loser = lSvptWonPercentage)
data <- na.omit(data)
data <- gather(data, key = "status", value = "svptWonPercentage")

plot <- ggplot(data, aes(status, svptWonPercentage)) +
  geom_boxplot() + theme_bw()

plot
```
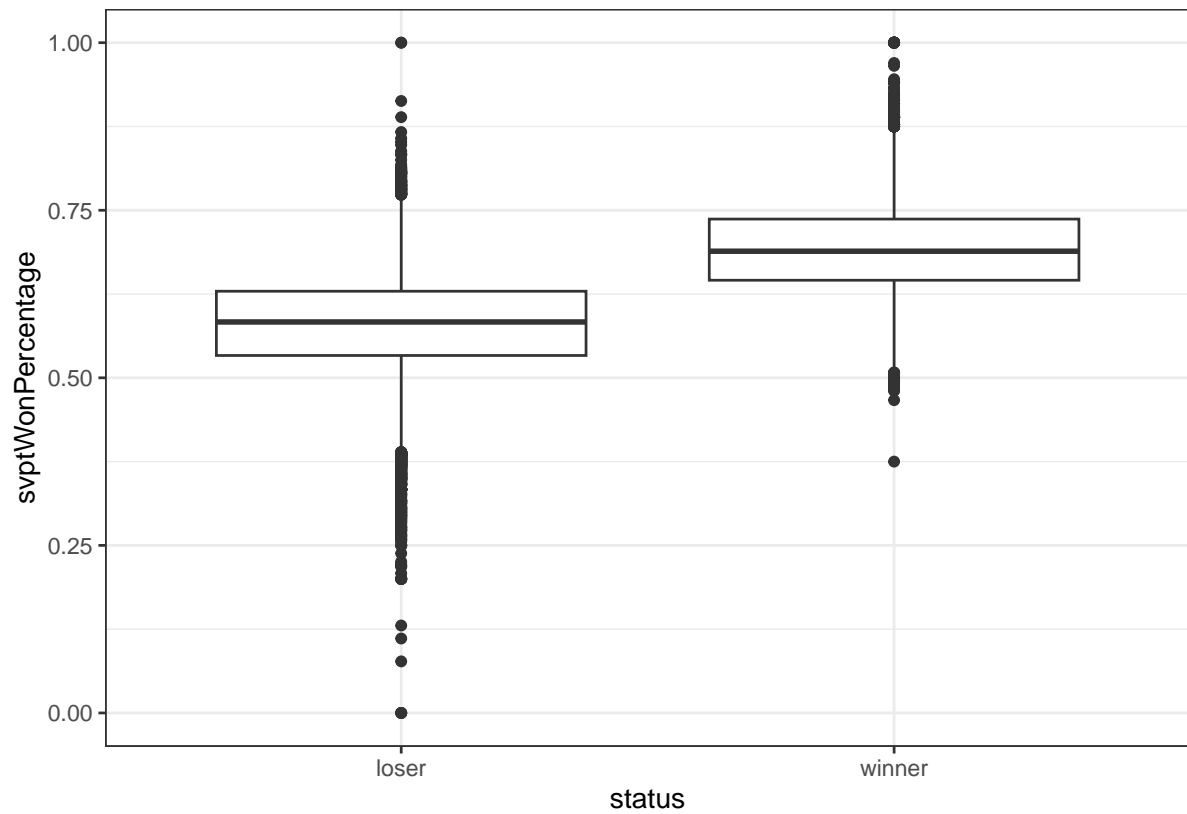
```
data <- data.frame(winner = matches$winner_age, loser = matches$loser_age)
data <- gather(data, key = "status", value = "age")

plot <- ggplot(data, aes(x = age, color = status)) +
  geom_density() + theme_bw()

plot
```
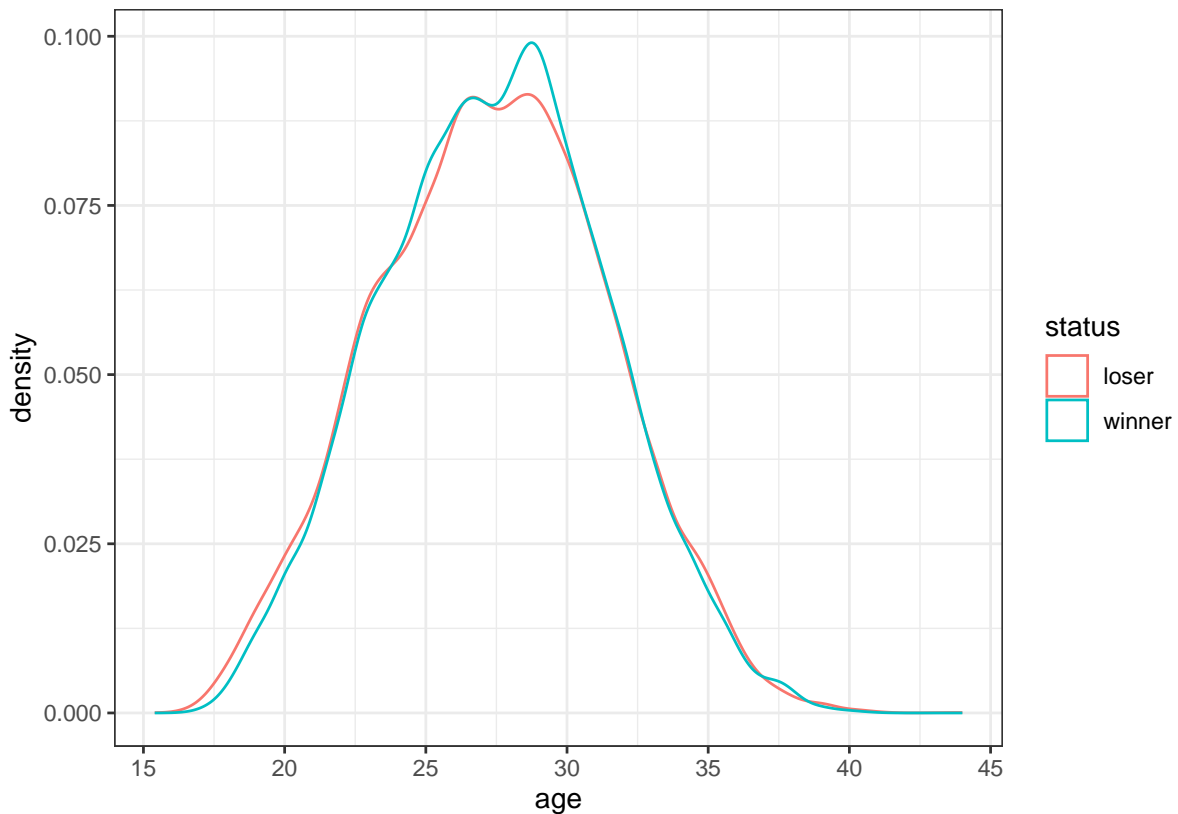
Sada ćemo izbaciti neregularne obzervacije:

```
faultyDataMatchesIndices <- which(
  apply(matches[, c("winner_rank", "loser_rank", "winner_ht", "loser_ht", "w_ace")],
        1, function(x) any(is.na(x))))
matches <- matches[-faultyDataMatchesIndices,]
```

te još malo pripremiti skup podataka za obradu:

```
matches$tourney_date <- ymd(matches$tourney_date)
matches <- matches %>% arrange(tourney_date, match_num)
matches$match_id <- seq(1, nrow(matches))
```

4.2   Obrada skupa podataka

Sada odabiremo one teniske mečeve na kojima ćemo kasnije bazirati naš logistički model. To su teniski mečevi u kojima je svaki od oba tenisača prethodno odigrao barem 10 mečeva (pojedine statistike kao što je npr. winrate su jako osjetljive na broj obzervacija). Ove mečeve ćemo u nastavku zvati "validni mečevi":

```
checkIfValidForProcessing = function(match) {
  winnerId <-  match["winner_id"] %>% as.numeric
  loserId <-  match["loser_id"] %>% as.numeric
  matchId <-  match["match_id"] %>% as.numeric

  lastMatchIndex <-  matchId - 1
  if (lastMatchIndex == 0) return(FALSE)

  winnersCandidates <-  pull(matches[1:lastMatchIndex, ], winner_id)
  losersCandidates <-  pull(matches[1:lastMatchIndex, ], loser_id)
  playersCandidates <-  c(winnersCandidates, losersCandidates)

  validPlayersIndices <-  table(playersCandidates) >= 10
```

```r
    table(playersCandidates)[validPlayersIndices] %>% names %>% as.numeric -> validPlayers

    if (winnerId %in% validPlayers && loserId %in% validPlayers) return (TRUE)

    return (FALSE)
}


validMatchesIndices <- apply(matches, 1, checkIfValidForProcessing)
validMatches <- matches[validMatchesIndices, ]
```

Sada kreiramo pomoćni podatkovni okvir u kojemu će jedna obzervacija predstavljati statistike pojedinog igrača po pojedinom meču. NAPOMENA: ovdje gledamo performanse svakog igrača, i pobjednika i gubitnika, na svakom meču iz perioda 2010-2020 (osim na onim mečevima koje smo izbacili nakon prvog "čišćenja"):

```r
allWinnersMatchStats <- matches[, c("match_id", "winner_id", "w_ace", "w_df", "w_svpt",
                                    "w_1stWon", "w_2ndWon", "w_bpSaved", "w_bpFaced")]
allWinnersMatchStats$won <- 1
names(allWinnersMatchStats) <- c("matchId", "playerId", "ace", "df", "svpt",
                                 "firstWon", "secondWon", "bpSaved", "bpFaced", "won")

allLosersMatchStats <- matches[, c("match_id", "loser_id", "l_ace", "l_df", "l_svpt",
                                   "l_1stWon", "l_2ndWon", "l_bpSaved", "l_bpFaced")]
allLosersMatchStats$won <- 0
names(allLosersMatchStats) <- c("matchId", "playerId", "ace", "df", "svpt",
                                "firstWon", "secondWon", "bpSaved", "bpFaced", "won")

allPlayersMatchStats <- rbind(allWinnersMatchStats, allLosersMatchStats)
allPlayersMatchStats <- allPlayersMatchStats %>% arrange(matchId)
```

Kreiramo dva podatkovna okvira (jedan za pobjednika, drugi za gubitnika) koji će sadržavati podatke o godinama, visini i rangu na ATP ljestvici u trenutku igranja validnog meča:

```r
validMatchesWinnerInfo <- validMatches[, c("match_id", "winner_id", "winner_ht",
                                           "winner_age", "winner_rank")]
names(validMatchesWinnerInfo) <- c("matchId", "playerId", "height", "age", "rank")

validMatchesLoserInfo <- validMatches[, c("match_id", "loser_id", "loser_ht",
                                          "loser_age", "loser_rank")]
names(validMatchesLoserInfo) <- c("matchId", "playerId", "height", "age", "rank")
```

Za svaki validni meč računamo potrebne statistike za tenisača pobjednika i tenisača gubitnika na temelju svih njihovih prethodnih mečeva koji se nalaze u skupu "matches":

```r
calculateValidMatchesStats <- function(x) {

  matchId = x["matchId"] %>% as.numeric
  playerId = x["playerId"] %>% as.numeric
  height = x["height"] %>% as.numeric
  age = x["age"] %>% as.numeric
  rank = x["rank"] %>% as.numeric

  pastMatches <- allPlayersMatchStats[allPlayersMatchStats$playerId == playerId &
                                        allPlayersMatchStats$matchId < matchId,]

  avgAce <- mean(pastMatches$ace, na.rm = T)

  avgDf <- mean(pastMatches$df, na.rm = T)

  svptWonPercentage <- ifelse(pastMatches$svpt == 0, NA,
```

```
                                        (pastMatches$firstWon + pastMatches$secondWon) / pastMatches$svpt)
    avgSvptWonPercentage <- mean(svptWonPercentage, na.rm = T)

    bpSavedPercentage <- ifelse(pastMatches$bpFaced == 0, NA,
                                pastMatches$bpSaved / pastMatches$bpFaced)
    avgBpSavedPercentage <- mean(bpSavedPercentage, na.rm = T)

    winrate <- mean(pastMatches$won, na.rm = T)

    lastTenWinrate <- sum(tail(pastMatches$won, 10)) / 10

    result <- c(matchId, height, age, rank, avgAce, avgDf,
                avgBpSavedPercentage, avgSvptWonPercentage, winrate, lastTenWinrate)

    result
}

validMatchesWinnerData <- apply(validMatchesWinnerInfo, 1, calculateValidMatchesStats)
validMatchesWinnerData <- as.data.frame(t(validMatchesWinnerData))
colnames(validMatchesWinnerData) <- c("matchId", "height", "age", "rank", "avgAce", "avgDf", "avgBpS

validMatchesLoserData <- apply(validMatchesLoserInfo, 1, calculateValidMatchesStats)
validMatchesLoserData <- as.data.frame(t(validMatchesLoserData))
colnames(validMatchesLoserData) <- c("matchId", "height", "age", "rank", "avgAce", "avgDf", "avgBpSa
```

Stvaramo 3 nova podatkovna okvira: playerOne, playerTwo i playerDifference. Prva 2 podatkovna okvira
odgovaraju jedan drugom po retcima, npr. u oba okvira u retku 547 se nalaze podaci o istom meču, samo
jedan od njih sadrži sve podatke o gubitniku, a drugi o pobjedniku, s tim da je okvir koji sadrži podatke za
pobjednika, odnosno gubitnika, nasumično odabran. Okvir playerDifference predstavlja njihovu razliku:

```
winnerIndices <- sample(1:23101, size = length(1:23101) * 0.5, replace = FALSE)

playerOne <- rbind(validMatchesWinnerData[winnerIndices, ],
                   validMatchesLoserData[-winnerIndices, ]) %>% arrange(matchId)
playerTwo <- rbind(validMatchesWinnerData[-winnerIndices, ],
                   validMatchesLoserData[winnerIndices, ]) %>% arrange(matchId)
playerDifference <- playerOne - playerTwo

playerDifference$won <- 0
playerDifference[winnerIndices, "won"] <- 1
playerDifference$matchId <- NULL

playerDifference
```

```
##      height   age rank       avgAce         avgDf avgBpSavedPercentage
## 1        -5   4.0  -30 -2.545455e+00 -0.7272727273         1.986111e-01
## 2         5   0.1   26  1.901515e+00  0.2045454545        -1.686344e-02
## 3        30   2.3   -7  1.330000e+01 -0.1000000000         2.596561e-01
## 4         5   1.9   21 -6.666667e-02  1.7333333333        -8.551828e-02
## 5         8  -4.7  -26  4.987879e+00  2.4060606061        -1.103061e-01
## 6         2   6.1    8  4.159091e+00 -0.3106060606         2.843915e-02
## 7         0  -1.4  -11 -2.709091e+00 -0.4181818182        -5.027652e-03
## 8         2  -4.2    5  3.353846e+00  1.5076923077         1.716721e-01
## 9        -8  -2.2   -3  3.636364e-01  0.5454545455         1.523153e-01
## 10        8   2.5   -6  4.622378e+00  0.1748251748        -1.367244e-02
## 11       25 -10.7  -58  4.787500e+00  0.3375000000         1.777351e-01
## 12      -23  -5.0   22 -1.143846e+01  0.3153846154        -2.766973e-01
## 13        2   1.5   38 -3.870130e+00 -2.2207792208        -9.500904e-02
## 14       -5  -4.5  -53  1.533333e+00  0.0666666667         1.264827e-01
```

```
## 15     2  -3.4   22  3.084615e+00  2.7230769231   1.645668e-01
## 16    13  -5.7   15  4.889423e+00  1.7692307692   1.621376e-02
## 17   -15  -0.9  -50 -1.300000e+00 -0.4666666667  -4.813302e-02
## 18     3   0.3  -20  4.104167e+00  3.4583333333   4.382205e-02
## 19    -2   1.3   -3 -5.127273e+00 -0.8272727273  -2.861541e-02
## 20    15  -7.3  -22  3.753968e+00  0.2380952381   1.419059e-01
## 21     3   2.0  -24 -3.100000e+00  0.0000000000   1.471741e-01
## 22    -5   3.7  -34 -3.071429e+00 -2.2714285714   8.870573e-02
## 23   -10  -5.0  -19  7.307692e-01  0.4615384615  -1.772764e-01
## 24    -2   4.1  -14 -2.517647e+00 -1.6392156863  -1.169886e-01
## 25    -5   7.1   37 -7.466667e+00 -1.3666666667  -3.840955e-02
## 26     0  -1.1  -16 -2.109091e+00  0.5333333333   1.016126e-01
## 27     8   1.7   -5  8.496970e+00  3.4181818182   6.192416e-02
## 28    20   2.7  -40  1.225000e+01 -0.5750000000   1.378401e-01
## 29    -5   1.9   35  2.582888e+00 -1.5721925134  -1.238407e-01
## 30    -8  -2.2    1  3.750000e-01  0.2500000000   9.609300e-02
## 31   -18  -9.5   39 -9.420814e+00  1.4796380090  -2.537135e-03
## 32     5  -4.9  -13 -8.333333e-02  2.1666666667  -5.324106e-02
## 33    10  -1.7   -2  1.090909e+00  0.6363636364   8.321207e-02
## 34     5   1.4  -55 -2.993506e+00  0.0259740260   1.955311e-01
## 35    10  -7.5  -43  1.611111e+00  0.6944444444  -4.824689e-02
## 36    -8   5.4   43 -7.250000e+00  1.5375000000   1.753906e-01
## 37   -12   5.2   30 -1.954545e+00 -0.5363636364  -1.745870e-01
## 38   -25  -6.5   11 -1.140000e+01 -0.2222222222  -1.614221e-01
## 39    10   2.2   36  4.935829e+00  1.0106951872  -1.328645e-01
## 40    12  -7.2   39  6.762500e+00  1.4750000000   7.347589e-02
## 41    13  -0.1  -12  4.964286e+00 -0.8333333333   4.592798e-02
## 42    16  -4.6  -38  2.510490e+00 -0.2097902098   7.855103e-02
## 43   -10   0.6   22 -6.115385e+00  1.7384615385  -1.346801e-01
## 44    -7   0.4  -23 -2.840909e+00 -0.0378787879   1.156506e-01
## 45     0  -5.5 -104 -4.108974e+00  3.0448717949   1.769442e-01
## 46     2   3.8  -32  1.096491e+00 -1.2061403509   2.277790e-01
## 47   -17   9.0   64 -7.045455e+00  0.8090909091  -7.790765e-02
## 48    -2  -5.6  -12  2.212121e+00 -0.2575757576   5.061676e-02
## 49   -13   4.4   19 -8.983333e+00  0.0166666667  -1.181383e-02
## 50    -5   2.9   27  2.116667e+00  0.9333333333   7.286775e-02
## 51     8  -1.9   13  1.357143e+00 -3.6428571429  -4.211280e-03
## 52    -8  -2.4    2 -3.589286e+00 -0.0803571429   4.865135e-02
## 53    -2   4.1  -13 -2.181287e+00 -1.6812865497  -1.983854e-01
## 54    10  -3.6  -29 -2.440476e+00  3.2976190476   1.997836e-02
## 55     3  -3.1   10  2.450000e+00 -0.1500000000  -2.898182e-02
## 56    -5   1.2   20 -7.723529e+00  1.3705882353  -4.586933e-02
## 57     7  -1.7  -36 -1.439394e-01  0.7045454545   3.009121e-02
## 58    -5  -0.7    4  2.902098e+00 -0.4965034965  -7.029762e-02
## 59     3   0.4  -10 -4.000000e-01 -0.6000000000   1.067890e-01
## 60    21   1.1   17  1.217157e+01  0.8529411765   2.235348e-01
## 61     5   8.2   24  9.500000e+00 -3.7666666667   1.029912e-01
## 62    -8   0.3   15 -9.584416e+00  1.7705627706  -6.240553e-02
## 63     3   2.7    3  1.666667e+00  0.1666666667   8.740981e-02
## 64   -11  -0.7  -22 -4.879808e+00 -0.4471153846  -2.659524e-01
## 65     8   5.0   -1  9.883117e+00 -0.8917748918   8.150338e-02
## 66    -5   2.0    1  3.115385e+00 -1.6013986014  -4.132616e-02
## 67    -8  -7.2  -23 -9.964286e+00 -0.1785714286  -2.221402e-01
## 68     5   3.4   18  1.036789e-01  0.9899665552   3.942909e-02
## 69    10  -2.9  -15  3.802198e+00  1.6483516484   1.748649e-02
## 70     0   5.4   41  2.057692e+00 -0.2051282051  -2.103656e-01
## 71     8   7.4  -11 -1.051282e+00  0.3692307692   9.291563e-02
## 72     2   3.8   45  3.000000e-01 -1.3000000000   9.488796e-02
```

```
## 73    15  -8.3   9  3.500000e+00 -2.0833333333       1.622914e-02
## 74    -7  -0.2  -16  4.707792e+00 -4.0259740260      -2.387876e-01
## 75    -5   0.3  -30 -1.379808e+00 -0.1971153846      -6.025695e-02
## 76     3   3.0  -56  1.588235e-01  1.1176470588       1.241555e-01
## 77    13   1.4  -59  5.414286e+00  2.6000000000       1.690956e-01
## 78     7   5.8   54 -3.926740e+00 -0.0512820513      -7.077459e-03
## 79    13  -8.4  -54  6.700000e+00 -0.4500000000      -2.669658e-02
## 80     2  -5.4  -98  7.032967e-01  0.0274725275       1.120796e-01
## 81     5   1.2   17 -7.072115e+00 -1.0817307692      -1.110612e-02
## 82    -3  -3.0   88 -7.287879e+00 -2.1060606061      -6.697330e-02
## 83     5   0.2   17  2.142857e+00 -0.3928571429       6.151996e-02
## 84    10  -4.9  -68  4.659341e+00  0.3131868132       2.413327e-02
## 85     0   1.8   31 -9.357143e+00  1.6571428571      -1.470238e-01
## 86    12   0.0   16 -1.284615e+00 -0.0615384615      -1.476190e-02
## 87   -33   6.9   47 -1.363675e+01  0.6452991453      -2.059698e-01
## 88    15   1.9   48  7.551282e+00  2.0512820513       3.112644e-03
## 89    23   6.4  -66  1.686316e+01 -0.8421052632       1.037550e-01
## 90     3   5.1   79  4.100000e+00  2.5000000000       1.353589e-01
## 91     3   0.9  -32  8.528846e+00 -2.1891025641       1.821735e-02
## 92     8  -4.0   35  2.412500e+00 -0.5375000000      -9.518849e-03
## 93   -15  -2.3   26 -5.938095e+00  0.3285714286      -2.180232e-01
## 94    10  -0.7  -23  5.816667e+00 -1.5000000000       1.963636e-01
## 95    -3   8.0   20 -6.825397e-01 -0.6269841270      -7.504726e-02
## 96   -20   6.3   57 -2.762500e+00 -3.1625000000      -1.121382e-01
## 97    -5   0.4   60 -2.142857e+00  0.9285714286      -9.538723e-02
## 98    -8   0.4   38 -2.050505e+00 -0.2727272727      -9.783272e-02
## 99     5  -2.5  -16  7.796053e-01  3.0789473684       5.485907e-02
## 100   15  -3.3  -21  2.500000e+00 -0.0194805195       1.562117e-01
## 101    0   0.3  -67  3.661905e+00  1.3809523810       1.355532e-01
## 102    2  -3.7   15 -6.367893e+00 -2.0401337793      -3.850078e-02
## 103   -8   0.3   46 -1.866667e+00 -0.7333333333      -1.229210e-01
## 104  -10   1.5   23 -7.323810e+00  0.4476190476      -1.079932e-02
## 105  -23   5.2   -7 -1.492105e+01 -1.4763157895      -2.266825e-01
## 106  -33  -3.1  -12 -1.870263e+01 -0.8868421053      -5.173697e-02
## 107   -5   3.3  -64  5.320000e+00 -1.3236363636       9.356373e-02
## 108   -2   0.9   17  3.798077e+00 -0.5192307692      -2.912571e-02
## 109   -5   1.4  -10  2.186813e+00 -2.2032967033      -5.722131e-02
## 110   20  -6.9  -27  5.569378e+00  0.4545454545       7.956937e-02
## 111   11  -4.1   19 -1.298246e-01  0.4807017544      -2.405945e-02
## 112  -10   4.9    3 -1.994652e+00  3.3823529412       2.346375e-02
## 113   -5  -0.5  -86 -4.254167e+00  0.4166666667       1.190343e-01
## 114  -10   4.0    4 -2.053571e-01  1.5089285714      -3.514739e-04
## 115    5  -5.2   -4  1.169345e+01  1.1071428571       6.482684e-02
## 116   10  -4.1  -13  1.411765e+00  0.2382352941      -1.377105e-01
## 117   10  -1.2  -31  5.217195e+00 -1.4909502262       2.213405e-01
## 118    5  -2.3   -6 -1.783333e+00  1.1666666667       8.964954e-02
## 119    8  -1.8    8  1.038889e+00 -3.7222222222       7.032204e-03
## 120  -10   2.1    8 -6.069853e+00 -0.5000000000      -8.249330e-03
## 121   -3  -1.1   -6 -9.666667e+00 -0.6797385621      -6.963790e-02
## 122   -5  -3.0   30 -3.678241e+00  0.6759259259      -2.136640e-01
## 123    3  -1.1   13 -1.912698e+00 -1.0000000000       5.952965e-02
## 124    3   3.7    4  9.218045e+00 -0.5075187970       1.728006e-01
## 125   -8   3.0  -12  5.062696e+00 -0.8166144201      -1.472794e-02
## 126    0  -4.0  -50 -1.946970e+00 -2.6060606061       3.668020e-02
## 127   -5   1.8    2  3.583333e+00  0.9880952381       1.050537e-01
## 128   -3   4.5   -3 -7.628571e+00 -0.3571428571       1.610376e-01
## 129  -17   5.5  -19 -5.904762e+00 -1.0000000000      -1.020465e-01
## 130  -13   0.1   15 -3.591346e+00  1.3990384615      -9.973907e-02
```

```
## 131    -17    4.4     38 -2.250000e-01 -2.3208333333           4.626673e-03
## 132      7    6.6     21 -1.054545e+00 -0.3515151515           1.682094e-01
## 133     13    0.0    -28  4.545455e-01 -0.9090909091          -6.681917e-02
## 134      5    0.8      8 -3.104167e+00  0.7500000000           1.844211e-02
## 135     -2    2.9    -47 -6.136364e-01  0.7196969697          -1.273449e-01
## 136      5   -4.7     43 -3.562500e+00 -3.0535714286          -9.468630e-02
## 137      2   -0.9    -31  2.483193e+00  3.0546218487           4.871370e-02
## 138     13    5.0    -31 -1.875000e+00 -1.7916666667          -4.788446e-02
## 139      8   -2.2    -17 -1.911765e+00  1.3480392157          -2.183235e-01
## 140     -5   -5.4     14 -1.645455e+00  2.1000000000           1.011830e-01
## 141      5    3.7     50 -3.816667e+00 -1.3166666667          -1.074026e-01
## 142      2    5.6     28 -2.403922e+00  0.9803921569          -8.146363e-02
## 143    -18    0.3     14  4.102564e-01  0.7264957265           6.305266e-02
## 144    -18    1.9     78 -6.250000e+00  1.2777777778           2.822090e-02
## 145    -15   -3.7    -20  1.131868e+00  1.1868131868           4.558338e-02
## 146     -8    8.1     57 -9.295322e+00 -0.2339181287          -1.176388e-01
## 147      5    0.8     -3 -2.672065e+00  0.7408906883           3.901995e-03
## 148      5   -6.9    -15  7.028409e+00  0.2556818182           1.721252e-01
## 149     15    3.7     19 -1.242857e+00 -1.1047619048          -6.091150e-02
## 150      8   -3.0     24  6.071429e-01 -1.1071428571           7.533382e-02
## 151     -3    3.8      4 -4.660131e+00  1.4542483660          -4.437270e-02
## 152     22   -3.1    -10  3.000000e+00  1.0769230769           1.298274e-02
## 153      8   -4.5     -3  2.125320e+00  0.0511508951          -5.275045e-02
## 154     -8    4.0     20  4.298551e+00  1.8000000000          -5.904802e-02
## 155      0   -0.8    -25  3.016043e+00  0.4438502674           6.896104e-02
## 156    -12   -7.1     -9 -6.383117e+00  0.6948051948          -1.144304e-01
## 157      8    2.6     59  3.533333e+00  1.2000000000          -5.787441e-03
## 158      3    0.8     -7 -4.956731e+00  1.1009615385          -9.323385e-02
## 159    -10    4.2      2 -1.000000e+00 -0.3142857143          -1.462531e-02
## 160     -2   -4.3    -24  5.746606e+00 -4.2352941176          -1.382097e-01
## 161     -7    6.1    -73 -2.377622e+00 -1.5559440559          -1.085433e-01
## 162      0    2.7     44  3.333333e-01 -0.7083333333          -2.749369e-02
## 163      8    7.6    -20 -8.455882e-02 -1.4375000000           2.099756e-01
## 164    -10    2.4    -16 -4.924242e+00  1.9015151515          -1.768296e-01
## 165     -8    6.3     65  1.073529e+00 -3.6323529412           2.899747e-02
## 166     -7    3.4    -24 -4.588235e+00 -0.7686274510           5.217274e-02
## 167     13   -3.8     14  4.655556e+00 -0.2000000000           1.014234e-01
## 168     13   -5.2    -41  3.878261e+00 -0.6115942029           1.600943e-02
## 169     15   -3.2     14 -3.650794e-01  0.7539682540          -4.446325e-02
## 170    -11   -0.7     60 -1.194444e+00  1.4027777778          -3.822421e-02
## 171      3   -1.9    -24  1.020468e+00  2.7368421053           1.113476e-01
## 172      3    1.1    -52  4.866667e+00 -1.0666666667           6.523159e-02
## 173     -2    2.8    -22 -2.249300e+00  0.0756302521           9.063959e-02
## 174     12   -3.5    -29  2.544643e+00 -0.1160714286           1.387898e-02
## 175      5    0.3    -24  4.111111e+00  0.3333333333           5.752508e-02
## 176      5    1.3    -24 -6.574371e+00 -1.2379862700          -2.712282e-02
## 177     -8   -3.7    -27 -1.742222e+00 -0.4400000000          -5.451787e-02
## 178     -8    2.3    -74 -4.900000e+00  0.3333333333          -4.881981e-02
## 179      5   -2.2    -18 -1.881944e+00  3.4027777778          -9.969286e-02
## 180     23   -7.8    -23  4.122807e+00  0.0372807018           1.222921e-01
## 181      8   -1.9      3  9.300000e-01 -3.5000000000          -2.174739e-02
## 182    -18   -3.0      3 -1.139946e+01 -0.5896739130          -8.904196e-02
## 183     -7    0.4    -16 -2.300654e+00  0.3104575163           4.917675e-02
## 184     -5    5.2      6 -1.050000e+01 -1.0745614035          -1.154365e-01
## 185     -8   -5.9    -48 -1.766917e+00 -1.4185463659          -1.271227e-01
## 186     -8    5.4    149 -1.047368e+00 -3.4263157895          -1.123945e-01
## 187     13   -2.9    -20  2.330952e+00  3.0285714286           1.328606e-01
## 188      3   -1.6     16  3.430556e+00  1.2083333333          -1.008292e-02
```

```
## 189      2  -6.3  -13  1.787273e+00   0.3745454545        1.244529e-01
## 190      0  -3.6  -10 -2.468182e+00  -0.0681818182       -5.178531e-02
## 191    -10   4.2   14 -1.253913e+00  -0.0713043478        8.433126e-02
## 192     -3  -2.6   -9 -3.092391e+00  -3.7137681159       -1.502704e-01
## 193     -3   6.4   31 -3.370629e+00  -1.0769230769        4.949151e-03
## 194      0   3.9  -52  4.962406e-01   1.5112781955       -3.277848e-02
## 195      7  -9.0  -29  5.145833e+00   0.8888888889        1.508146e-03
## 196    -13   6.2  -17 -2.247619e+00  -1.4952380952        6.992543e-03
## 197     -5   9.4   21 -1.600000e+00  -0.6000000000        8.801948e-02
## 198      0   2.9  -30 -1.394737e+00  -0.0756578947        2.981994e-02
## 199      3   1.6  -23  3.000000e+00  -0.2500000000        7.191558e-02
## 200      0   1.4  -68  4.102564e-01  -0.3782051282        7.418981e-02
## 201     -8  -2.1   25 -6.750000e-01   1.0125000000       -1.359713e-01
## 202     -8  -0.7    4 -3.991597e-01   1.6638655462       -5.077434e-02
## 203     -5  -1.0   15 -7.435897e-01   0.7564102564        1.299515e-01
## 204     -3   6.3  -19 -3.119048e+00   1.9404761905        1.164045e-01
## 205     10   6.4    6 -2.578005e+00  -1.5166240409        1.998205e-02
## 206    -15   4.0  -76 -1.715385e+00  -1.4538461538       -6.364489e-03
## 207     -2   1.5    2 -4.118421e+00   0.5493421053       -1.158564e-01
## 208      3  -3.1  -73  3.197628e+00   0.7944664032       -1.273164e-02
## 209      3   2.6  -69  1.416667e-01   1.8416666667        6.318373e-02
## 210     10  -5.9   52  5.730769e+00   1.1538461538        1.045442e-01
## 211      8  -3.1  -25  3.824176e+00  -1.5604395604       -4.054957e-02
## 212      2   4.4   26 -5.233333e+00   4.0166666667        1.209283e-01
## 213     -8   1.6   76 -1.061818e+01  -0.3000000000       -1.019202e-01
## 214      0  -4.9   49 -5.167421e+00  -2.4343891403       -1.029646e-01
## 215     -3   5.0   45 -7.013158e+00  -0.5973684211       -8.524639e-02
## 216      0  -4.5   -9  3.395833e+00  -0.6875000000        1.986820e-01
## 217     -5   2.5   18 -2.566667e-01  -2.4616666667       -3.471587e-02
## 218     10  -8.6   51  5.725926e+00   0.1629629630        5.399308e-02
## 219      5   0.4  -24  3.333333e+00   0.5714285714        1.012267e-01
## 220     -5   2.9   27  1.616667e+00   0.7611111111        3.337719e-02
## 221    -13   5.7  -16 -4.770000e+00  -1.4342857143       -2.392045e-02
## 222     -2   4.8  -35 -4.239927e+00   1.7509157509        1.835546e-03
## 223     -5   3.5  -57  3.630682e+00   0.9488636364        8.092126e-02
## 224    -10  -1.7   51 -6.205357e+00  -0.1220238095       -1.722463e-01
## 225    -13   1.6    8 -4.014049e+00  -3.5759897829       -6.431545e-02
## 226      0   4.1  -59  1.516043e+00   1.6550802139        1.324230e-01
## 227     -5   0.8    1 -3.139752e+00   2.0108695652        7.119376e-03
## 228     -7   3.2   -7 -3.299242e+00  -0.6287878788       -1.504656e-01
## 229     13  -5.8  -13  6.281579e+00  -0.3052631579        8.657156e-02
## 230     -7  -3.3   -9  3.813636e+00  -2.7681818182       -5.479354e-02
## 231     10  -0.3   -6  2.463158e+00   1.1236842105        1.185893e-01
## 232      2  -2.2   27 -1.085526e+00   0.7138157895       -4.498987e-02
## 233     -5   1.1    5  4.666667e-01   1.5222222222        3.002031e-02
## 234      0  -0.7  -28 -9.520697e-01  -0.4139433551        9.194952e-03
## 235     -6  -0.6   84 -3.514423e+00   0.6971153846       -7.919673e-02
## 236      0  -3.9   -1  3.835294e-01  -0.1058823529        7.419192e-02
## 237      0  -2.7   13 -1.192982e+00  -1.3596491228       -5.553071e-02
## 238      5  -7.8   60  2.371429e+00   0.0000000000        9.713809e-02
## 239    -10   5.9  -53 -3.568627e+00  -3.2372549020        1.451074e-01
## 240     -8  -2.0   17 -6.568627e-01   0.7156862745       -1.034581e-01
## 241    -12  -3.2   27 -1.271795e+00   1.0000000000       -1.005313e-03
## 242     -2  -3.8  -13  1.162465e+00   1.1260504202       -1.401382e-01
## 243     -3   1.3   19  1.211111e+00  -0.3000000000       -1.134641e-01
## 244     18   0.0  -27  1.196032e+01   0.8968253968        1.108992e-01
## 245      0  -0.6  -35  3.461538e-01  -0.4230769231       -7.057049e-02
## 246     -8   2.6   -8 -4.072398e-02  -1.0135746606       -5.946091e-02
```

```
## 247      -5    7.1   -39 -1.747283e+00 -1.5000000000      4.466210e-02
## 248      10    6.5   -19  5.229469e+00  0.0265700483      2.160642e-01
## 249      10   -7.0   -24 -2.180000e+00 -0.9100000000      3.127735e-02
## 250      -7    2.7    26  2.020000e+00  1.1500000000      6.523880e-02
## 251      13    2.7    15  1.219925e+00 -1.3270676692      4.210913e-03
## 252      13   -0.4   -12  1.166667e+00 -0.0925925926     -4.275362e-02
## 253     -10    2.7    89 -5.783333e+00  2.1916666667     -1.078019e-01
## 254       5   -0.8    27 -2.669565e+00  0.2891304348     -4.199817e-02
## 255       2    7.5   -17  5.331551e+00  1.9411764706      9.196672e-02
## 256      13    0.7    52  1.326165e-01 -0.1379928315     -6.267250e-03
## 257       0   -3.2   -42  4.366667e+00 -0.3416666667      2.563312e-02
## 258      -5   -1.9   115 -2.451724e+00 -3.1551724138     -1.718910e-01
## 259       8   -2.3    10 -1.737374e+00  1.0050505051     -1.385224e-01
## 260      18    2.6    -6  1.018687e+01 -0.0016835017      7.210283e-02
## 261       0   -0.3   -44 -2.666667e+00  1.6825396825      7.714509e-02
## 262      13    4.9    36  1.611538e+00 -0.0961538462      6.302214e-02
## 263     -10   -0.6    19 -2.783158e+00 -0.5094736842      4.723780e-02
## 264       0   -2.6    66 -6.750000e+00 -1.3333333333     -2.904129e-02
## 265     -15    5.1    12 -6.437500e+00 -1.4062500000      1.491127e-02
## 266       0    0.4    33 -2.098246e+00 -1.4087719298     -2.481358e-01
## 267       0   -0.6    26  2.740260e+00 -2.5194805195     -2.802806e-02
## 268       2   -6.9     5 -1.100952e+00 -0.4209523810     -1.556940e-02
## 269       2   -1.2   -23 -2.924074e+00 -0.8666666667     -1.402921e-01
## 270      13   -3.0    -7  8.553939e+00  0.9781818182     -1.379599e-02
## 271       0    3.5     7  1.920056e+00 -0.5161290323      4.566432e-02
## 272      -5    2.2   -37 -6.260989e+00 -1.5274725275     -3.030031e-02
## 273      13   -1.6    -8  3.722426e+00  3.2904411765      2.658195e-02
## 274      10   -4.2   -14  1.221675e+00  0.2305418719      2.082799e-03
## 275      -5    8.3    33 -3.324176e+00  0.3388278388     -3.140984e-02
## 276       0    2.2    -8 -2.378446e+00  0.8897243108      3.237775e-02
## 277       7    1.1    20 -5.180952e+00  0.4666666667      1.428688e-01
## 278       5   -4.6    28  2.315789e+00  0.8947368421     -1.110777e-01
## 279      13   -7.5   -51  5.018519e+00 -2.5185185185      3.760850e-02
## 280     -20    0.7   -52  1.280000e+00 -0.3400000000      5.334905e-02
## 281      -2   -3.8   -37  2.115385e+00 -0.4230769231     -5.131062e-02
## 282       5   -0.6   -61  5.431818e+00  0.5227272727      7.344336e-02
## 283       2   -2.1    50 -6.558442e+00 -0.5324675325     -6.312867e-03
## 284      15   -3.1   -25 -1.813187e-01  0.5494505495      1.226851e-01
## 285      -5    1.7    -3 -1.260870e+00 -0.3752012882      1.386750e-01
## 286     -11    1.5    29  8.190476e-01  0.1904761905     -1.189625e-01
## 287       3    1.1   -81  2.580952e+00  0.6476190476      8.834224e-02
## 288      15   -3.3   -20  1.758621e+00 -0.1896551724      1.664680e-01
## 289      -2    1.7   -30 -3.545455e+00  0.2727272727      5.549929e-02
## 290      15   -6.3    -4  4.071014e+00 -0.0043478261      4.909638e-02
## 291      12   -9.8    -1  2.800000e+00  1.6000000000     -2.971166e-02
## 292     -10    8.0    11 -2.450980e-01 -0.8137254902      4.366582e-02
## 293       3   -2.8   -44 -3.468182e+00  1.2909090909     -1.658080e-01
## 294       2    3.2   -16 -2.542017e+00 -0.1638655462     -1.489079e-01
## 295      17   -5.4    27  4.642857e+00  0.9523809524      7.126295e-02
## 296      10    0.0   -78  1.208333e+00  1.2166666667      1.345590e-01
## 297     -12    5.9    13  1.058824e+00 -0.7000000000      4.129998e-02
## 298     -13   -0.3    51 -6.724311e+00  1.5538847118     -2.045171e-01
## 299     -10    4.7   -65  5.362319e-01 -0.2318840580     -1.302499e-02
## 300     -23   -4.3    17 -1.547129e+01  1.1339712919     -4.601308e-02
## 301     -10    0.3   -32  1.111111e+00  0.5555555556     -6.174728e-02
## 302     -13    4.9    25 -2.681818e+00 -0.0909090909      7.294039e-02
## 303       5    2.3   -39 -2.338384e+00 -0.2878787879     -6.761875e-02
## 304      10   -2.7   -72  1.357143e+00 -1.4428571429      2.836903e-02
```

```
## 305    12  -3.6  -82   3.277778e+00  -0.3888888889       1.272761e-01
## 306    13  -4.3  -28   7.259091e+00  -0.4863636364       4.869358e-02
## 307    -5   5.1  -23  -4.078947e-01  -0.7192982456       1.385960e-02
## 308   -10   0.8  -16  -1.926877e+00  -0.2114624506       1.615919e-01
## 309    21   1.2  -65   1.063587e+01  -0.3731884058       8.119048e-02
## 310   -10   0.7   33  -3.267368e+00   0.9389473684      -1.410003e-01
## 311    23   0.0   -2   1.091130e+01   0.3426086957      -6.927094e-02
## 312    10   1.8  -93   7.101449e-01   0.5760869565      -8.571722e-02
## 313     8   2.5   -1   5.147436e+00  -0.2532051282       1.508492e-02
## 314     3  -4.3   99  -1.230769e+00  -0.1153846154      -4.259541e-02
## 315    -3   5.4  -24  -6.878788e-01  -0.1090909091      -9.170139e-02
## 316     7  -1.1   64  -2.436404e+00   0.4342105263      -1.314133e-01
## 317    -2   5.3  -59  -2.341667e+00   0.1833333333       7.013977e-02
## 318   -15   7.8   -1  -5.851852e+00  -0.5185185185      -8.996555e-02
## 319    -2   0.7  -21   5.993506e+00  -1.1082251082       9.543707e-02
## 320   -10  -6.3   -1   2.056522e+00   0.7760869565       4.121817e-02
## 321    13   2.0   -7   4.285714e-01  -2.1904761905       2.858577e-03
## 322   -13   4.9  -32  -4.644444e+00  -2.1777777778       1.051073e-01
## 323     2   3.8   38  -2.423645e+00   0.4433497537       3.942057e-02
## 324    23   8.9  -37   1.436739e+01  -1.9826086957       1.912275e-01
## 325   -20   5.0  -67  -1.199301e+00   0.2027972028       1.485639e-01
## 326   -15   3.6  -13  -5.698529e+00   0.3897058824      -9.019676e-02
## 327     0   2.9   33  -6.061706e-01   2.0290381125      -8.762241e-03
## 328   -10   0.5   -5   6.898148e-01  -0.5555555556      -6.365206e-02
## 329    -3  -2.2   57   2.083333e-01  -0.3750000000       9.284679e-02
## 330    -7  -3.2   36  -4.755435e+00   1.8260869565      -9.788624e-02
## 331    -8   6.3   46  -8.150735e+00  -2.1838235294       1.211950e-01
## 332    10  -4.1   30  -1.200000e+00  -1.1250000000      -5.654358e-02
## 333     7  -0.1  -45  -8.000000e-01  -0.8083333333       1.659477e-01
## 334    -5   2.2  -38  -4.350000e-01  -0.9475000000       4.178446e-02
## 335     7  -6.2   21   5.494286e+00   0.5457142857       3.787001e-02
## 336    -8   3.4   71  -7.033445e+00  -1.4147157191      -9.940266e-03
## 337     0   7.7   47  -6.000000e+00  -0.3284313725      -9.326902e-02
## 338    -8   3.3  -16  -4.819820e+00  -1.2234234234       1.125740e-01
## 339    15  -2.4  -41   4.510753e+00  -0.2795698925       2.605873e-01
## 340   -20  -4.7  -27  -1.399621e+01   2.2689393939      -3.620550e-02
## 341     5  -0.5   68   2.796296e+00  -0.0740740741      -7.735714e-02
## 342     3  -3.8   -1   2.700000e+00   0.0000000000      -1.513550e-02
## 343   -10  -1.0   28  -3.406593e-01  -0.9807692308      -1.384513e-01
## 344     0   1.9   29  -6.769231e+00   0.6461538462      -1.631227e-01
## 345    -8   2.5   24  -3.347222e+00  -2.7361111111       6.379920e-02
## 346    18   2.6  -40   1.297321e+01   1.5625000000       1.447892e-01
## 347     2   3.6  -22   1.415751e+00  -0.8113553114      -2.024341e-02
## 348     2  -7.0    2  -6.393678e-01  -0.5603448276       1.346175e-02
## 349    -8  -5.9  -34   3.181159e+00   1.1159420290      -4.204327e-02
## 350   -23   6.5    1  -6.067434e+00  -1.0756578947      -5.434205e-02
## 351    -5   2.5   21   5.672269e-02  -2.0378151261      -3.822594e-02
## 352     2   1.4   -8  -4.576196e+00   0.8909899889       7.712529e-02
## 353     5  -3.3  -21   6.919028e+00   2.0971659919       1.964851e-02
## 354   -21  -1.1  -16  -1.377308e+01  -1.1946607341      -5.234744e-02
## 355    -5   7.1  -33  -2.339394e+00  -1.3030303030      -2.227357e-02
## 356    15  -5.2   -8   6.067476e+00   1.0053981107      -3.738648e-02
## 357     0  -4.2    5   2.624138e+00  -0.7114942529      -6.640504e-02
## 358     8  -0.3   15   6.843750e+00   3.3187500000      -1.360945e-01
## 359    10   0.6  -11   5.170652e+00   0.1913043478       1.774212e-02
## 360    -2   0.8   32   5.232649e+00   0.3724340176      -1.048861e-01
## 361     0  -4.8    2  -4.191176e+00  -0.1519607843      -6.188417e-03
## 362    26  -4.2  -14   1.121667e+01   0.1000000000       1.592019e-01
```

24

```
## 363       10    0.4      2  9.483871e+00   0.3225806452        -2.635215e-02
## 364        0   -1.4      4  4.791667e-01  -1.0000000000        -3.656608e-02
## 365        3   -4.5    -11  2.826923e+00  -0.6971153846         1.568085e-02
## 366       15   -8.1    -50  6.085470e+00   0.5128205128         1.003445e-02
## 367        7    5.7    -27  1.564706e+00  -1.2000000000         6.931952e-02
## 368      -13    2.1     65 -8.119826e+00  -0.3660130719        -1.209220e-01
## 369       18   -4.1    -64  9.937500e+00   1.1964285714         1.416787e-01
## 370       13   -3.5     -9  7.411638e+00   0.3028017241         7.525961e-02
## 371       -3   -4.0     14 -4.046440e+00  -0.7275541796        -1.146756e-01
## 372       12   -3.4    -15 -1.039474e+00   2.7105263158         1.006221e-02
## 373       -2    6.0    -15  1.872222e+00  -0.2444444444         8.833501e-02
## 374        5   -2.0      1  2.201754e+00   0.8157894737         4.474043e-02
## 375       -3   -3.6     19 -1.527273e+00  -0.1772727273        -8.050769e-02
## 376       -8    4.5      3 -3.500000e+00  -0.2142857143         6.383606e-02
## 377       10   -1.5     14 -1.854545e-01  -0.3927272727        -1.610195e-03
## 378       -5    6.6    -11  1.055336e+00  -0.6521739130         5.494356e-02
## 379       25   -3.6    -53  7.048611e+00   0.7662037037         1.517684e-01
## 380        5    2.4     11 -1.020000e+00   0.4200000000        -1.343060e-02
## 381      -10    3.3    -12 -1.278388e+00  -1.1611721612         5.356112e-02
## 382       -8    4.9     50 -5.377976e+00  -1.8392857143         3.953907e-02
## 383        5    1.0     -7  1.349091e+00  -0.7763636364         3.378116e-02
## 384        2   -0.8     -9  1.932609e+00   3.2239130435        -9.688621e-02
## 385        3   -2.9     17  2.670619e+00   0.5415019763        -4.404596e-02
## 386       -2   -4.1    -32  3.549107e+00  -1.9895833333        -8.783743e-02
## 387       15   -2.3      5  2.754986e+00   0.2706552707         2.573562e-02
## 388        0   -0.7    -31  3.888889e-01  -0.3458781362        -4.349088e-02
## 389        3   -1.9      4  3.657143e+00  -0.4095238095        -1.563286e-02
## 390      -13    0.1      5  1.166667e+00  -0.3664772727        -1.108410e-01
## 391        8   -2.7    -58  4.761905e-01   1.9678571429         1.391649e-02
## 392      -17    5.4     -8 -4.341629e+00  -1.1380090498        -8.829643e-02
## 393       -8    1.9    -10 -4.082789e+00   0.1960784314         1.992770e-03
## 394       -5    5.1     48 -7.099567e+00  -3.7316017316         6.452651e-02
## 395        5   -1.9     30 -6.714514e-01   0.6443381180         1.432677e-01
## 396        5   -2.2     57  1.388889e+00  -2.3125000000        -1.710210e-01
## 397       -3   -4.9      5  3.646465e+00   1.9427609428         2.360163e-02
## 398        0    3.5    -50 -4.878378e-01   1.3391891892        -6.965574e-03
## 399       -3   -2.6     59  4.586466e-01  -1.3101503759        -1.430082e-02
## 400       -2    2.0     70 -1.840000e+00   0.9257142857        -2.775323e-02
## 401        5    0.6     27 -2.876623e+00   0.0454545455         6.608431e-02
## 402       -3    1.6     51 -4.048733e+00  -0.7270955166        -1.500446e-01
## 403      -23    7.8     78 -5.121212e+00  -0.3636363636        -7.037286e-02
## 404       -5   -1.3     -6 -6.638655e-01   0.6442577031         1.729759e-01
## 405        5   -6.7    -10  3.967742e+00  -0.6479663394         9.731251e-02
## 406        5   -0.9    -41  2.129310e+00  -0.6965517241        -1.568154e-02
## 407       13   -3.8     15  3.607143e+00  -0.3452380952         1.180874e-01
## 408        3   -1.1    -61  9.266667e+00  -0.7000000000         1.158424e-01
## 409        8    3.9    -34  3.452941e+00  -0.6666666667         1.286394e-01
## 410        0    0.7     20  3.643939e+00  -2.3181818182        -3.268746e-02
## 411       -3   -5.9     37  2.490969e+00   1.8440065681         7.352785e-02
## 412       -3   -6.1     20  2.003623e+00   2.0471014493        -1.214379e-02
## 413       18   -3.3    -84  1.500000e+00  -0.7202380952        -4.585115e-03
## 414       -3   -0.8     70  1.397436e+00  -0.7417582418        -1.311201e-01
## 415       -7    2.8     15 -2.421176e+00   0.2494117647        -1.769871e-01
## 416        7   -4.1    -53  1.363636e-01  -0.3909090909        -2.145054e-02
## 417        7  -10.9    -20  2.804545e+00   0.8454545455         4.013163e-02
## 418      -13   -4.4     62 -1.042982e+01   1.2631578947        -9.934363e-02
## 419        5    1.4    -55 -3.418764e+00   0.4851258581         5.495596e-02
## 420       -2   -7.7    -19 -2.958333e+00  -0.1770833333        -6.842971e-02
```

```
## 421    -8   6.0  -13 -1.107143e+00 -0.8809523810   -4.775679e-02
## 422   -10   5.2  -19  2.093333e+00  1.0533333333    5.667064e-03
## 423     0  -2.2   69 -3.679487e+00  1.2756410256   -1.254648e-01
## 424    -7   0.9  -50  2.928571e+00 -1.7214285714    1.443030e-01
## 425    15   0.7  -77  6.339912e+00  0.7192982456    5.906176e-02
## 426   -13   3.1   74 -3.847339e+00  0.0210084034   -6.379815e-02
## 427     3  -5.4   19  9.015152e-01 -0.3484848485    9.510148e-02
## 428     5  -3.3  -95  1.148541e+00 -2.1061007958    1.188017e-01
## 429     0  -7.7  -50  6.267399e+00  0.3608058608    8.482102e-02
## 430     7  -0.8   57 -3.352381e+00  0.2857142857    4.643088e-02
## 431   -21   3.7   49 -1.173737e+01  0.8080808081   -1.014751e-01
## 432     2  -5.4   67  3.166667e+00 -0.0555555556   -7.295229e-02
## 433    -5   5.3  -10 -4.571429e+00  1.6000000000   -1.983726e-02
## 434    10   1.7   73  4.564103e+00  0.7380952381   -5.922618e-02
## 435     8  -2.7  -58  6.115385e-01  1.8192307692    2.246648e-03
## 436    12  -0.4   31 -1.505247e+00  0.1409295352   -5.055112e-02
## 437    -3  -8.3   43 -1.864035e+00 -1.8070175439   -7.192440e-02
## 438    -5  -2.7   81 -4.500000e+00  0.5000000000   -1.589333e-01
## 439    -8   5.5  -39 -1.275000e+00  1.3416666667    6.380227e-03
## 440     3   1.1   42  2.567778e+00  0.5900000000   -9.376694e-02
## 441    -5  -2.1   68 -3.324138e+00  1.8586206897   -2.647636e-01
## 442    10  -1.4  -45  1.344099e+00 -0.5689440994    6.679226e-03
## 443    18  -3.7  -27  4.850538e+00  0.2806451613    1.221237e-01
## 444    -7   1.9   26 -1.755051e+00 -0.2777777778   -8.509887e-02
## 445    10   0.4    2  9.454248e+00  0.1895424837   -3.879128e-02
## 446   -10   3.7  -27 -3.271429e+00  0.0166666667    4.292478e-02
## 447     5  -3.5   40 -1.763547e+00 -1.1888341544   -9.294400e-02
## 448    -8  -0.9  -16 -3.497820e+00 -0.9164244186    2.632764e-02
## 449     0   2.6  -80 -5.212903e+00 -1.3000000000   -1.820329e-01
## 450   -10  -5.8  -34 -1.530220e+00  3.7307692308    2.352719e-03
## 451   -10   0.1   26 -1.308943e-01 -1.8333333333   -4.633573e-02
## 452     3   3.2  -35  8.773389e-01 -0.8586278586   -6.296496e-02
## 453     5   8.8  -13  7.098039e+00 -1.0210084034    1.028604e-01
## 454     5  -5.3  -31 -2.255068e+00 -1.2922297297    1.257903e-01
## 455    -2  -3.6   23 -1.019048e+00  0.9452380952    4.620672e-02
## 456     5  -4.1    5 -1.353047e+00 -0.3163082437   -1.856031e-02
## 457    -6  -1.6  -13  1.259694e+00  0.4359576968   -8.570289e-02
## 458    -5   2.8    4 -5.936782e+00 -0.2252873563   -6.036711e-03
## 459    -5   4.6   95  3.109718e+00 -2.8307210031    1.306856e-02
## 460    -5  -1.8   12  2.957393e+00 -2.4724310777   -6.553778e-02
## 461    -3   1.6  -27 -3.862406e+00 -1.4511278195    7.563762e-02
## 462     8  -3.0    6  1.863147e+00  1.3803879310   -4.464268e-03
## 463    13  -3.3    3  3.101754e+00  0.0438596491    7.614550e-02
## 464    -5   6.0   24  2.141176e+00 -2.8235294118    4.949518e-03
## 465    -2   0.8   19  5.615385e+00  0.5384615385   -1.168046e-01
## 466    -3   1.1  -10  1.920746e+00  0.5524475524   -3.775079e-03
## 467     2  -5.1  -25 -3.117857e+00 -1.0571428571    4.693671e-02
## 468     8   1.8    5  6.624821e+00  1.6434720230    3.073466e-02
## 469     0   0.0  -63  3.279167e+00 -0.8875000000    7.991238e-02
## 470   -17   0.6   -7 -2.542105e+00 -1.0026315789   -5.616974e-02
## 471   -12   4.0   49 -1.228571e+00 -1.4857142857    1.357152e-02
## 472   -15   5.1    2 -3.736264e-01  2.6208791209    5.123567e-02
## 473    -3  -0.8   20  9.115789e-01 -1.0421052632   -1.352795e-02
## 474    -5   2.7    1 -4.260289e+00  0.7374860957   -8.962580e-02
## 475    -2  -1.3  -15 -5.291060e-01  0.1704781705   -2.218302e-02
## 476    -8  -3.1   14 -5.166667e+00 -1.3809523810   -7.386905e-02
## 477    -3  -1.5  -51 -3.395722e-01  0.3021390374   -8.124764e-02
## 478    -3  -0.2   15  1.191919e+00  3.1919191919   -8.603973e-02
```

```
## 479    5    7.2   -30   2.931579e+00  -0.9000000000      7.498663e-02
## 480    3    0.1    -5   3.621212e+00  -1.5959595960     -8.985071e-02
## 481   10   -6.5    83  -6.444444e-01   0.3481481481     -1.858736e-01
## 482   -7   -0.1   -61   1.774936e+00  -2.2020460358      1.774886e-02
## 483    0   -2.3    65  -3.811060e+00   1.1059907834     -1.820855e-01
## 484    7    2.1    26  -7.812500e-01   0.9375000000     -1.529158e-02
## 485   -8    1.9     2  -2.673611e-01  -0.0219907407     -3.323568e-02
## 486   13   -7.5    12   3.234300e+00  -1.2149758454     -6.498554e-03
## 487   10   -1.8    34  -2.418182e+00  -0.0545454545      8.009689e-02
## 488   -7    6.3  -129   1.505068e+00  -0.3462837838      1.322613e-01
## 489    0    0.1   -47  -3.574074e+00   0.0185185185      5.854701e-02
## 490    7    2.2   -33   1.789773e+00  -0.9905303030      1.088881e-01
## 491    5   -7.9  -111  -1.628571e+00  -1.2380952381      8.196209e-02
## 492    0    3.7   -34   1.428571e-01   0.2738095238      1.326391e-02
## 493  -10    4.9   -44   1.631579e+00  -1.8097165992     -3.103225e-02
## 494   18   -4.4    57   2.890110e+00  -0.8351648352     -5.330412e-02
## 495   12   -6.2    93  -3.422269e+00   0.5756302521     -7.974075e-02
## 496    0   -2.6    39  -3.155695e-01   1.0417972832     -1.285780e-01
## 497   -2   -0.3    20   2.915517e+00  -0.3810344828      1.133787e-03
## 498    0    5.9    32   4.772727e+00   1.3253588517      4.274546e-04
## 499    5   -0.4   -30   1.747899e+00  -1.0392156863      1.372027e-01
## 500   13  -10.4   -62   7.360000e+00   1.5800000000      1.694387e-04
## 501    8    2.3    48   3.558313e+00   0.2506203474     -2.227091e-01
## 502  -15    5.0    47  -4.568238e+00  -0.9354838710     -4.849110e-02
## 503   -2    9.0    43   2.365217e+00   0.7217391304     -2.947877e-02
## 504   -5    5.4    93   4.466501e-01  -0.3151364764     -4.017823e-02
## 505    3   -0.3    71   3.138311e+00  -0.0979192166     -8.684656e-02
## 506   -3   -0.3     7  -4.481481e+00   0.2222222222     -9.885304e-02
## 507   -2    5.4    86   8.869565e-01  -0.3791304348     -2.787097e-02
## 508    8   -8.4   -35  -1.520050e+00  -0.5576441103     -4.850589e-02
## 509   13    2.6   -56   1.047059e+01  -1.7647058824      1.940058e-01
## 510    8   -1.5   -61   7.166667e+00   0.2604166667      9.068388e-02
## 511    3   -6.8   -71  -3.062500e+00   3.1250000000      8.861979e-02
## 512   -3   -4.7   -30  -6.756494e+00  -1.6915584416     -1.570622e-02
## 513   -2   -1.6    43   2.272727e-01  -0.7007575758     -8.271661e-02
## 514    5    9.0    19  -5.541126e-01   0.0519480519      2.564103e-03
## 515  -13    7.2    51  -4.372549e+00  -0.8181818182     -9.121231e-02
## 516    0   -0.3    59  -4.027586e-01  -0.7765517241     -1.196024e-01
## 517  -18   11.5    59  -8.867647e+00   0.0098039216     -8.151247e-02
## 518  -10    5.8    67  -1.503297e+00  -0.8186813187     -1.020765e-01
## 519    7    3.2    35  -4.125000e+00   2.4500000000     -4.814523e-02
## 520    5   -2.7     3  -1.095238e+00   0.1595238095     -1.146320e-01
## 521   -5    0.4   -25  -2.426190e+00   1.5095238095     -1.562404e-01
## 522   -5   -3.6    13   6.200000e-01   0.7914285714      3.594065e-02
## 523    8   -3.7    17   3.349206e+00   1.0555555556     -1.558635e-01
## 524   -3   -2.5    31   1.622378e+00   0.2307692308     -1.018681e-02
## 525    3   -6.2    -4  -2.833333e-01  -2.1904761905      5.814302e-03
## 526    0    2.0    72   7.642857e-01  -0.8809523810     -1.038642e-02
## 527   28   -1.1    34   5.642424e+00  -0.5969696970     -5.477557e-02
## 528   -7    0.1   -16   4.719608e+00  -0.0509803922     -2.566878e-02
## 529    0    6.2    80   2.463636e+00  -0.0333333333      1.076720e-02
## 530   -3    7.0    24  -4.402778e+00  -0.0138888889     -6.057511e-02
## 531    8   -2.6     3   1.682692e-01   0.6923076923      9.011267e-02
## 532  -10    1.4    13  -2.842105e+00   0.7391304348     -1.655299e-01
## 533    8    4.7   -50   9.670455e+00  -0.5227272727      1.404737e-01
## 534    5  -11.3     7   4.216783e+00   0.8671328671      1.188685e-02
## 535   -5   -1.8    17  -3.021645e+00  -1.3636363636     -2.994079e-02
## 536    5   -1.1    56  -2.022067e+00  -0.5180023229      1.961188e-02
```

27

```
## 537     -3  -2.4   39 -5.407407e-01  1.3851851852    1.557925e-02
## 538     -5  -1.0  -31  8.063158e-01 -1.4084210526   -1.180586e-01
## 539     10   3.3  -22  3.000000e+00  0.3463268366    5.439934e-02
## 540      7  -6.5  -36  2.212276e+00  0.5703324808   -7.114352e-02
## 541    -10  -4.0   42 -6.348974e-01  1.2800586510   -1.243250e-02
## 542      0   5.8   61 -8.728070e-01  0.1535087719    9.257680e-02
## 543     -5   0.0   30 -6.401316e+00  0.0723684211   -5.103932e-02
## 544      0  -3.4  -10 -3.123529e+00  0.5705882353   -1.090408e-02
## 545     -5  -1.9  -14 -1.954545e+00 -1.3311688312    9.652463e-02
## 546      0   5.3   35 -4.533333e+00  0.5333333333   -8.865792e-02
## 547      7   0.2   19 -5.596154e+00  1.9615384615    3.757670e-02
## 548     -3  -4.8  -37  1.866667e-01 -0.0111111111   -5.438790e-02
## 549      3   1.0   -7  1.477273e+00 -1.9772727273   -4.462999e-02
## 550     -8   5.5    4  3.354978e-01 -0.2770562771    7.491760e-02
## 551     -3   1.4   -3  1.716667e+00  0.0395833333    7.963564e-02
## 552      2  -3.0    3 -2.212121e+00  0.3763955343   -6.685656e-03
## 553     13  -1.5   20 -4.500000e-01 -0.1195652174   -4.397124e-02
## 554      0  -3.3   33  2.262187e+00 -2.0553359684    8.746726e-02
## 555     10   8.5   -1  6.651584e-01  0.4728506787    3.204179e-02
## 556      2   3.0    5  5.949891e+00 -0.3616557734    1.684387e-01
## 557      0  -2.2   58 -4.176190e+00  1.1587301587   -1.628153e-01
## 558      7  -6.6  -41  2.761905e+00  0.3988095238   -3.890150e-03
## 559     -3  -2.7  -47 -2.119231e+00  0.1653846154   -1.279146e-01
## 560    -13   4.4   62 -5.035294e+00 -1.6294117647   -8.606075e-02
## 561    -11  -1.8   68 -1.750000e+00  1.7250000000   -1.480119e-01
## 562     -5   1.5  -47  4.086022e-01  1.0725806452    1.196364e-01
## 563    -25   5.0  -90 -3.328947e+00 -0.2072368421    1.659765e-01
## 564    -20   6.4   65 -2.047619e+00 -2.8225108225   -1.098975e-01
## 565     -2  -1.7   46  5.614815e+00  3.1185185185    1.214430e-02
## 566      8  -1.0   65  1.294643e-01  2.0625000000   -2.144782e-04
## 567      5   0.7  -32  1.967692e+00  1.6538461538   -1.436192e-01
## 568     -2   1.8  -27 -1.291667e+00 -1.1325757576   -5.958244e-02
## 569      8  -5.0  -47  2.596154e+00 -0.1153846154    7.121077e-02
## 570     -8   1.7   38 -1.839286e+00  1.3392857143   -3.878265e-02
## 571    -10  -2.3  -23  3.045882e+00  1.3552941176   -2.022782e-02
## 572     -5   1.6  -86  3.200000e+00 -1.7047619048    3.102726e-01
## 573    -10  -3.5   71 -2.458038e+00  0.1152679474   -1.582336e-01
## 574     -7  -1.5  -51  3.915751e+00 -0.4542124542    1.235723e-02
## 575      5   7.1   18 -3.939394e+00  0.9494949495   -7.718723e-02
## 576     -2   0.4  -46 -4.590909e+00 -0.9242424242   -1.105124e-01
## 577      5  -1.7  -26  4.694444e+00  0.8472222222    1.292513e-01
## 578     -8  -7.2   28 -6.740196e-01  0.3431372549    3.662800e-03
## 579    -10   3.7   86 -7.196154e+00 -1.0769230769   -4.389407e-02
## 580     10  -1.9  -66  3.171429e+00  1.0857142857    6.590587e-02
## 581     12  -1.1   -2  1.305714e+00  0.3771428571    4.644958e-02
## 582     13  -7.0  -68  3.972222e+00  0.5833333333    1.940649e-02
## 583      2  -2.4   48  1.705686e-01 -0.2463768116    3.784208e-02
## 584      3  -1.5  -36  2.243156e+00  0.8808373591   -1.364319e-02
## 585      5  -0.2   -2 -1.858238e+00  1.8173690932   -3.977280e-02
## 586      8   2.7  -51  1.531250e+00 -0.6770833333    8.888273e-02
## 587      5  -0.8   -5  4.080000e+00  0.1965217391   -5.336015e-02
## 588      0  -3.8  -35  4.500000e+00 -0.8666666667   -2.729613e-02
## 589     10  -1.7   -3  2.157037e+00  0.4162962963   -9.816846e-03
## 590     10  -4.7   26  1.987546e+00  0.3721611722    7.225457e-03
## 591     18  -4.3  -58 -1.577003e+00  0.2926829268    1.358184e-01
## 592     -8  10.4   15 -3.547500e+00  1.3225000000   -3.167573e-02
## 593    -18   6.1  -93 -4.250000e+00 -0.2500000000    4.911844e-02
## 594      0   6.1   94  4.327206e+00  0.3602941176   -9.008457e-02
```

```
## 595      5   -7.0    51 -7.791304e-01  1.3982608696   -7.482583e-02
## 596      2   -1.8   -14 -4.868132e+00  0.4203296703    6.127219e-02
## 597     10   -1.6    49  4.467532e-01  1.7714285714    1.047217e-01
## 598     -2   -2.2   -30  3.106322e+00 -1.3706896552    3.868793e-02
## 599     -5    9.1    21  4.761905e-02 -1.3571428571   -5.977973e-02
## 600      5   -4.2    39 -2.041667e+00  0.9145833333    8.715961e-03
## 601     -8   -3.5    33 -1.391447e+00 -0.2154605263    1.056213e-02
## 602     -5    5.8    63 -4.719298e+00 -0.2553606238    2.780772e-03
## 603     -3   -1.7    81 -5.177350e+00 -0.4273504274   -1.221051e-01
## 604      3    0.7   -20 -4.702381e-01  1.0833333333    2.194077e-02
## 605      5    1.1    53  2.411111e+00  0.7111111111   -1.226494e-02
## 606     13    3.4   -30  9.474359e+00  1.2756410256    1.022924e-01
## 607      5    1.8    12 -2.934289e+00  1.8303464755   -8.140148e-02
## 608     -5    0.8  -150 -2.639130e+00 -2.2739130435    4.271855e-02
## 609    -12    3.7    84 -3.561331e+00  0.4137214137   -1.344448e-01
## 610      5   -0.3    14  4.256818e+00  0.4984848485    3.282302e-02
## 611      8    1.0   -57  1.827839e+00  1.0549450549    1.208669e-01
## 612     -2   -6.0    60  4.137931e+00  1.3479623824   -1.012350e-01
## 613     13   -6.5   -28 -5.546218e-02  2.7310924370    4.698516e-02
## 614    -13    5.5     6 -3.976190e+00 -2.1904761905    5.376028e-02
## 615     10   -0.1   -23 -1.587302e-01 -0.6111111111    8.574754e-02
## 616     10    1.2   -28  6.895646e+00 -1.1178678679    1.486746e-01
## 617      7    5.5   -40  3.343030e+00 -1.3575757576    8.608665e-02
## 618     13   -7.2   -42  3.861842e+00  0.8157894737    1.151940e-01
## 619     -5   -3.4    18 -2.613087e+00 -0.2347083926   -1.003507e-01
## 620    -13    4.9   -44 -4.677661e+00 -2.0442278861    3.411029e-02
## 621      8   -6.7   -17  4.759259e+00 -2.1037037037   -1.206311e-02
## 622      0    2.2    40  4.441489e+00  1.0658244681   -5.156666e-02
## 623     -2    0.2    14 -1.701540e+00  0.9653401797   -1.143940e-01
## 624      0    1.8   -85 -3.143411e+00 -0.4844961240    1.534724e-01
## 625      8   -6.3   -23 -1.676667e+00  2.7388888889    6.326071e-02
## 626      8    1.0   -75  7.842105e+00 -1.8421052632    1.580370e-01
## 627      3   -3.4   -30  4.352941e+00 -0.6764705882    8.048231e-02
## 628      8   -0.4    17  2.331565e+00  0.4836427940    4.528363e-02
## 629     18   -2.4    -5  6.830347e+00  1.5694288914    6.465173e-02
## 630      0   -4.4   -65 -2.545455e+00 -2.3030303030    1.983914e-02
## 631     11   -4.1    11  2.954545e-01  0.9219114219   -1.493429e-02
## 632     -8    3.8    79  1.933784e+00 -2.1432432432   -5.513001e-02
## 633      2   -2.0    -6 -1.623810e+00 -0.1380952381   -6.493582e-03
## 634     -8   -1.8    -5 -6.590267e+00 -1.8529565672   -6.791963e-02
## 635      8    1.7    10  4.167251e+00 -2.6953216374    6.060739e-02
## 636     -5    0.9    -3 -6.107097e+00 -1.0593548387   -7.049531e-03
## 637    -11   -0.7   -12 -5.140665e+00 -1.1057118500   -7.227947e-02
## 638     15   -3.6   -12  7.459248e+00 -1.3871473354    1.070302e-01
## 639      8    3.2   -28  6.550000e+00  0.3166666667    6.763584e-02
## 640     20   -0.9    14  8.645688e+00 -0.3438228438   -2.271563e-02
## 641      3   -1.5   -38  3.658333e+00  1.1333333333    1.644529e-02
## 642      0    2.1   -11  1.031746e-01 -0.1216931217   -3.053435e-02
## 643      8   -0.4     7 -2.202233e+00 -1.1091811414   -2.470029e-02
## 644     13    0.1   -29  2.259420e+00 -1.7608695652    6.322248e-02
## 645      0   -8.6     2 -2.142857e-02  0.1071428571   -7.360569e-02
## 646      5    3.9   -13  1.106061e+00  0.7575757576    7.150744e-02
## 647    -12    0.0   -21  1.454054e+00 -0.0882882883   -6.526226e-02
## 648     -8   -0.8    28 -2.077143e+00  0.9414285714   -7.717276e-03
## 649     -2    0.8   -36  1.547414e+00 -2.7909482759    1.646791e-03
## 650     10   -3.4     8  3.816450e+00  0.0242424242   -1.411542e-02
## 651     -7   -6.6    -2  1.644410e+00  1.1335403727   -8.248904e-02
## 652     -3   -1.7   102 -1.897778e+00  0.6977777778   -4.202060e-02
```

```
## 653       7   -4.2    82 -3.695238e-01   0.3142857143        -3.156502e-02
## 654       2   -2.6     7  1.624521e+00   1.3869731801        -6.584482e-02
## 655      10   -1.9   -32 -5.333333e-01  -1.8250000000        -1.283788e-01
## 656       3   -5.1    74  2.893519e-01   3.1620370370        -1.404163e-01
## 657       3   -2.3    16  2.059289e+00  -0.2806324111        -2.913007e-02
## 658       2   -0.4    17  9.695946e-01  -0.8412162162         1.779775e-01
## 659       2    3.7    40 -2.344828e+00  -0.0724137931         4.691176e-02
## 660       2    4.1    43 -4.215947e+00   0.5681063123         5.723510e-02
## 661      -5    5.2   -22 -3.476471e+00  -0.7156862745        -1.376169e-01
## 662      -5    5.2   -46 -1.298701e+00  -1.3766233766        -6.328121e-02
## 663     -15   -1.2   -24  2.034483e+00   0.2787356322         6.932004e-02
## 664      -3    3.5    67 -2.568182e+00  -0.9545454545        -1.619930e-02
## 665       7   -6.3   135 -2.109023e+00   0.2318295739        -1.297703e-01
## 666      -3    0.4    71 -5.866667e+00  -1.0747967480        -1.559391e-01
## 667       0    3.9   -22 -3.707692e-01   0.6307692308         4.167926e-03
## 668      -5    3.7   -52 -1.496599e+00  -1.1989795918         1.231751e-01
## 669       3   -2.9   -39  5.931373e+00   2.1137254902        -1.417934e-01
## 670       2   -1.2    52  6.428571e-01   2.6238095238         1.502985e-01
## 671      -8    1.5    26 -8.260870e-01  -1.8318840580        -1.863805e-01
## 672      -8    0.5    15 -2.162791e+00   0.0754242615        -3.043602e-02
## 673     -18    2.3     7 -7.251429e+00  -1.8209523810        -4.097690e-02
## 674      -8    1.1    71 -5.341697e+00  -1.6738351254         7.213904e-02
## 675       3   -3.3   -16  3.805556e+00  -0.5333333333         1.126211e-01
## 676       8    0.8    -9 -2.024854e+00  -1.3611111111        -1.061245e-01
## 677     -10   -1.1    15 -2.266936e+00  -1.5647118301        -1.273685e-01
## 678      18   -5.8   -13  6.173077e+00   1.9246794872        -2.180789e-02
## 679      -5    6.9   -13 -7.163462e-01  -1.9158653846         1.064403e-01
## 680       5    0.0    73 -1.250000e+00  -0.9000000000        -5.970141e-03
## 681      -3    1.3    21 -2.800654e+00  -3.6993464052         1.437414e-02
## 682      10    2.2    -8 -7.333333e-02  -0.2355555556         1.515905e-01
## 683     -23    1.9   -51 -2.457219e+00  -0.3877005348         1.213212e-01
## 684     -10    2.5     4 -2.291317e+00  -3.0168067227        -2.707422e-02
## 685       5   -6.0   -38  4.727273e+00   1.2690909091         2.313435e-02
## 686       2    6.3   -27 -9.358974e-01   1.2820512821         1.262188e-01
## 687      -5    3.2    23 -5.916667e+00   1.1219806763        -1.203927e-01
## 688      13   -1.7   -26 -1.740260e+00  -4.0519480519        -9.017680e-02
## 689      -8    9.1    -5 -4.857843e+00  -1.6862745098        -1.637294e-01
## 690      -3    5.4   -10 -3.349876e+00  -0.3250620347        -2.138319e-02
## 691      -5    1.5  -140  4.058030e+00  -2.0890688259         2.769300e-01
## 692      -2   -4.5    42  5.591398e-01  -2.0752688172        -1.331018e-01
## 693       0   -7.1    10 -3.275304e+00   1.0384615385         2.175710e-02
## 694      -3    6.3     5 -3.894872e+00   0.0846153846        -6.902571e-03
## 695       0    4.0    47  2.884550e+00   4.6027164686        -1.627399e-02
## 696       5   -3.7    -8  1.726508e+00  -1.1767180926        -6.598738e-02
## 697       5    0.9   -26  4.462500e+00   0.2553571429        -3.113019e-02
## 698      -2   -0.2   -55  2.424242e-01   0.5454545455        -1.596098e-03
## 699      -5    6.6   -46 -1.384615e+00  -0.1923076923         1.417561e-02
## 700       5    1.3     4 -1.080357e+00  -0.9107142857         5.315790e-02
## 701      -7   -2.0     1  1.055556e+00   0.5416666667        -1.011284e-01
## 702      -5    1.1   -41  1.516508e+00   0.3440939105        -3.144140e-02
## 703      -3    2.1    48 -6.380556e+00   0.5629629630        -1.666170e-01
## 704       0   -0.6   -45  2.211111e+00  -4.6555555556        -1.289624e-03
## 705     -10   -5.1   -15  5.397368e+00   0.4342105263        -1.322308e-02
## 706      18    1.4    20  2.362573e+00   0.5867446394        -1.758729e-01
## 707       2    3.4    27 -8.656126e-01  -1.3399209486         6.134089e-02
## 708     -33    7.0    70 -1.555263e+01   0.5284210526        -2.158589e-01
## 709       3    3.5   -63  5.184275e-01  -0.3918918919        -8.690340e-02
## 710       0   -0.8   -40  3.659196e+00  -0.5042847726         1.553486e-01
```

```
## 711     -8   7.4  -55 -1.923077e+00  0.0653846154        6.497293e-02
## 712     -3  -1.1   77 -8.858974e+00  0.4846153846       -2.640729e-01
## 713     -8  -0.8  -36  1.264828e+00  1.3779310345       -1.522463e-01
## 714     18  -3.4  -30  8.189474e+00  0.7526315789        7.429989e-02
## 715      3  -2.9   36 -2.316176e-01  1.2757352941        2.692814e-02
## 716      0  -4.9   35 -2.622727e+00  0.6200000000       -1.701229e-01
## 717      5  -2.2  -89  2.974359e+00  1.0769230769        8.961875e-02
## 718    -12  -4.1  -18  3.888795e+00  0.2393887946        5.563131e-02
## 719      3   3.6  -26  3.653846e-01  0.5961538462        6.456900e-02
## 720    -10 -10.2  -47 -2.327586e+00  1.9729064039       -8.307092e-03
## 721     -7   6.2  -76 -5.524297e-01 -0.7570332481        9.292454e-02
## 722      2  -1.5   39  2.057018e+00  1.3377192982        1.558350e-01
## 723      5   6.8   -7 -3.333333e+00 -1.4571428571        8.926142e-02
## 724     -5   5.7  -58 -1.470707e+00 -1.0868686869       -9.630778e-03
## 725    -10   4.2   13 -8.025641e-01 -0.3166666667       -8.104615e-03
## 726     12   3.3  -27  1.048485e+00 -2.4212121212        4.263104e-02
## 727     -3  -0.9   23 -1.451613e+00  1.7562724014       -8.064006e-02
## 728     -7   3.7  -33 -1.948718e+00 -1.0439560440       -1.992812e-01
## 729     -5   0.1  -57  3.452314e+00  1.5638148668        1.869966e-02
## 730     -2  -3.9  -48  2.555237e+00  0.4476327116        3.673312e-02
## 731      5   3.8  -28 -8.110048e-01 -0.9019138756        1.031902e-01
## 732     -7   2.7  -55  1.963526e+00  0.1683890578        3.657726e-02
## 733      2  -6.2   67 -1.283333e+00  0.6041666667       -3.629690e-02
## 734      5   5.3  135  1.333333e+00  0.4019607843       -8.124943e-02
## 735     -2  -2.9   45 -1.828205e+00 -0.0205128205        9.644336e-02
## 736     -8   7.4  -50 -1.544715e+00  0.1300813008        4.681253e-02
## 737     13  -7.9  -17  5.395402e+00  0.6850574713       -1.651695e-03
## 738     13   4.1  -22  1.526786e+00 -1.3437500000        8.586169e-03
## 739      5  -2.4   26  2.301790e-02  1.3209718670        9.827812e-03
## 740     -3   6.3   42 -2.735450e+00  0.6296296296       -1.235100e-02
## 741      3  -5.1  -26  2.588235e+00 -0.1134453782       -3.296727e-03
## 742      7  -0.7   68 -3.805316e+00  0.6846264368       -1.444520e-02
## 743    -11   1.1  -29 -6.053030e+00 -0.2746212121        6.981608e-02
## 744      5  -0.5    5 -1.317604e+00  1.9945553539       -4.328157e-02
## 745      0   1.8  -25 -5.416667e-01  0.2261904762       -5.245962e-02
## 746      3  -5.6   10  3.426374e+00  0.9560439560        1.227637e-02
## 747     10  -5.5   24  1.747606e+00  0.3228454172        9.712506e-02
## 748      0   2.1   14  0.000000e+00  0.5266666667        2.133069e-02
## 749      5  -1.5   51 -7.333333e-02  1.6355555556        5.742560e-02
## 750      2   0.0   56 -2.776091e+00  0.6913345984        4.543828e-02
## 751      2  -0.8   29 -1.668803e+00  0.9188034188        1.017719e-01
## 752     -5   0.8   42 -1.812500e+00 -0.1294642857       -1.129610e-01
## 753     10   4.7  -47  5.423077e+00 -1.0357142857        5.129333e-02
## 754     -3   7.4   56 -1.025641e+00 -0.2008547009       -8.801338e-02
## 755     -3   7.7    6  1.088710e+00  0.1747311828        1.664535e-01
## 756      5  -4.5  -16  3.146991e+00  1.2731481481       -5.948733e-02
## 757     -8   3.4  -12  2.653846e+00  1.0351170569       -1.438478e-02
## 758      3   6.9   64 -5.152381e+00  1.6190476190       -6.811090e-02
## 759     -8   9.0   31 -3.258224e+00  0.8717105263       -4.637184e-02
## 760     17  -3.2  -27  6.328571e+00  0.1714285714       -2.752423e-03
## 761    -18  -1.3   -8 -5.564286e+00  0.1023809524        2.025505e-01
## 762     -7  -1.0  -69  1.895000e+00 -0.9033333333        1.990998e-02
## 763     -5   4.7   37 -5.307359e+00  0.0129870130       -1.015101e-01
## 764     -7  -6.2   53  1.600000e+00 -0.5636363636       -3.014744e-02
## 765    -13  -3.5   77 -8.153595e+00  0.1546840959       -1.328351e-01
## 766     -7  -1.4  -50  3.026316e+00 -0.2368421053       -4.826602e-02
## 767    -13   1.8   33  1.393939e+00  3.6899766900        6.642389e-02
## 768      0   0.6  -57  3.214286e+00  0.3630952381        7.684128e-02
```

```
## 769     3    5.9   -63 -1.887963e+00 -1.6416666667   -3.058439e-02
## 770     3   -6.4    36  3.111111e+00 -0.8833333333    9.335340e-02
## 771   -22    3.1    11 -2.755825e+00  0.0792171482    3.237797e-02
## 772    -5   -1.3   -60  1.952381e+00 -0.0887445887    2.642350e-01
## 773     3    2.2   -63  4.457483e+00  0.8469387755    3.173287e-02
## 774    -5    3.5    61 -5.863636e+00  0.3939393939   -5.439910e-02
## 775   -12   -1.8   -50  2.200000e+00  0.2905882353    7.874580e-02
## 776    -3    1.7    90 -4.564286e+00 -0.1571428571   -5.394781e-02
## 777     5    2.3   -48  1.000118e+01  0.8670588235    6.446873e-02
## 778     3   -0.9   -20 -2.946341e-01  0.1590243902   -5.716560e-02
## 779    -3   -8.7    20  6.994698e+00  1.6521739130    1.924001e-01
## 780   -18   11.4    62 -9.013289e+00 -0.4496124031   -1.398497e-01
## 781     7   -2.7    40 -1.921053e+00 -0.2347368421   -5.235260e-02
## 782    -2    5.7    23  1.292484e+00  0.5653594771    3.301402e-02
## 783    -2   -1.9     8  5.428571e-01 -1.1428571429    6.144592e-02
## 784    18   -3.2   -26  4.615385e+00  1.0192307692    7.896417e-02
## 785    -7    4.0   -33 -2.001832e+00 -1.0274725275   -7.249874e-02
## 786    -8    0.3   -16 -2.495238e+00 -1.0539682540   -4.767770e-02
## 787    -5    1.4   -42 -4.444444e-01  0.1944444444   -1.236472e-01
## 788    -3    7.4     4  3.114943e+00  0.7777777778   -1.888989e-02
## 789     8   -0.9   -25  3.243842e+00 -1.0197044335    1.705974e-02
## 790    13    1.7   -61 -5.962963e-01 -1.0222222222    1.547108e-02
## 791     5  -11.4    -4  1.500000e+00  0.4610389610    5.678316e-02
## 792    -7    6.5    28 -2.407407e+00 -0.4814814815   -4.489788e-03
## 793    -5    0.2   -17  2.656315e+00  0.1780538302    2.701113e-02
## 794     0    0.7   -13 -2.693603e-02 -1.4410774411   -4.390348e-02
## 795    13   -2.2    36  7.031818e+00  1.3181818182   -7.054965e-02
## 796     0   -1.4   -30 -1.261905e+00  1.4380952381   -8.374775e-03
## 797   -13   -3.4    27 -8.189235e+00 -1.2733389403   -9.070453e-02
## 798     5    3.3    37 -1.630435e-01 -1.2965838509   -2.531263e-02
## 799    -6    7.2   -85  5.366667e+00 -1.1000000000    1.674758e-01
## 800    -5    0.9    45 -4.748663e+00  0.4893048128   -8.838892e-02
## 801     5    0.1    27 -1.088235e+00 -0.5588235294    5.700318e-02
## 802   -18    3.3    21 -4.858696e+00 -1.1118012422   -9.939115e-02
## 803     5   -2.7    31 -2.254630e+00  0.3611111111    8.264016e-03
## 804     5   -4.2    15 -1.882190e+00  0.5661815662    2.748863e-02
## 805   -10    2.1    41 -6.411765e-01 -0.7955882353   -2.845083e-02
## 806    -3    3.2    94 -3.010417e+00 -0.3958333333   -1.948780e-01
## 807     0   -2.8    34 -1.400000e+00 -0.6666666667   -5.632331e-02
## 808    -3    3.3    91 -2.532051e+00 -2.5128205128   -5.569037e-02
## 809   -11   -1.8    29 -3.778080e+00  0.8233695652   -1.106660e-01
## 810    21   -4.8   -43  1.066590e+01  0.8909370200    9.275508e-02
## 811    -8    3.7  -109  8.394584e-01  0.6557059961    1.082970e-01
## 812     2   -2.3    48 -2.613751e+00  0.4651162791    2.246410e-02
## 813     5    0.6    20 -3.668966e+00  0.7820689655    2.424704e-02
## 814   -10    6.8    22  2.903049e+00 -0.2932926829   -6.301795e-02
## 815     5    0.3   -54  1.339950e+00  1.2779156328    8.506472e-02
## 816     5    2.4   -24  8.611807e+00 -1.9892665474    1.659917e-01
## 817    11   -5.2   -54  8.539541e-01  0.5943877551    1.046238e-01
## 818    -5   -1.6    15  1.725379e+00 -1.8731060606   -7.737352e-02
## 819    18   -4.3   -28  4.761905e-03  0.1190476190    8.592105e-02
## 820    -3    3.0    84 -2.285714e+00 -1.0000000000   -3.439084e-02
## 821    -2   -4.9   -37 -9.252525e-01  0.7656565657   -1.849728e-02
## 822   -18    6.7   104 -4.246512e+00 -0.0356589147   -1.323354e-01
## 823    -3    3.4    92 -3.991848e+00 -0.5054347826    7.175445e-03
## 824   -15   -1.0   -19 -2.906832e+00 -0.5931677019    2.528460e-01
## 825   -25    9.4    61 -8.753682e+00 -0.1268412439   -2.238183e-01
## 826     5   -2.6   -38 -1.248804e+00 -0.2906698565    4.272879e-02
```

```
## 827    -2   0.7   -2 -1.010484e+00  0.1137096774      5.311634e-05
## 828     8   0.1   -5 -2.864097e+00  1.2109533469      2.127959e-02
## 829    -5   7.0  -21  3.117117e-01  1.3981981982      6.269900e-02
## 830    13  -1.5  -93  5.903030e+00  2.3272727273      1.421816e-02
## 831     5   0.3   33 -1.960784e-02  0.8235294118     -6.355192e-02
## 832    -5  -0.8  -22 -2.222222e-01 -0.5185185185     -1.653265e-01
## 833    -2   0.7   -2 -1.786047e+00  0.0299003322     -4.672704e-02
## 834     8   0.4    8 -3.383459e-02 -0.6541353383     -1.404028e-01
## 835    -5  -4.6    8  1.180556e+00  0.2500000000      6.928771e-02
## 836     0   2.5  -18 -8.234234e-01 -1.0486486486      1.593616e-02
## 837     2  -2.0   53 -3.735849e+00  1.0794025157     -1.410737e-03
## 838    -2  -7.6   24 -5.165899e+00 -1.3202764977     -7.363943e-02
## 839    -5  -4.2   14  1.380342e+00  0.8012820513      6.296629e-02
## 840     7   8.4  -65  2.028409e+00 -0.6562500000      1.134228e-01
## 841     5  -1.7   52  7.475561e-01  0.9562967223      7.041132e-02
## 842     5   2.5  -48  1.689953e+00  1.3335949765      1.818013e-01
## 843    -3   4.7  -20 -2.103175e-01  1.8746031746     -6.685101e-02
## 844     2  -1.2  -23 -2.467195e+00 -1.1255656109     -6.190443e-02
## 845    -5  -1.4  -66  1.979167e+00 -0.2916666667      2.207110e-01
## 846   -15   2.4  -14 -2.425891e+00 -0.3958724203     -4.932673e-02
## 847    -5  -1.6  -51  9.391304e-01 -0.5565217391     -1.006185e-02
## 848     5  -6.8  -48  1.511111e+00  0.4492063492      4.199616e-02
## 849     0   2.1  -28 -2.703985e-01  2.9629981025     -4.923409e-02
## 850     0  -0.4   -7  1.130952e+00 -0.3373015873     -1.165426e-01
## 851    -3  -4.0   23 -1.545455e+00 -0.5303030303     -4.819983e-02
## 852     3   0.3  -41  2.741379e+00  0.2875862069      1.370257e-01
## 853     3   6.4  -35 -4.669474e+00 -0.4178947368     -5.737983e-02
## 854    -7  -5.3  -19 -1.627315e+00 -0.7615740741     -5.662736e-02
## 855     5   1.9   47 -6.285135e+00  0.5520270270     -1.562058e-01
## 856     0  -5.9   88 -1.076923e+00  2.2599067599     -9.571305e-02
## 857     0  -3.3   63  2.750526e+00 -0.7621052632      8.971047e-03
## 858     3  -5.4  -31 -2.018018e+00  1.9050589051      7.019868e-02
## 859    18   0.1   86  6.538113e+00  2.0060377358     -2.070695e-01
## 860    -2  -0.1   -7 -2.142857e-01 -0.8273809524     -1.452346e-02
## 861     3   0.7   14  6.030888e-01  2.0980694981     -6.268767e-02
## 862   -13   2.7   40 -7.352047e+00 -1.0760233918     -9.463623e-02
## 863   -16  -3.1   42  8.567119e-01  0.5490196078     -2.847505e-02
## 864     5   1.2   32  1.162602e+00  1.2579453067     -4.948810e-02
## 865   -10   5.7  -66 -3.746439e+00 -1.2706552707     -1.999575e-02
## 866   -10  -5.8  -52 -1.796429e+00  3.8500000000      1.576158e-02
## 867     7  -2.7  -36 -2.833764e+00 -0.8996554694      2.922645e-02
## 868    10  -5.4  -41  6.042105e+00 -0.4131578947      1.043671e-02
## 869   -11   4.2   -4 -4.285714e-01 -0.9853479853     -2.482410e-02
## 870     0   0.2   70  3.432927e+00 -1.5463414634     -2.151703e-02
## 871    -5   0.9   -3 -5.547786e+00 -0.7869463869      6.104780e-03
## 872     3  -5.8   -1 -3.784053e+00  3.5592469546     -2.327774e-02
## 873    -5   5.8   -1 -6.886364e-01 -0.7250000000      3.666557e-02
## 874     0  -0.4  -59  2.432331e+00 -3.6604010025      8.022894e-02
## 875     5   1.6    3  2.696594e+00 -0.6857585139      4.947569e-02
## 876     0   0.4   10 -1.779221e+00  0.5870129870      1.381940e-01
## 877   -15   3.3    8 -1.527778e-02  0.2208333333     -1.126993e-01
## 878    10  -6.5  -43 -1.872727e+00  0.3272727273      3.355186e-02
## 879   -13  -0.5   48 -5.902778e-01  2.3333333333      1.142526e-02
## 880    -3   6.7   54 -6.010101e-01  1.3181818182     -8.080336e-02
## 881   -10   1.5  -30  7.188312e-01  0.3123376623      6.925204e-03
## 882    -8   2.8   49 -6.259259e+00 -1.5555555556      3.710648e-02
## 883     5  -6.6   32  6.598291e+00  1.4423076923      1.762914e-02
## 884    13  -3.5  -27  4.187534e+00  0.7446221732      6.947044e-02
```

33

```
## 885      -3   -2.3   -11 -1.348684e+00   0.2730263158          -1.099215e-01
## 886       5    3.0     2  5.211890e+00  -1.4237804878           3.724490e-02
## 887      13    1.9    12  8.379310e-01   0.8954022989           1.142021e-01
## 888      -2    4.0   -27 -1.256410e+00  -0.4615384615          -5.887282e-02
## 889       5   -6.5    47 -1.743369e+00  -0.8786472149          -3.577625e-02
## 890       2    3.3   -13 -3.644751e+00  -1.5609756098           5.381849e-02
## 891       0   -2.4    10  4.557143e-01   0.5885714286           5.387549e-02
## 892      -8    4.4   -19 -6.559028e+00   1.0868055556           1.053322e-04
## 893      -5    3.3   -33  7.495455e+00  -0.8030303030           1.593350e-01
## 894      13    2.8   -20  9.536630e+00  -0.8974358974           6.998740e-02
## 895      16   -2.9   -42  1.356645e+01  -1.6735880399           1.616110e-01
## 896      -8    7.2   -19 -3.341667e+00   1.3166666667          -2.999890e-02
## 897      -3   -5.1   -82 -4.795455e+00  -4.8165584416           4.210993e-02
## 898       2    3.3     6  6.217949e-01   0.9615384615          -1.555131e-01
## 899      -5    2.5    -5  1.269841e-02  -0.0172335601          -3.281268e-02
## 900      11   -3.6   -95  3.137625e+00  -1.2530521643           4.312936e-02
## 901      -3    5.1   -51  1.395796e+00   0.0024024024           4.085256e-02
## 902      -7    0.1   -34  3.199206e+00  -0.3587301587           3.465703e-04
## 903     -23    5.5   -10 -8.810943e+00  -1.5962264151          -2.056077e-02
## 904       5   -1.4   108  1.421429e+00  -0.5785714286           1.151238e-02
## 905       0    1.9    28  5.110644e+00  -2.4397759104          -1.881010e-02
## 906      -8   -6.0   -10  6.467742e-01  -0.2822580645           8.971744e-02
## 907       7   -7.3    12  2.608739e+00   0.6191658391           1.908625e-02
## 908      -2    0.3    54 -9.465738e-01   1.3025551684          -1.223620e-02
## 909     -13    3.4    25 -4.656672e+00  -0.9955022489          -1.185214e-01
## 910      -5    6.0   -37  3.404040e+00  -0.1292929293           1.250761e-01
## 911      26   -3.3   -18  1.527273e+01   0.1818181818           1.022163e-01
## 912       5    1.3    44  4.010210e+00  -2.4146341463          -1.576078e-02
## 913       0   -4.4   -31 -3.332018e+00  -2.0214912281           5.805192e-02
## 914     -13    0.2    13 -1.644444e+00   0.2740740741          -1.204663e-01
## 915       3    0.9    -5  1.219668e+00   0.8026819923          -3.387928e-02
## 916       3    4.5    -5  4.435621e+00  -0.8247305729          -4.993133e-02
## 917       0    1.3   -23 -2.619048e-01  -0.7399267399          -3.072464e-02
## 918       5   -1.9    -8 -2.832100e+00   2.0559666975          -2.934489e-02
## 919       8   -5.4   -34  1.486166e+00   2.5444664032           1.022692e-01
## 920      -2    0.9    19  3.638607e+00   1.2748478702          -5.880800e-02
## 921      -7    0.2     4 -3.879710e+00   0.9217391304          -5.762425e-02
## 922       2   -5.4   -32 -1.645349e+00   0.3467230444           3.151821e-03
## 923       0   -4.7   -10 -9.249645e+00   3.5522458629          -5.082674e-02
## 924      -2   -3.9    18 -9.230769e-01   1.2626841244          -9.276435e-02
## 925       0    0.7    23 -2.959722e+00   0.4097222222          -7.377858e-02
## 926       3   -0.4    34  2.477355e+00   0.4990942029          -4.806988e-02
## 927     -12    5.5   -34 -5.631868e-01  -1.3296703297          -4.452057e-02
## 928       5   -7.7   -49  6.206897e-01   0.6000000000           9.518966e-02
## 929       5    5.0    14  4.740741e+00   2.9082125604           1.472359e-01
## 930      -5   -1.6   -26  5.900000e-01  -1.5700000000          -1.003858e-02
## 931      -7    2.9    10 -3.318083e+00  -1.7494553377           4.558941e-02
## 932      16   -1.3    31  1.106667e+01   2.6066666667           1.385848e-02
## 933       2    8.3    35  1.766304e-01   0.0760869565           3.112515e-02
## 934      -5    2.5     1  3.571429e-02   0.6535714286           5.767954e-02
## 935       6   -5.1    13  6.953347e+00  -1.0263691684           6.961076e-02
## 936      -5   -7.1    57 -7.280220e-01  -1.2032967033          -5.676174e-02
## 937       0    3.9   -43 -3.767568e+00  -3.9621621622          -2.909827e-02
## 938       7   -0.2    -6 -4.581555e+00   0.9603658537           2.472666e-02
## 939       5   -6.6     7  2.461905e+00   0.6380952381          -6.281179e-02
## 940       2    2.0    84 -2.037037e+00   0.4129979036           7.388762e-02
## 941     -10    6.3    73 -6.451613e-02   0.1290322581          -1.040783e-02
## 942       8    1.0    31  4.158333e+00   3.9250000000           1.158909e-01
```

```
## 943     -8  -7.6   25  1.964286e-01   0.9598214286    -7.189513e-02
## 944     10  -0.2  -38  2.551282e+00   0.3397435897     8.320025e-02
## 945      5   8.9   68 -3.654762e+00  -0.2500000000    -1.198017e-01
## 946     -8   4.5   13 -4.108374e+00  -0.0221674877     4.107348e-03
## 947      2   5.9  -21 -4.950450e+00  -1.9294294294     7.543742e-02
## 948     -2  -1.7   -1  4.392857e+00   0.7571428571     1.118764e-01
## 949     -3   4.8  -49  1.381944e+00  -2.7708333333    -3.899688e-02
## 950     10  -5.2  -23 -2.047619e+00  -0.9548872180     5.837251e-02
## 951      3  -0.2  -44 -5.539972e-02   0.3085553997     3.975425e-02
## 952      7   5.8   32 -4.965812e+00  -0.6894586895    -1.637915e-02
## 953     13  -3.7    8  2.160282e+00   0.0534274194     6.457130e-02
## 954      0  -0.4   -6  7.803321e-01   0.8620689655    -4.171530e-02
## 955      3  -4.9    9  5.754286e+00  -0.3771428571    -4.432268e-02
## 956     13   2.8    2 -9.983962e-01  -0.3953488372    -5.255605e-02
## 957     13  -2.7   24  1.850877e+00  -2.1526315789     5.170104e-02
## 958      3   2.2   60  9.647059e-01   1.0705882353     3.243603e-02
## 959     -3  -1.1   26  3.565705e-01   0.9134615385    -5.695354e-02
## 960     10  -0.5   29 -8.727273e-01  -0.3939393939    -1.098804e-02
## 961      8  -0.6  -20  5.055556e+00  -2.2222222222     6.519366e-02
## 962      8  -7.2   15  3.744318e+00  -0.9431818182     1.250914e-02
## 963      0   1.3   52 -1.175000e+00   2.9694444444     1.837125e-02
## 964      0   2.7   -6 -3.668521e+00   0.8147853736    -3.060494e-02
## 965     -5  -0.6    1 -1.348509e+00  -1.2211382114     5.879491e-05
## 966     -5  -0.7   -1  7.428571e-01  -0.8380952381     5.342183e-02
## 967     -3  -1.0  -92 -2.236396e+00  -2.9107939340    -1.100167e-02
## 968      0   6.2  -35  5.861538e+00   1.3897435897     6.888895e-02
## 969     10  -6.3  -82  4.513889e-01  -0.1284722222     6.639389e-03
## 970     10  13.1 -203  6.858586e+00  -1.2188552189     3.268627e-02
## 971      5  -6.6   33  6.448485e+00   1.4818181818     2.797662e-02
## 972    -18   6.1   -5 -2.417381e+00  -0.9853121175     1.062740e-02
## 973      0   4.1   -1 -1.004167e+00  -0.0562500000    -1.305283e-02
## 974     -2   1.6   38 -9.732558e-01   0.5494186047    -3.097495e-02
## 975     10  -2.6  -20 -8.547009e-02   0.0341880342     6.346504e-03
## 976     10   3.5  -78  1.990950e+00  -0.1651583710     1.177058e-01
## 977      5   0.4  -67  1.833333e+00  -0.1742424242     4.714873e-02
## 978     10   4.0    8 -3.882692e+00  -0.9884615385    -5.229423e-02
## 979      0  -2.2   38  0.000000e+00   0.4178861789     6.421450e-03
## 980     -2  -1.0   -9 -1.057895e+00  -1.1964912281    -2.623836e-02
## 981      5   4.1   39 -5.053571e+00  -1.0601503759     4.504986e-02
## 982     -2   5.0  -26 -6.711538e-01  -1.0730769231     5.043379e-03
## 983    -10  -4.7   45 -5.190154e+00   1.0723938224    -5.528449e-02
## 984     28  -0.1  -67  1.586667e+01   0.6111111111     1.152259e-01
## 985      0  -3.1    7  2.305595e+00  -0.2381635581    -2.682871e-02
## 986      6  -5.3  -28 -7.142857e-01  -0.3064935065     6.364065e-02
## 987     -5   3.1   74 -1.101553e+00   0.7933094385    -1.565370e-01
## 988      0   5.2   46 -2.813853e+00   1.0367965368    -7.718145e-02
## 989     23  -1.3  -21  5.533937e+00   1.2285067873    -4.997244e-02
## 990     -3   1.8   60 -7.104247e-01   1.2142857143     2.873293e-02
## 991     12  -3.5  -30  5.385417e+00  -0.0750000000     1.040284e-02
## 992      3  -2.2  -69  1.092819e+01  -1.6545729403     1.182432e-01
## 993     10  -7.5  -50  2.618227e+00   0.9402709360    -2.226297e-02
## 994      0   3.5   45  2.095238e+00  -1.5595238095     1.696915e-01
## 995      8   1.7  -61  9.040189e+00   0.4444444444     5.751695e-02
## 996     -5  -1.3  -44 -4.021739e+00   2.1521739130     2.874325e-02
## 997      3   2.6    7  4.931034e+00   3.5848275862    -1.940202e-02
## 998     -5  11.5  122 -4.460526e+00   1.1973684211    -8.090675e-02
## 999     13  -1.0  -60  2.812112e+00  -0.6366459627     9.692182e-02
## 1000     0   1.3   16  1.637363e+00   2.4230769231     8.425523e-02
```

```
## 1001    -5   0.9   -75   2.444444e-01  -1.2777777778      -5.964598e-02
## 1002     3   5.6   -55   1.562771e+00  -1.7748917749       1.900527e-02
## 1003    -3   0.3   -38  -3.472727e+00  -0.0166666667       3.888209e-02
## 1004     5  -1.2    11  -1.070922e+00   0.7494089835      -2.327720e-02
## 1005    10   6.3  -184   7.567568e-01  -0.8693693694      -6.295252e-02
## 1006     3   0.8    58   5.693182e+00   0.9480519481      -8.049603e-02
## 1007     3  -1.5     5   3.234848e+00   0.9469696970      -1.396550e-02
## 1008     0  -0.9   -33  -1.390270e+00   0.8810810811      -9.317644e-02
## 1009     6   2.5   119   4.400000e+00   2.0190476190      -5.438948e-02
## 1010     7   5.6    24  -3.973684e+00  -0.4550706033      -1.636838e-01
## 1011    -8   1.5    72  -7.395782e+00  -0.7009925558      -9.560085e-02
## 1012     5   2.2    37  -4.477733e+00   1.2402159244      -6.777856e-02
## 1013     8   2.7   -81   1.963835e+00  -0.6097560976       6.718596e-02
## 1014   -21   3.6    43  -1.384143e+01   0.7455242967      -1.020892e-01
## 1015     5   0.3    -4   3.290043e+00   1.4285714286       7.783918e-02
## 1016     8  -1.1    19  -2.650000e+00  -1.1722222222       3.694704e-03
## 1017    -7   5.1   -32  -1.643169e+00  -0.2761627907      -2.061274e-02
## 1018   -15  -1.6   -49  -2.914352e+00  -0.4212962963       1.254065e-01
## 1019     8  -3.2  -102   4.386570e+00   1.3357531760      -1.026506e-01
## 1020    -8  -1.9    35  -5.907879e+00   0.6115151515      -9.756579e-02
## 1021    10  -8.4   -11  -7.114943e-01   1.5505747126      -1.433464e-01
## 1022     8   4.1   -67   6.695833e+00  -0.5250000000       1.504239e-01
## 1023    -3   3.2    49   3.385161e+00  -2.4577195854      -5.295316e-02
## 1024     5  -3.3   -67   2.480377e+00  -2.4780219780       9.727216e-02
## 1025   -23   6.6  -122  -6.388889e+00  -2.0444444444      -4.908604e-02
## 1026    -8  -0.9    57   1.968254e-01   1.3793650794       8.352658e-02
## 1027    -5   4.5  -102   4.785455e+00  -3.2672727273       1.077795e-01
## 1028    -2   1.4    41   2.254530e+00   1.5970664366      -8.082535e-02
## 1029    -5   4.3   -11   3.585366e+00   0.8042362003       7.584714e-02
## 1030   -10   3.4   -47  -2.041280e+00  -1.1212590299       1.156876e-02
## 1031    -8   1.9    25  -1.955840e+00  -1.7293447293      -9.805697e-02
## 1032    -7   2.2    23  -2.541806e+00   0.2558528428       1.181969e-01
## 1033    15  -2.2     6   3.607027e+00   1.3741054001       9.918886e-02
## 1034   -23   2.8    -6  -1.362918e+01  -0.1595744681      -8.229998e-02
## 1035   -10  -1.9     6  -5.313990e+00  -0.4578696343      -1.343190e-01
## 1036    18   0.1    39   4.272727e+00   0.5097402597      -1.868293e-01
## 1037   -13   2.2    25  -1.990950e+00  -2.2669683258       5.151893e-02
## 1038   -15   4.0    47  -6.636603e+00  -0.0052666228      -4.892097e-02
## 1039    -3   7.4   105   1.578704e+00  -2.2546296296      -8.218839e-02
## 1040     0   4.1   -43   5.500000e-01   2.1700000000       1.143909e-01
## 1041     0   1.3     9  -4.078416e+00  -1.5636645963      -1.199547e-01
## 1042     0  -0.4   107  -1.772549e+00   2.6686274510      -3.889396e-02
## 1043    -3  -4.7   -24  -7.009217e+00  -1.5629800307       2.418609e-03
## 1044    13  -1.7    -4   2.274608e+00   2.8893416928      -1.620066e-02
## 1045    15  -2.6    -5   5.452778e+00   0.7333333333      -4.148113e-02
## 1046     3  -0.2   -27   4.166113e-01   0.3136212625       9.233167e-02
## 1047    -8   0.2    19  -3.847222e+00  -1.5916666667       1.032347e-01
## 1048     0  -5.5   -18  -6.957551e+00   2.6575510204       1.803830e-02
## 1049   -18   3.7    18  -6.141844e+00  -1.1118064247      -1.194949e-01
## 1050    -2   0.2    13  -2.058030e+00   1.1926450742      -6.103735e-02
## 1051     3   2.5     7   1.992063e+00   3.1190476190      -2.086533e-02
## 1052     0  -2.7    13   2.382483e+00   0.0449002217       1.208685e-01
## 1053    -5  -0.7   -16  -5.591707e+00   0.5429268293       1.029391e-01
## 1054     8  -3.0     3   1.932511e+00   2.2768505080      -5.451547e-03
## 1055    -2   3.9    13   6.621528e-01   1.2111111111      -5.292134e-02
## 1056    -3   5.8    -1   4.588235e+00  -3.4357298475       3.340437e-02
## 1057    -3   1.0    -2  -5.692308e-01  -3.3153846154      -1.212887e-02
## 1058   -12   9.9   -15  -2.362132e+00  -0.3400735294       1.243749e-02
```

36

```
## 1059    -13   4.2    41 -2.245098e+00 -0.1544117647       -6.144055e-02
## 1060     13   0.0    77  6.883333e+00  1.3500000000       -1.482713e-02
## 1061      8   4.7   -35  2.269055e+00 -1.0152439024        6.724895e-02
## 1062    -16   5.2   -40 -6.850000e+00 -1.3611111111       -5.402508e-02
## 1063      8  -5.5   -29  2.554971e+00 -0.4543859649       -2.976725e-02
## 1064      3  -2.3     8  1.616487e+00  0.3405017921        4.559754e-02
## 1065      7  -0.1    -3 -4.491039e+00 -0.0093189964        4.820527e-02
## 1066     -2   2.3   -83  1.710526e+00 -0.6403508772        1.210367e-01
## 1067    -13   0.9    61 -3.142857e-01 -0.0327380952       -1.045743e-01
## 1068     15   3.3    18 -1.624490e+00  0.6448979592        5.376121e-04
## 1069      5   1.6   -48 -7.476190e-01 -1.7047619048       -1.835154e-02
## 1070      8   1.4   -38  5.049451e+00  0.1785714286        7.247516e-02
## 1071      8  -4.3     2  2.788484e+00 -0.8948296122        6.233080e-02
## 1072      0   4.4    66  6.245059e-01  1.1284584980       -2.773937e-02
## 1073     -8   0.9  -245  6.250000e-02 -0.2244318182        2.367753e-01
## 1074    -13   6.2   -37 -3.945723e+00 -0.9852366479       -6.158300e-02
## 1075    -20   5.0    17 -6.820408e-01 -0.2922448980       -5.781494e-02
## 1076    -15  -0.1    47  1.882353e+00  2.6005471956        8.217542e-02
## 1077     -2  -4.4   -14 -1.068182e+00  0.9340909091       -1.566425e-02
## 1078     -2   4.7   -37 -1.438235e+00 -1.6544117647        4.591794e-02
## 1079     -5   4.1    10 -1.847144e+00 -0.4977603583       -1.475790e-01
## 1080      0  -0.1    35 -2.460606e+00  0.1757575758       -8.217018e-02
## 1081      5  -6.1    93 -1.172596e-01 -0.0237154150       -1.332176e-01
## 1082     15   1.2    31 -2.225455e+00 -0.6172727273       -1.113597e-02
## 1083     -5   1.2   -10  1.508951e-01 -0.5754475703        2.338088e-02
## 1084     10  -0.2   -18  2.625974e+00 -0.0597402597        1.131844e-01
## 1085     10   6.4   -52  4.111111e-01 -0.6055555556        8.486821e-02
## 1086      7  -2.7   114 -2.333333e+00 -0.3333333333       -9.458551e-02
## 1087    -18   2.5    11 -6.764368e+00 -0.5103448276        1.192778e-01
## 1088      5  -4.0    -3 -1.333333e+00  0.2592592593       -1.750089e-02
## 1089      5   4.7    10  2.400000e-01  0.5600000000       -6.121633e-02
## 1090     -8   4.2   -29 -1.267949e+00 -2.3525641026       -3.590174e-02
## 1091     -5  -2.9     2 -1.422222e+00  0.2527777778       -1.036837e-01
## 1092      8  -4.4   -20  4.289362e+00 -0.6559270517        4.256767e-02
## 1093     -5  -4.5   105 -3.492982e+00  1.0754385965       -8.964187e-02
## 1094      3  -3.8   -27 -3.974194e+00 -3.9161290323       -1.827350e-02
## 1095     20  -7.7   -55  3.887363e+00 -0.9523809524        1.120595e-01
## 1096    -11  -0.1    -7 -6.653530e+00 -0.2183908046        1.128957e-02
## 1097     12  -6.2    50 -4.623478e+00 -0.3973913043       -6.033824e-02
## 1098    -15   6.9    -5 -1.118750e+00  0.4250000000       -1.313671e-02
## 1099     18   1.2    23  5.190476e+00 -0.1238095238       -1.187480e-01
## 1100     10 -12.4   -65  6.283302e+00  0.4221388368        1.330998e-01
## 1101      8   1.0   -36  1.562500e+00  1.0238095238        1.212636e-01
## 1102     -8   2.2    17  8.896341e-01 -1.2963414634        1.212997e-01
## 1103      8  -4.5   -12  4.466071e+00  0.4125000000       -7.614763e-03
## 1104     -5   2.4   -44  2.956897e+00  1.1681034483        7.566169e-03
## 1105      8   3.9   -72  4.084538e+00 -0.2997775306        9.881475e-02
## 1106     -3  -6.4    46  4.910326e+00  0.4891304348        6.711919e-02
## 1107      3   1.1    34  5.757576e-01  1.9761904762       -1.939940e-02
## 1108    -10   2.4    57  3.023143e+00 -1.9682717432       -5.741965e-02
## 1109      7  -2.1    96  9.696970e-01  0.6705767351        3.074223e-02
## 1110      2   1.6   -82 -1.750339e-01 -0.0678426052        3.355199e-02
## 1111      8   3.0   -36  5.561941e+00  0.3033205619        1.156146e-01
## 1112      2  -5.3   -28  5.238095e+00  0.0952380952        1.319754e-01
## 1113    -21   3.4     4 -5.301697e+00 -0.7348288755       -4.401483e-02
## 1114     -2   0.2   -47  2.332863e+00  0.2429378531       -2.377905e-02
## 1115      0   3.0    -9 -2.994591e+00 -0.0519293184        2.408006e-02
## 1116     18  -6.1    16  1.980072e+00  0.6829710145       -4.849306e-03
```

```
## 1117      3    3.0    52   4.435705e-01   1.7069083447     -1.256892e-01
## 1118     10   -5.3    30   1.552688e+00   1.5569892473     -5.871307e-02
## 1119      7   -0.1    -5  -4.449531e+00  -0.3557639272      4.867683e-02
## 1120      2   -1.0    93   6.988636e-01   0.1571969697      5.216577e-02
## 1121     -3    1.8     7  -1.818182e-01  -0.9449760766      1.030090e-01
## 1122     -2    5.1   -32  -3.680053e-01  -0.4298880843      1.171285e-02
## 1123     -3    1.5   -62  -6.205534e-01  -0.0830039526      6.138778e-02
## 1124      8    2.6   -15   3.578711e+00   0.1120448179      2.280499e-02
## 1125    -15    2.8    22  -5.469091e+00  -0.7418181818     -5.601694e-02
## 1126     -8    2.2   -16  -4.064922e+00   1.2800387597      5.685715e-02
## 1127     -3    5.2    44  -3.293103e+00   0.5344827586     -6.667613e-02
## 1128    -12    2.4   -41  -3.046218e-01   0.5000000000      4.498772e-03
## 1129      2   -2.8    22  -3.000877e+00   0.0122807018     -4.412057e-02
## 1130    -10    0.7    13   2.240816e-01   0.3587755102     -9.797955e-02
## 1131     15    3.9   -67   4.942486e+00  -1.2040816327      1.767143e-01
## 1132     -5    0.8  -135  -5.466667e+00  -0.2507936508      9.961360e-02
## 1133     10   -0.1   -23  -8.766578e-01   2.3879310345      2.151254e-02
## 1134     13   -4.5    33   3.743764e+00  -0.2539682540     -7.512217e-02
## 1135     -5   -1.3    47  -5.100877e+00   0.4678362573     -7.812095e-02
## 1136      5   -4.1    27  -1.890476e+00   0.2142857143     -4.993979e-02
## 1137      0   -5.0    36  -1.491039e+00  -1.0501792115     -1.455404e-02
## 1138     -7   -3.2   -48   3.699153e+00  -2.4401483051      4.816326e-02
## 1139      2    0.7     2   1.327778e+00  -0.5777777778      1.901992e-01
## 1140    -13    2.3    37  -5.926340e+00  -1.4601398601     -1.665022e-01
## 1141     -3    3.7    36  -6.867521e+00  -0.5427350427     -1.748327e-02
## 1142    -10   -3.3    -9  -8.164828e+00   0.6131034483     -6.255511e-02
## 1143     -3   -3.3    38   1.931818e+00   0.4090909091      8.021098e-02
## 1144      7    0.9   -83  -5.160465e+00  -1.6139534884     -3.763372e-02
## 1145     10   -6.6     9   4.957108e-01   0.5992647059      7.200251e-03
## 1146     -5    5.4   103  -2.290472e+00   1.5291396855      4.053534e-02
## 1147     10    4.5     8  -1.295547e+00   0.2186234818     -1.326001e-02
## 1148    -20    7.3    -8  -2.884034e+00  -0.0436974790     -4.477053e-02
## 1149     10   -4.7    41   2.037705e+00   0.2790163934      3.483680e-03
## 1150    -28    1.5    10  -1.172314e+01  -0.3276857913     -5.716713e-02
## 1151      0    1.7   -16   5.953557e+00   0.0296442688      1.185290e-01
## 1152      5   -1.4    34   2.661638e+00   1.6540948276     -4.077253e-02
## 1153      0    2.8   -38   7.354196e-01   0.4907539118      1.721322e-02
## 1154     10    1.0   -11   2.188095e+00   1.6928571429      1.109610e-01
## 1155      0    4.0   -11  -1.166216e+00  -0.6918918919     -2.653354e-02
## 1156     13    9.6   -39   3.374510e+00  -0.9764705882      7.467455e-03
## 1157     -3    2.6    43  -5.399577e+00  -2.1215644820      1.136709e-02
## 1158     15   -6.5   -20   4.628205e+00  -0.2435897436      4.314733e-02
## 1159      0    4.4   -50   4.890895e+00  -1.9740973312      6.412646e-02
## 1160      5   -2.4   -41  -2.555556e+00   1.8333333333      3.223840e-02
## 1161    -28    3.9   -16  -1.417556e+01  -0.0322222222     -5.055149e-02
## 1162      5   -2.7    15   3.937005e+00  -0.2861910722      6.617537e-02
## 1163     18   -2.4    -6   7.219163e+00   1.9743589744      3.992371e-02
## 1164      3    8.2    13   3.713627e+00  -0.1856484529      2.631993e-02
## 1165     -5    4.0    -5   3.439537e+00  -2.7294168096      1.493108e-01
## 1166    -18   -2.1   -20  -1.404492e+01   2.1265597148     -1.552998e-02
## 1167      8    0.3    53   4.901709e+00   1.4177350427     -1.431718e-02
## 1168    -18   -3.0    -6  -9.299242e+00  -0.3967803030      1.138659e-02
## 1169     -8    7.8    22  -4.516667e+00  -0.4500000000      3.746064e-02
## 1170    -13    5.2     9  -9.848081e-01  -2.8670042644     -1.839908e-02
## 1171     -8    0.3   -14  -5.674806e+00  -2.6235854675      5.622812e-02
## 1172      0   -0.2   -18   3.690476e-01  -0.0714285714      8.666815e-02
## 1173      3   -1.1   -16   1.416842e+00  -1.3957894737     -8.414877e-02
## 1174     -5    4.9   -38  -4.530817e+00   3.1610169492      2.144353e-02
```

```
## 1175     5  -3.1  -29 -1.456044e+00  0.7344322344   -5.848919e-02
## 1176    -3  -1.6   84 -3.265478e+00 -0.2185741088   -7.589726e-02
## 1177     5  -1.7   41  1.032459e+00  0.6275409836    5.668702e-02
## 1178     3   3.2  -39 -8.936768e-01 -1.2084309133   -6.482234e-02
## 1179     0  -3.6   -9  5.603604e-01 -0.3891891892   -5.834277e-03
## 1180    -5   7.2   26 -6.847070e+00 -0.5000000000   -5.406437e-02
## 1181   -13   2.7  -16 -5.433815e+00 -1.2947719689    1.399957e-01
## 1182     5  -3.1   -4 -2.679293e+00  1.0429292929   -3.953870e-02
## 1183     2   0.6   78  3.000000e-01 -1.1800000000    1.024245e-02
## 1184   -15  -1.8  -18 -5.937406e+00 -1.2209653092    6.948761e-03
## 1185    -8   4.6   43 -2.748291e+00 -0.2747863248   -9.378461e-02
## 1186    16  -3.0  -45  1.366142e+01 -1.9656177156    1.587589e-01
## 1187    -5   1.4  -20 -2.250000e-01  0.3849056604    5.587095e-02
## 1188    -5  -2.9   21 -7.331989e-01  0.3172043011   -8.876995e-02
## 1189    10   1.2  -21  6.388889e+00 -0.7222222222    9.536588e-02
## 1190    15  -5.2  -47  1.113191e+00  1.4025531915   -9.750312e-03
## 1191     5  -2.2   -5  3.250000e+00  0.4300000000   -2.849149e-02
## 1192    -2   1.2   20  2.869579e+00  1.2209302326    9.329411e-02
## 1193    -2   4.2  -48  8.852259e-01 -0.3638583639   -3.687963e-02
## 1194     8  -4.5    6  6.513889e+00 -1.0388888889    4.462693e-02
## 1195    12  -6.2  112 -1.241241e-01 -0.3723723724   -1.385527e-01
## 1196     8   1.7    4 -9.052288e-01  0.3872549020   -4.489708e-03
## 1197   -10   2.4  -11 -9.561404e-01 -0.6929824561   -1.050826e-02
## 1198    -7   1.2  -40 -6.862745e-02  0.8843137255   -3.007153e-02
## 1199   -13   0.2   32 -3.083877e+00 -1.5815470643   -7.909013e-02
## 1200   -13   5.8  -15 -3.976982e+00 -1.1815856777    7.473549e-02
## 1201   -10   0.5  -16  1.429173e+00  0.9978962132    2.191904e-02
## 1202    21  -3.7   17  9.291595e+00  0.9989708405   -1.182446e-04
## 1203    16  -3.4  -36  3.963621e+00  0.3112856552    1.445414e-01
## 1204     0   0.8  -24  8.094620e+00 -1.6745825603    1.803330e-01
## 1205     8  -0.2  -17  3.539216e+00  1.2144607843   -8.383244e-02
## 1206     5   8.2   15  8.076883e+00 -2.3735810114   -1.145651e-02
## 1207    -2   5.0   11  2.423333e+00  1.0200000000   -2.415078e-02
## 1208     5  -3.4   77  3.972125e-01 -0.3353658537   -7.208004e-02
## 1209    -2   0.2   55 -3.936652e-01  1.1085972851    6.750233e-03
## 1210    -2  -1.6  -35  6.593879e+00  0.8726220017    3.355295e-02
## 1211    18  -2.4   -5  7.032930e+00  1.9556900726    4.228035e-02
## 1212    -5   2.5  -55  4.469225e+00 -0.7059270517    1.192809e-01
## 1213    -8   2.3   28 -3.613333e+00  0.7700000000   -1.101617e-01
## 1214     3  -1.0  -29 -1.815650e+00  1.6810344828   -1.234098e-04
## 1215    -2   2.8  -29  3.012088e+00 -0.0468864469    3.136211e-02
## 1216    -2   2.0    9  2.319231e+00  0.3538461538    4.729380e-02
## 1217    -8   3.0   -2 -1.452632e+00 -2.1771929825    8.901036e-03
## 1218     0   4.0   33  5.596544e-01 -1.1937520771   -1.202942e-01
## 1219    -5   3.1   37 -5.066257e+00  0.2097411145   -4.069993e-02
## 1220     3  -5.8   -1 -4.485057e+00  2.8844827586   -2.594667e-02
## 1221     5  -5.7    1 -2.291274e-01  0.8232893911   -7.640287e-02
## 1222   -16   1.5   -2 -6.191176e+00 -0.8970588235   -5.155647e-02
## 1223    -3  -2.8  -10  2.020202e-02 -0.8585858586   -2.830318e-02
## 1224    -5  -0.8   25 -4.139937e+00 -1.9984276730   -3.943082e-02
## 1225   -13   2.6  -14 -1.469697e+00  1.9718614719   -6.929123e-02
## 1226     7   1.1   29 -2.623106e+00 -0.5814393939   -1.393990e-01
## 1227     5   3.1  -15  2.969697e+00  0.0606060606   -1.780826e-02
## 1228     8  -0.9   51 -1.385290e+00 -0.0533063428   -8.400441e-03
## 1229    -3   2.7  -90 -5.575758e+00 -1.5411255411   -6.924124e-02
## 1230   -20   7.7   52 -4.068966e+00  0.8103448276   -1.029984e-01
## 1231    -3   8.0  108 -1.483516e+00 -0.0412087912   -1.075849e-02
## 1232     0  -3.8   47  3.056911e+00  3.3368176539    3.336636e-02
```

```
## 1233     8   1.0     7  9.256098e-01   0.8536585366    -2.574359e-02
## 1234    10  -4.0  -118  3.329412e+00   1.4176470588     1.061721e-02
## 1235    -2   2.0   -17  6.035326e+00   1.2894021739     3.436819e-02
## 1236    -5   1.8    33 -2.778431e+00  -1.8882352941    -1.279733e-01
## 1237    -3  -1.0    30 -2.724225e+00   2.0777988615    -1.100143e-02
## 1238     2  -4.6    60  3.556391e-01  -0.2601503759    -8.568621e-02
## 1239    -3  -0.3   -99  6.476190e-01  -4.5000000000     9.629879e-02
## 1240     2   9.0   -37  5.083612e-01   2.0167224080    -4.632579e-02
## 1241     7  -2.0    47  6.000000e-01   0.7500000000    -1.503929e-01
## 1242    -5   0.9   -30  1.548329e+00  -0.2068654020     3.486870e-02
## 1243   -20   1.3    43 -7.559664e+00   0.0025210084    -6.686035e-02
## 1244     3   1.3    60  7.033333e+00  -1.2666666667    -5.557873e-02
## 1245   -13  -2.8    21  1.961444e+00   0.6897184823     6.562177e-02
## 1246    -5  -3.9   -36  4.462366e+00   1.9654377880    -4.122924e-02
## 1247   -11   4.2    39 -4.140125e+00  -0.2119437939    -2.385524e-02
## 1248    -5   5.8    84 -2.082143e+00  -1.8696428571    -6.873835e-02
## 1249     3  -4.6   -62  5.064103e-01  -2.5576923077    -6.341399e-02
## 1250   -15   3.2    54 -1.662358e+00  -0.9883354351    -9.659795e-02
## 1251    -5  -7.1    34 -8.055556e-01  -1.0416666667    -6.859470e-02
## 1252    -2  -3.6    19 -1.496436e+00   1.1603706344     2.385531e-02
## 1253     5  -0.8   -46  3.224834e+00   0.9454545455    -1.559808e-03
## 1254    10   5.8  -115  3.126068e+00  -1.2521367521     7.954631e-02
## 1255    -3  -3.4    37  1.553114e+00   0.2515262515     7.294963e-02
## 1256     0   1.6    90  1.569767e+00   0.7139534884    -7.110417e-02
## 1257     8  -4.9   -72  4.538291e+00   0.3540510544     5.532145e-02
## 1258    -3   0.9    42 -5.576850e+00  -1.7703984820    -2.711416e-02
## 1259    13  -0.1   -28  4.720077e+00   0.6848455598     1.071510e-01
## 1260    -8  -2.4   -15 -3.612467e+00  -0.5270270270     7.177382e-02
## 1261     5  -1.2    27 -3.541667e-01  -1.3281250000    -1.157107e-02
## 1262    -5   2.2    -2 -3.597403e-01   0.3305194805    -6.357036e-03
## 1263    10  -0.7    24  1.764642e+00   0.1341430499     3.039070e-02
## 1264     5  -2.1    45 -4.027778e+00   0.3571428571    -3.146898e-02
## 1265     0   0.4   -29  3.302387e+00   1.3315649867     7.782299e-02
## 1266    13  -5.1    63  5.767692e+00   0.4515384615    -1.890712e-02
## 1267    -5   2.4    59  9.225806e-01  -1.7004608295     1.622181e-02
## 1268    22   0.7   -72  7.447059e+00   0.7235294118     3.922100e-02
## 1269    -2   2.9    40  4.455026e-01  -0.5253968254     9.714974e-03
## 1270    13   1.9    92  8.615385e+00   0.9615384615    -1.561671e-02
## 1271    -7   0.1   -50  3.342614e+00  -0.6698863636     2.957874e-02
## 1272    10   3.8   -25  4.468439e-01  -0.4662236988     1.879032e-02
## 1273    -3   7.3    -9  2.861549e+00   0.4167862267     2.560331e-02
## 1274    -5   0.4    21  7.410853e-01  -0.3173126615    -8.824273e-03
## 1275    -8  -2.1   -21  2.771076e+00   2.3270348837    -4.789369e-03
## 1276     0  -1.2  -173  2.550000e+00   2.3833333333    -5.519095e-03
## 1277    -2   1.5    13 -5.755556e+00   1.7527777778    -1.367973e-01
## 1278    -5  -3.0   -24 -4.038462e-01   0.2603189493    -6.229490e-02
## 1279   -13   9.7    70 -6.236909e+00  -0.1507024266    -8.891837e-02
## 1280   -13   2.8    23 -5.519451e+00   0.7414187643    -8.915615e-02
## 1281    -5  -0.8    38 -3.984127e+00  -2.0132275132    -9.860321e-04
## 1282    15  -4.0   -49  6.846847e-01  -2.7717717718     3.049448e-02
## 1283    10  -4.3    37  8.518519e-01  -0.5648148148     3.369280e-02
## 1284    12  -5.2    -6  2.100000e+00  -0.4095238095     1.497329e-01
## 1285     0  -2.7   -60  4.940171e+00   1.0982905983     8.762840e-02
## 1286     3  -4.7   -16  3.785844e+00   1.3266787659    -5.897128e-02
## 1287    12  -6.2    85 -2.692308e-01  -0.3820512821    -9.820829e-02
## 1288     3   1.0   -56  2.927273e+00  -2.0795454545     5.524379e-03
## 1289     7  -1.0    54 -1.891414e+00   2.1414141414    -5.795997e-02
## 1290    15   0.5     9  4.755654e+00   0.2780487805     4.593134e-02
```

```
## 1291     2  -2.6   37 -4.410714e+00  1.6845238095        -4.035314e-02
## 1292     5   2.1  -75  3.770175e+00 -3.9666666667         1.509125e-02
## 1293   -10  -1.5   44 -5.309091e+00 -2.0618181818        -8.697126e-02
## 1294     5  -2.2   53 -3.498157e+00 -0.4248847926        -2.120188e-03
## 1295     0   4.9   16 -1.882448e+00 -0.5668276973        -2.237208e-02
## 1296   -15   4.6   20  1.328902e+00  0.2662950257         3.982226e-03
## 1297   -13  -5.5   17 -6.336996e-01 -0.7692307692        -9.141332e-02
## 1298    -5  -2.6  114  4.099802e+00  1.8893280632        -1.778798e-01
## 1299     8  -5.7  -69  3.581340e+00 -1.6028708134        -7.199226e-02
## 1300    -3   3.0  -17 -3.145238e+00  0.3404761905        -7.880774e-02
## 1301     5   0.7  230 -3.636364e-01 -0.4242424242        -2.922423e-02
## 1302    10   0.0  -87  8.442857e+00  0.6619047619         6.325673e-02
## 1303     0 -12.5  -54  6.017422e+00  0.1898954704         1.229484e-01
## 1304   -18   5.2   84 -4.977987e+00 -0.9094339623        -9.163411e-02
## 1305    -3   0.6   12 -6.428571e-02  0.0214285714        -3.230766e-02
## 1306     5   2.6   17  1.185507e+00  2.7333333333         4.796848e-02
## 1307    -8  -2.4   27 -7.564103e+00  0.2171303873         2.051062e-02
## 1308     7  -6.1  -41  4.243548e+00 -1.2870967742         1.101344e-01
## 1309    -7  -6.0  -25  6.130952e+00 -0.0109126984         2.444557e-02
## 1310    13   1.3    4  8.399286e+00 -1.5050000000         1.340333e-01
## 1311    10   5.0   33 -2.280111e+00  0.1492537313         2.389155e-02
## 1312    -5   0.3   35 -4.038260e+00 -0.0022505626        -3.043208e-02
## 1313     7  -0.6   52 -1.782051e+00  1.1225071225         6.054860e-02
## 1314   -18  -1.7    6 -7.962719e+00  0.6013157895        -1.040384e-02
## 1315   -15  -0.9  -42 -2.140741e+00  1.2444444444        -3.202250e-02
## 1316     0   4.3   -4 -1.704291e+00  0.4946361940         2.985848e-02
## 1317    -5   1.4   -2  1.370321e+00 -1.1550802139         9.707867e-02
## 1318     5   5.9  215 -3.702381e+00 -0.3214285714        -8.977275e-02
## 1319     0  -7.5   -2 -2.524390e+00  1.9873358349        -3.399218e-02
## 1320    -3   3.5  -42  2.548780e+00  0.8856707317        -9.780698e-03
## 1321     7  -6.2   42 -4.274332e+00  0.8272727273         3.103213e-03
## 1322     2  -0.5  254  9.174825e-01 -0.3608391608        -2.019041e-02
## 1323    -2  -0.3  -11  6.420168e-01 -2.3932773109         4.716183e-02
## 1324     0   5.5  -78 -4.761905e-02  1.4543650794        -2.353823e-02
## 1325     2  -5.7  -27 -1.958221e+00 -0.9005802708        -2.585257e-02
## 1326     5   3.1  118  4.428571e+00 -0.2142857143         1.490479e-01
## 1327    15  -5.6  -78  2.683333e+00  1.2604166667         1.189489e-01
## 1328    10  -1.0    1  1.750000e-01 -0.2652777778        -4.796499e-02
## 1329    12   4.1    6 -4.452918e+00 -0.3419262442        -6.043935e-02
## 1330    10  -0.1   -4  3.556324e+00  0.6343873518         2.968662e-02
## 1331   -15   7.4  -26 -1.055556e+00 -1.7777777778        -3.847132e-02
## 1332    13  -1.1   22  1.641775e+00  1.7013021525        -9.053298e-02
## 1333    10  -0.4  -50  5.558605e+00  0.3602058319         1.027150e-01
## 1334    -7  -1.1  -29  2.591156e+00  0.3996662495         1.471418e-01
## 1335    -2  -0.1  -43  2.500563e+00 -0.8446529081        -7.381647e-02
## 1336   -18   3.7   18 -5.845375e+00 -1.0238095238        -7.475856e-02
## 1337    -5   3.1   21 -4.987698e+00  0.1765873016        -4.348316e-02
## 1338   -10   0.2    8 -2.824561e+00  0.1929824561        -1.323865e-01
## 1339    -5  -1.1   45  1.088922e+00 -2.0168902136         1.086853e-02
## 1340   -12  -1.7  -29  2.363902e+00  0.6209756098         4.694967e-02
## 1341     8   4.5  -14 -1.847696e+00 -1.2861788618         7.408326e-02
## 1342   -13   3.1  -91 -2.386111e+00 -2.0794444444         4.933262e-02
## 1343   -10   1.4    7 -2.611111e+00 -1.2893518519         1.509739e-01
## 1344     8   1.0  -54  4.145089e+00  0.5952380952         2.198543e-02
## 1345     5  -2.0   42  8.595318e-01 -0.0206243032        -2.178012e-03
## 1346    -5   3.6  -41 -2.138655e+00  0.0182072829        -4.086879e-02
## 1347    13   0.8   47 -2.552114e-01 -0.7010125074        -4.845912e-02
## 1348     0  -2.1    9 -4.937063e-01  0.3566433566        -1.138463e-01
```

```
## 1349     7  -1.3   15 -2.289286e+00  0.0428571429   -6.014130e-02
## 1350   -18   2.3    3 -6.685094e+00 -1.8042588043   -3.091823e-02
## 1351   -15   4.0  -59 -1.086504e+00 -0.8611382114    6.799015e-02
## 1352    -5  -7.3   46  4.320494e-01  1.4073401163   -4.922158e-02
## 1353     8  -2.2   -3 -2.797619e-01 -0.5059523810   -5.817835e-02
## 1354    -8   9.8   -7 -4.822128e+00  1.7480851064   -3.492022e-02
## 1355    -8   5.6   36  5.505051e-01  2.4520202020    4.079929e-03
## 1356   -10   5.1  -13  8.146552e-01 -1.9661330049    4.231218e-02
## 1357     0   7.0   25  2.710317e+00 -1.1865079365    1.095334e-02
## 1358     0  -1.6   65 -1.446051e+00 -1.5639599555    1.946943e-02
## 1359   -13   7.1   61 -2.850239e+00  1.0818181818   -7.718202e-02
## 1360    -5   1.8   69  2.070175e+00  2.0516569201   -1.778709e-02
## 1361     0   5.6   15 -3.688889e+00  0.0011299435   -1.014495e-02
## 1362    -5   2.9    6 -5.336898e-01  0.3721925134   -7.200978e-02
## 1363   -16  -0.7   66 -6.254342e+00  1.2121588089   -8.839882e-02
## 1364    16  -4.9  -16  9.022556e+00 -0.5000000000    7.066013e-02
## 1365    11  -6.0   33  5.528846e+00  1.0464743590   -6.438504e-02
## 1366    -2   1.3  -23 -5.001093e+00  1.0553734062    2.715744e-02
## 1367     5   2.9  -44  1.207156e+00 -0.5771019678    6.503766e-02
## 1368     3  -9.0   30 -1.278586e-01 -1.6860706861    1.429290e-02
## 1369     3   4.9  -27  8.197724e+00 -1.6073968706    1.453428e-01
## 1370    18  -6.8  -14  3.615476e+00 -0.8047619048    1.051901e-01
## 1371    -5   0.1   45 -4.017857e+00  0.6607142857   -9.666152e-02
## 1372   -16  -2.0   47 -1.057586e+01  0.9563218391   -9.379397e-02
## 1373    -3   5.8   38  4.180382e-02 -2.0862409480   -4.242686e-02
## 1374     0   2.7   36 -3.272727e+00  1.8569023569   -1.120862e-01
## 1375     8  -0.7  -20  9.283092e+00 -1.7452725250    1.363645e-01
## 1376     8   0.4    5  3.159649e+00  0.2157894737   -5.692244e-02
## 1377    -2  -0.1  -63 -3.185516e+00  0.9880952381    3.567954e-02
## 1378    -3   1.1   -7 -4.356438e+00  0.0091070073   -9.092623e-03
## 1379    -5  -1.3  -29 -4.875768e+00  1.3022540984    6.091313e-02
## 1380    -3   5.8   -1  4.200452e+00 -2.7273755656    2.686610e-02
## 1381   -12   0.6   43 -2.165584e+00  0.1493506494   -8.026006e-02
## 1382    -5   0.8   19 -4.976974e+00  0.1578947368   -3.964288e-02
## 1383   -15  -6.9   15 -2.374266e+00  1.9247943596   -8.229329e-02
## 1384   -10   4.3  -20 -7.127976e-01  0.6562500000   -1.966113e-02
## 1385    -8  -1.7   41 -2.917874e+00  1.1545893720    9.067770e-03
## 1386    10  -5.2  -15 -1.245927e+00 -1.1694862155   -3.034510e-02
## 1387   -15   3.7   41 -5.719595e+00 -0.9983108108   -5.854707e-02
## 1388     0   1.1   24  3.082791e+00 -0.1367441860   -1.887495e-02
## 1389     0  -9.0  -14  7.115516e+00  1.3000852515    7.714105e-02
## 1390    -2   2.6    7  1.747076e+00 -0.5233918129    7.445994e-02
## 1391     5  -0.3   50  7.781202e-01 -0.6221109399    3.642886e-02
## 1392   -10   4.2    3 -6.174366e-01 -0.5182173064    4.187608e-02
## 1393     2   1.1  -15  6.044038e+00  1.9475507175    3.240622e-02
## 1394    13  -3.6   -4  8.639019e+00  0.9174179589    8.313747e-02
## 1395     0  -4.9   26 -2.493245e+00  1.2819945959   -4.330750e-02
## 1396    -2  -6.7  -25  2.984848e+00 -1.1337513062   -1.399685e-02
## 1397     5  -6.5   54 -1.673356e+00 -0.7792642140   -2.583489e-02
## 1398    -3   5.2  -58  3.947368e-02 -3.1315789474    1.418053e-01
## 1399   -10   5.4   21 -4.794258e+00  0.8532695375   -5.480591e-02
## 1400    -5   2.7   40 -2.728630e-01 -0.0093318402   -8.528225e-02
## 1401    15  -5.2  -45  1.214286e+00  1.1369047619   -2.412397e-02
## 1402    15  -5.9  -63  5.186757e-01  2.4711375212    3.268928e-02
## 1403     3  -1.1  -31  8.447059e+00 -0.6705882353    7.941009e-02
## 1404     7  -6.2   16  4.680478e+00  0.5535647630    3.216145e-02
## 1405    10   6.0   -5  5.120952e+00 -0.6152380952   -1.364944e-01
## 1406   -10  -0.4   38 -3.497378e+00 -0.8745461880   -4.173411e-02
```

```
## 1407   16  -4.5  -67  3.365079e+00   0.4857142857       2.347265e-02
## 1408   10  -6.6   19  3.036176e+00   0.3217054264      -1.735368e-02
## 1409  -16   4.9   15 -8.967643e+00   0.6267334361      -5.453020e-02
## 1410   -3   3.2   21 -8.712121e-01  -1.6628787879      -7.649561e-02
## 1411    0   2.7   39 -3.271429e+00   1.5904761905      -8.876906e-02
## 1412   -8  -0.8   -5 -3.370130e+00  -0.7519480519       4.414202e-02
## 1413    8  -1.3   11 -1.275862e+00   0.1206896552       5.311616e-02
## 1414    5  -2.8    5  3.751880e+00  -0.9615705931      -4.496517e-02
## 1415   -2   6.0  -18  3.472336e+00  -1.7657103825       5.929596e-02
## 1416  -10  -0.6   17 -2.862745e+00  -0.9117647059       4.809151e-02
## 1417   18  -4.3   -5  4.011364e+00  -0.0951704545       6.259364e-02
## 1418   -2  -7.0  -31 -4.665340e+00   1.1562189055       3.392015e-02
## 1419   -2   0.2   10 -1.985915e+00   1.0422535211      -9.161516e-02
## 1420   -3  -0.7  -10 -8.684980e-01  -1.3512565751       5.754449e-02
## 1421    5  -1.9   -3 -2.736559e+00   1.9139784946      -2.424717e-02
## 1422   12   1.0   23  4.515942e+00   0.4454106280       4.343056e-02
## 1423    8  -5.1   12  7.419962e-01   2.2304613936      -1.350860e-01
## 1424    3  -4.2  -29  9.984802e-01   0.3285714286       3.674935e-02
## 1425    0   2.1   -9  6.321596e-01  -0.3312206573       1.155775e-01
## 1426  -10  -7.7  168 -3.441239e+00   0.1773504274      -3.950158e-02
## 1427  -18  -4.8   17 -3.110372e+00  -0.0711436170      -6.181434e-02
## 1428    5  -2.1    3  3.129838e+00   0.0745953554       6.567387e-02
## 1429   -5  -7.5    5 -3.167742e+00   0.3333333333      -2.702643e-02
## 1430   -3  -2.5   25 -3.055612e+00  -0.8357142857      -4.419336e-02
## 1431   20  -6.7  -76  3.986742e+00   0.8248106061      -9.119494e-02
## 1432   -5   2.9  -23  1.305263e+00   0.8236842105       3.425748e-02
## 1433  -10   2.4   44  2.510776e+00  -2.0587284483      -2.798245e-02
## 1434    3  -4.3  -49  2.540921e+00   0.9181585678      -3.663028e-02
## 1435    6  -5.2   34  4.630631e+00  -1.6186186186       1.812011e-02
## 1436    5   5.3   31 -3.590909e+00   0.2373737374      -3.658192e-03
## 1437    0  -4.2  -53  4.501712e+00   0.4394977169       9.378832e-02
## 1438   -3   3.1   46 -5.874410e+00   0.7735849057      -4.337904e-02
## 1439   15  -4.6   29 -7.218182e-01  -0.2387878788      -1.723633e-01
## 1440  -10   6.4  -11  3.183547e+00   1.1190574618      -1.289794e-02
## 1441    7   3.1   50 -2.642639e+00   1.7909992372      -2.614030e-02
## 1442   -8  -6.2   40 -3.772569e+00   1.4003472222      -5.976361e-02
## 1443    5  -4.9  -25 -5.306726e-01  -1.2867701404       3.844067e-02
## 1444  -15  -1.5    3 -5.303922e+00  -1.4873949580       1.385467e-01
## 1445    5   2.8  -12  4.997802e+00  -1.3989010989       1.158319e-01
## 1446    8  -5.8  -57  4.941569e+00   0.4376470588       8.894784e-02
## 1447  -15   3.7  -53  2.259307e+00  -1.6632034632       2.274855e-01
## 1448    5  -2.0   -3 -2.512569e+00   1.9014139827      -7.170322e-03
## 1449   18  -0.5  -95  6.010989e+00   0.3692307692       9.861057e-02
## 1450   -5   4.2  102  1.127193e+00   2.6929824561      -6.865281e-02
## 1451    3  -6.5   -8  3.309524e+00   0.8809523810       1.313436e-02
## 1452    2   0.4   17  1.375676e+00  -0.3824324324       7.287873e-02
## 1453    0   0.0   67 -5.254545e+00   1.5454545455      -2.296553e-01
## 1454    8   7.1   27 -2.704733e+00  -1.6287451151      -1.900234e-02
## 1455    0  -5.9   33 -1.246934e+00   2.2987736901      -7.556162e-02
## 1456    0   2.6  -47 -3.826923e+00  -2.7500000000       6.373341e-02
## 1457   12  -0.4   18 -2.383963e+00  -0.0935462842      -3.722254e-02
## 1458   -5   6.9  -30 -2.803030e-01   0.3181818182      -4.344283e-03
## 1459   -5  -4.5   26 -4.191033e-01  -2.1101364522       7.144823e-02
## 1460    5   0.0    1 -2.781168e-01  -1.4010462075      -7.357761e-02
## 1461    8  -6.0    5 -2.625000e-01  -2.7500000000      -1.461401e-01
## 1462    3  -1.9   25 -3.042781e+00   1.4411764706      -1.480198e-01
## 1463    0  -0.1  -18  2.187500e+00   0.3756720430       2.057039e-02
## 1464   -8   9.0    4 -2.583554e+00  -1.0411140584      -7.449383e-02
```

```
## 1465   -20   -1.2    84 -4.086158e+00  1.5423728814   -2.064341e-01
## 1466   -13    0.8    82  4.242424e-02  0.7181818182   -8.990312e-02
## 1467     0    1.4   -88 -3.062543e+00 -1.1247436774    6.980601e-02
## 1468     7   -0.1    17 -1.585709e-01 -0.3195503814    2.134622e-02
## 1469   -30   -4.6   -39 -1.252179e+01  0.2615384615   -8.720358e-02
## 1470     0   -0.2   -62  4.894253e+00 -1.1157088123    2.607961e-03
## 1471     3    4.2   -48  8.875598e-01 -0.2133971292   -4.111849e-02
## 1472    10   -6.7   -72  2.085870e+00 -1.4231069477    1.416423e-02
## 1473    -5    0.8    52 -3.714286e+00  0.8201058201   -2.324773e-03
## 1474     7    6.1     7  1.063348e-01 -0.9638009050    8.837888e-02
## 1475     0   -0.1   115 -4.560135e+00  1.9945945946   -1.132617e-01
## 1476    -8   -1.4   106 -5.235075e+00  2.0049751244   -2.612251e-01
## 1477    -5    2.2   -23 -5.179487e+00 -1.6440422323    1.531949e-02
## 1478     7   -2.0    44  2.319688e-01  0.6393762183   -9.278126e-02
## 1479   -30   -2.3   -51 -1.514120e+01  0.5046296296   -1.234832e-01
## 1480    10   -0.8   -42  3.341897e+00 -2.0454545455   -5.181088e-02
## 1481     0    1.8    20 -6.145137e+00  0.7758358663   -1.153319e-01
## 1482     2    5.5   -49  4.000000e+00 -1.9720496894    1.164430e-01
## 1483     8   -4.6    26  4.491667e-01  1.3656250000   -9.011140e-02
## 1484    13   -0.5   -15  9.844920e-01 -0.1820855615   -7.669291e-02
## 1485     7   -5.0   -21 -3.608887e-01 -1.0242831310    3.882070e-02
## 1486    -5   -3.9   -11  2.127660e-02 -0.0425531915    3.276479e-02
## 1487     3   -3.7    11  2.187500e+00  1.2017543860   -2.165298e-02
## 1488     2    4.7    39  2.976190e-02 -0.5476190476   -1.566888e-01
## 1489    -7    0.1    20 -4.228571e+00  1.1563636364   -8.726835e-02
## 1490    -3    1.9    -4 -4.014881e+00  0.4196428571    6.410402e-02
## 1491     7    3.7   -63  2.028620e+00  0.2121212121    7.126885e-02
## 1492     3   -1.4     6  7.340659e-01 -0.6813186813    2.257132e-02
## 1493    -3    2.3    -6  1.008457e+00  1.2827695560    3.008868e-02
## 1494     3   -3.5   -35  3.045367e+00  0.4285714286   -2.939118e-02
## 1495   -15    4.5     5  1.206122e+00  0.2547619048   -1.229462e-03
## 1496    15   -9.6   -72  4.398930e+00 -0.6117647059    8.517394e-02
## 1497     2    5.4   -30  5.161765e-01 -1.6367647059    5.337815e-02
## 1498    -8    4.4    13 -2.327805e+00  0.9321951220   -3.653087e-02
## 1499    -2   -2.5   -13  2.411321e+00 -0.6075471698   -1.515158e-02
## 1500   -10    1.3     1 -2.404762e+00 -0.9095238095   -1.330307e-01
## 1501    -5    0.8    27  3.163187e+00  0.9241758242    4.380975e-02
## 1502    12   -2.6   -30  1.936735e+00 -0.3066326531    3.526930e-03
## 1503     5   -4.8     4  3.881944e+00  1.5208333333   -1.303438e-01
## 1504    -3   -0.4    -4  4.314922e+00  2.7601744186   -1.802918e-02
## 1505    -5    4.1   -60  1.038462e+00 -1.8755656109    7.396110e-02
## 1506   -18   -1.1    31 -3.008156e+00 -0.5960992908   -1.034046e-02
## 1507   -12    2.5    -8  2.531525e+00 -0.2067448680    4.364875e-02
## 1508     5    0.3   -61  4.025000e+00  0.5304347826    5.192763e-02
## 1509   -13    7.0   -39 -5.515152e-01  0.9939393939   -2.430531e-02
## 1510     5   -5.1   -55  4.162955e+00  0.1082995951   -1.560045e-02
## 1511     8   -5.6   -20  2.764610e+00  0.7987012987    8.490625e-02
## 1512     5   -2.6    17  2.168276e+00 -1.0655172414    2.504007e-02
## 1513    -5    2.3   -32 -4.309524e+00  0.5095238095   -2.354543e-02
## 1514    -5   -2.3   -24  1.640212e+00  0.5132275132    7.344643e-02
## 1515    16    2.0   -42  1.046667e+01 -0.7333333333    5.086507e-02
## 1516     3   -6.4    -8  7.075472e+00  0.8258345428    4.609166e-02
## 1517    15    4.1    38 -1.850137e+00 -0.4246116357    3.389685e-02
## 1518     2   -0.8    25  1.926740e+00  3.6562009419   -3.232755e-02
## 1519     3   -1.5    27  3.609805e+00  0.7036367290   -3.477742e-02
## 1520     3    3.9    -8 -2.795224e+00 -0.3805894309   -5.330368e-02
## 1521     0   -0.1   -33  2.575439e+00  1.2339181287   -3.728323e-02
## 1522    -3   -2.7   -26  2.462449e+00  0.8168701443    3.492154e-02
```

44

```
## 1523   -26   3.3     7 -1.412432e+01  0.7932604736   -1.058168e-01
## 1524    -8  -0.4    -1 -3.094223e+00 -0.0241477273    3.144611e-02
## 1525     2  -2.2   -10  1.586364e+00  0.6990909091    5.992921e-02
## 1526    13  -5.6    57  1.496196e+00 -0.1282608696   -3.803937e-02
## 1527     7  -3.7   -17  3.187831e+00  0.8042328042    1.356299e-02
## 1528    -3   3.7    13 -4.640031e+00  1.0560125343    2.037734e-02
## 1529     3  -2.3    -7  4.614594e+00  1.0792703151   -2.930467e-02
## 1530     5   0.3    20  2.449643e-01  1.3966861598   -4.557866e-02
## 1531   -10   1.1    11 -3.215458e+00 -0.3019835841   -9.218350e-03
## 1532     5  -7.9   -92 -1.135577e+00 -0.8846153846    1.140788e-01
## 1533   -11   1.9   -56  1.709402e+00 -1.0119658120    1.231107e-01
## 1534    -5   5.7  -155  3.977193e+00  0.5736842105    8.505671e-02
## 1535     3   2.2   -72  7.663187e+00  0.3456043956    4.923417e-02
## 1536    26  -4.1   -49  1.255731e+01  0.3380233356    5.443898e-02
## 1537    -7   4.9   -77 -2.706897e+00  0.7665782493   -1.065141e-03
## 1538   -15  -0.8    42 -7.415800e+00  1.5031185031   -9.005813e-02
## 1539     0  -0.7   -15  7.196759e+00  1.1203703704    8.009349e-02
## 1540     0  -0.8   -33 -2.666667e+00  0.1422663358    2.581821e-02
## 1541    10   0.7    33  8.902439e-01  0.5053215078   -5.753698e-02
## 1542    -5   3.1    44 -7.151006e+00 -2.3119429590   -1.034670e-01
## 1543   -13   7.0    47 -4.853448e+00 -0.4633620690   -1.567319e-02
## 1544   -12   7.2    32 -1.112966e+00 -0.4950819672   -2.769142e-02
## 1545     3   0.9    17 -4.523469e+00 -1.4346938776   -6.096745e-02
## 1546    17  -6.1   -62 -6.978355e-01 -0.0142857143    2.194077e-02
## 1547    -3   1.1    44 -2.902705e+00 -0.0161366872   -8.219726e-02
## 1548   -15  -0.8   -87 -4.954545e+00 -1.8181818182   -1.264481e-01
## 1549    -5  -2.9   -29 -9.200969e-01  0.5970252508   -4.141730e-02
## 1550     5  -1.1    21  3.006452e+00 -0.0774193548    1.951678e-01
## 1551    10  -5.1   -96  3.437179e+00 -1.7538461538    4.757484e-02
## 1552    -2   2.6   -30  4.711806e+00 -1.2361111111    2.509419e-02
## 1553     0  -3.9    98  1.085714e+00  0.4571428571    1.378915e-01
## 1554   -12   2.4   -11 -8.866155e-02  0.9011082694   -3.262570e-02
## 1555     0  -2.6    24 -8.455285e-02 -0.9739837398   -1.736717e-02
## 1556    10  -3.1    31 -3.604167e+00  0.2604166667   -1.006412e-01
## 1557    -8   7.6    74 -2.674359e+00 -2.1692307692   -7.578048e-02
## 1558    -2  -5.2  -110  5.971429e+00 -1.1333333333    6.077705e-03
## 1559   -10  -0.5   132 -6.284542e+00  0.3823529412   -3.505689e-02
## 1560    -8   3.1   170 -3.237681e+00 -0.3246376812   -1.897107e-02
## 1561    25   5.8    -8  1.117857e+01 -1.0535714286    1.457824e-01
## 1562     2   1.1    39 -1.098039e-01 -1.5624183007   -9.123116e-02
## 1563     8   0.9   -88  1.029228e+01 -0.4301470588    1.248940e-01
## 1564    -5   2.3    15 -5.733083e+00 -3.4849624060   -5.405498e-02
## 1565     0   2.9   103 -4.655556e-01  1.2544444444   -1.018268e-02
## 1566     5  -0.2    59 -1.787594e+00  1.1146616541   -1.460022e-01
## 1567    -2   0.8    27 -2.687984e+00 -0.3294573643    3.345008e-02
## 1568     0   2.0   -35 -5.220186e-01  2.1067180971   -5.074476e-02
## 1569    10   0.3    33 -4.650370e+00 -0.7022222222   -3.204074e-02
## 1570     0   2.8   -56  4.970760e-01  0.0444444444    3.305349e-03
## 1571     3  -1.5    59  2.502747e+00  0.8159340659   -2.875849e-02
## 1572    -8   5.4    54 -6.913525e+00  1.2651639344   -1.047923e-01
## 1573    21  -4.0    63  8.597878e+00  1.6682738669   -1.782648e-02
## 1574    -5  -5.5    25 -5.425000e+00  0.7050000000   -1.277097e-01
## 1575     3  -1.4    -3  5.555556e-01 -0.6742424242    1.292822e-02
## 1576     0   6.2   -95  1.538462e+00 -1.2564102564    1.255754e-01
## 1577    11  -1.1   115 -4.409171e-03  2.5529100529   -1.151290e-01
## 1578     5 -11.1   168 -7.027444e+00 -0.4305317324   -8.432304e-02
## 1579    21  -6.4   -46  1.251266e+01 -0.5092235092    7.979302e-02
## 1580   -10   0.8    44 -2.543374e+00 -0.9426229508   -7.214105e-02
```

```
## 1581     5   -4.7    88 -1.485472e+00  1.8559322034   -1.952643e-01
## 1582     5    8.5   -74 -5.375000e+00 -2.4750000000    1.217690e-01
## 1583    -2    4.0    93 -3.149264e-01  1.8179384203   -1.536987e-01
## 1584     2   -7.4    -9  8.845161e-01  0.0464516129    5.083057e-02
## 1585    -2   -1.2   -38  6.147143e+00  0.3500000000    9.571179e-02
## 1586     0    6.9   -60  2.900536e-01 -0.7194758785    1.154453e-01
## 1587     5    2.9   -54  7.055556e-01  0.1944444444    9.611796e-02
## 1588    -5   -0.3    74 -4.355328e+00  1.3401639344   -4.178063e-02
## 1589    18   -1.9   -29  1.109890e+00 -0.0835164835    1.729808e-02
## 1590    -2   -2.0    41 -7.424242e-01  0.2424242424   -1.317433e-01
## 1591    12    6.2   -46  1.214096e+00 -2.0704787234    1.242924e-01
## 1592     8    0.6   -40 -1.617811e+00  2.7733457019   -1.970702e-02
## 1593    -2   -2.1   -61  3.317606e+00 -1.0718309859   -6.513238e-02
## 1594    -3    4.0   105  7.832468e+00  2.2090909091    7.178279e-02
## 1595    -5    2.4    78  3.900256e+00 -0.6760443308   -9.905646e-02
## 1596    -8    0.9    91 -1.005580e+01 -0.2413043478   -1.925719e-01
## 1597     5   -3.1    34  3.716965e+00  0.6317135550    2.738537e-02
## 1598    15   -1.5   -79  7.322581e+00  1.7812903226    5.384157e-03
## 1599    -8   -0.4    35 -6.347431e+00 -0.2363636364   -1.363129e-01
## 1600    -3    3.6    29 -1.887713e+00  2.4542107685   -9.710046e-03
## 1601   -10   -0.3   -19 -2.686275e+00  0.5749525617    2.084931e-02
## 1602    -2   -3.4    32 -2.624191e+00  1.0455696203   -7.765160e-02
## 1603     8   -6.4   198  4.207317e-01  1.3678861789   -6.605339e-02
## 1604     8    3.4     5  1.033619e+01 -0.1723790323   -3.544713e-03
## 1605     0   -8.2    88  5.548701e+00  3.4480519481   -1.158175e-01
## 1606    -8   -3.6    33 -1.725490e+00  0.0980392157   -5.319818e-02
## 1607     0    4.1   -11 -1.236764e+00 -0.4028137727    1.343985e-02
## 1608    -2    4.0    27 -3.749075e+00  1.1372289794   -7.191238e-02
## 1609    11    0.8   -27  1.877444e+00 -0.3336136220    2.684612e-03
## 1610   -10   -6.1    73 -2.805970e+00 -0.9815627744   -8.564067e-02
## 1611   -10   -6.4    -2 -3.597222e+00  0.1138888889   -1.307832e-02
## 1612    -5   -1.3   -24 -4.742455e+00  1.2959758551    5.007000e-02
## 1613    -2    4.6   -54  5.471429e+00 -1.5988095238    9.298013e-02
## 1614    10   -1.5    -7  2.318536e+00  1.2588108690   -1.666790e-01
## 1615   -13    3.7     9 -2.291174e+00 -0.3518518519   -6.114245e-02
## 1616     0   -1.0   -43  1.720192e+00 -0.5538461538    1.073523e-01
## 1617   -13    2.3   -14 -3.644865e+00 -1.0248613502   -4.291102e-02
## 1618   -21    8.7  -145 -1.420000e+01 -1.8647058824    5.645860e-02
## 1619    13    4.3   -42  8.750000e-01  0.5192307692    6.416484e-02
## 1620     7   -6.0    -6  2.053333e+00 -0.0907936508    2.475842e-02
## 1621     8   -1.8    -3  2.054739e+00 -2.3864379085    2.308895e-02
## 1622     5   -1.8   -11 -4.089331e+00  1.8892533282    7.461043e-02
## 1623    -5   -2.5    11 -5.696479e+00  0.9518779343    2.634163e-02
## 1624     5    0.7   -50  3.945216e+00 -0.6959876543    1.638702e-01
## 1625    10   -4.1    -6  6.237542e-01 -0.0326688815    8.355823e-03
## 1626    10    1.5   -41 -6.314858e-01 -0.3576061321    1.768673e-02
## 1627    -8   -1.7    -3 -3.515791e+00  1.6569634703    3.281740e-02
## 1628     2    3.6   -17  1.086765e+00 -1.0683726509   -6.042364e-02
## 1629   -15    5.1     2 -5.162511e+00 -0.7678160920    1.689548e-02
## 1630    -3    5.8    -1  3.948836e+00 -2.5925070144    1.853885e-02
## 1631     2    0.0     2  3.978296e+00 -1.5233415233   -3.188374e-02
## 1632    -3   -6.4   -84 -4.247059e+00  0.0991596639   -1.180490e-01
## 1633    10  -10.1   -55 -9.534884e-01 -0.8726467331    2.241455e-02
## 1634    -2    0.5     5 -5.454545e-01  2.4606060606   -1.241674e-01
## 1635   -10   -1.9     6 -2.457143e+00 -3.1142857143    1.853102e-01
## 1636    -2   -2.8    24 -1.530653e+00  0.2860909690   -1.740994e-01
## 1637    -5    0.6    49 -5.742424e+00 -0.7878787879   -2.129089e-02
## 1638   -12   -5.1   -43 -1.880952e+00 -0.1190476190   -3.679359e-02
```

```
## 1639      5    0.4     -2  4.642857e-01 -0.4321428571         3.331595e-02
## 1640     -7    1.2     38  4.067633e+00  0.9782608696        -9.929835e-04
## 1641      5   -6.4    -55  7.333333e+00 -0.3833333333         3.183152e-02
## 1642     12    8.4     34  1.110345e+01 -0.9310344828         1.525038e-01
## 1643    -16    3.8    -14 -8.743056e+00 -2.3333333333         3.352319e-02
## 1644      2    2.9    -40  2.566719e+00  0.2127158556        -4.183086e-02
## 1645     18   -7.0    -75  5.029830e+00  1.5340909091         1.766394e-01
## 1646      5   -4.8    -25 -5.248561e-01 -1.0549450549         7.173274e-02
## 1647     16   -7.4     57  1.204668e+01  0.2555282555         6.495321e-03
## 1648     10   -0.7   -113  2.006410e+00  0.5705128205         4.234488e-03
## 1649      5    6.6    -17  2.498775e+00 -1.6801470588         2.186310e-01
## 1650      8   -3.3     89  2.440476e+00 -1.1450216450         7.576717e-03
## 1651      8    4.5    -22  1.477987e+00 -1.6111111111         1.321833e-01
## 1652     -3   -4.4     78  2.297010e+00 -0.8249409913         1.731211e-02
## 1653    -28    1.1     31 -7.967033e+00 -0.3677655678         3.302934e-02
## 1654     -2    2.7      2  4.329574e+00 -0.2406015038         3.904014e-03
## 1655     -3    4.4     15  8.333333e-01  1.5552380952         4.598734e-02
## 1656     -3    8.3    -64  2.569565e+00 -1.1434782609         1.951732e-02
## 1657     -8    5.0     18 -3.203077e+00 -0.8800000000        -3.180431e-02
## 1658      8    5.9     36 -2.929864e-01  0.1402714932        -3.865340e-02
## 1659     -5    1.4     37 -2.111111e+00  0.5511111111         2.903322e-02
## 1660    -11    9.8     36 -1.402193e+01  0.6228070175        -3.171071e-02
## 1661    -10   -5.8     69 -3.815957e+00  1.3425531915         1.734999e-04
## 1662      0   -3.8     59  2.985185e+00  1.0481481481         2.820640e-02
## 1663     -3   -3.2    -28 -1.309656e+00 -1.1054384018         5.452498e-02
## 1664    -23    4.1     41 -5.600000e+00  1.1250000000         8.892440e-02
## 1665     -2   -8.3     18  2.517028e+00 -0.5933952528         2.404250e-02
## 1666      5    1.6    -55 -3.280506e+00  0.3720238095        -4.598049e-02
## 1667    -10    0.6     25 -4.416422e+00  1.8240469208        -5.206070e-02
## 1668     10    4.5    -18 -2.415825e+00 -0.4494949495        -8.550600e-04
## 1669     -5   -1.2    100 -3.236695e+00 -0.0784313725         6.231466e-02
## 1670    -20   -2.2      8 -5.578862e+00 -0.2617886179         4.689582e-02
## 1671      0   -6.4      8  1.624126e+00  0.5000000000         7.421565e-04
## 1672     -2   -5.1     16 -1.505983e+00  2.7423076923        -9.943621e-04
## 1673    -23    1.2     51 -6.964286e+00 -1.3809523810         5.729198e-02
## 1674     -8    5.6    -17  1.886792e-02  0.6981132075        -6.494353e-02
## 1675     -3   -2.6     51 -2.707160e+00 -0.1639506173        -7.678404e-02
## 1676     -5    0.4   -198 -4.340580e+00  1.4039855072         1.805759e-01
## 1677      2    0.1      2 -1.731260e+00  0.7488038278        -4.957126e-02
## 1678     12    8.4      3  1.690000e+01 -1.8333333333         1.660523e-01
## 1679     15    0.1    -32  6.021390e+00 -1.6720142602         1.087824e-01
## 1680     -8    4.5     14 -2.104515e+00  1.0367892977        -2.098619e-02
## 1681      7   -3.8     43 -4.523893e-01 -0.1287059644        -3.788202e-02
## 1682     -7   -4.0      8 -9.779682e-01 -1.4394124847        -8.275650e-02
## 1683     10    0.7     37  7.629870e-01  0.4529220779        -4.292830e-02
## 1684    -13   -0.1     96 -5.068356e+00 -0.7526881720        -9.460994e-02
## 1685    -10    3.4   -408 -9.331034e+00 -0.8482758621         6.154610e-03
## 1686     -8   -4.4     17  2.151984e+00  1.2043650794        -7.752214e-02
## 1687      8   -1.1    -53  4.014260e+00  0.2682709447         1.535764e-01
## 1688     15    0.3     14  6.919192e-01  1.8535353535        -1.194865e-01
## 1689     -3    3.8    -36 -1.089500e+00 -0.1916842847        -1.613920e-02
## 1690      5   -1.4    -23  2.583333e+00 -1.1250000000        -3.689244e-02
## 1691     -3   -9.0     17  1.309524e-01  2.3849206349        -4.738058e-02
## 1692     -2   -5.0     23 -1.516103e+00  2.5112721417        -3.654783e-03
## 1693    -12   -1.1     12 -4.908462e+00 -0.5230769231        -3.358893e-02
## 1694     13    4.6    -47  1.000000e+01  0.5000000000         4.509887e-02
## 1695     -5   -0.5     11 -4.283753e+00 -0.1544622426        -1.740170e-01
## 1696      0    4.6    110  1.350000e+00 -0.6250000000         2.262298e-02
```

```
## 1697   -13    7.0    31 -2.162768e+00  1.1842105263       -5.416147e-02
## 1698    -8    2.3    19 -3.130146e+00  1.2467775468       -6.525226e-02
## 1699   -11   10.4   -39 -9.820029e+00 -1.1712626996       -3.993907e-02
## 1700     0   -6.8    27 -4.931439e+00  0.4443181818       -2.355502e-02
## 1701     2    6.4    32 -8.300654e-01 -1.8692810458        5.315925e-02
## 1702     5   -4.9   -29  4.865079e+00  0.7888888889       -6.258127e-03
## 1703     2   -2.0    -9 -7.005594e+00 -1.5804195804        1.748583e-02
## 1704     0    2.7   -64 -2.914099e+00 -2.7449922958        1.053829e-02
## 1705    -7    1.9    15 -9.150867e-01  0.3374344494       -4.092348e-02
## 1706     0    5.8   -63 -3.604747e+00 -2.4530443756       -7.122306e-02
## 1707   -15    0.9    32 -3.058609e+00 -0.8558427375       -7.475349e-02
## 1708   -20   -4.7  -113 -1.465899e+01  2.3847926267       -8.876800e-02
## 1709    10   -6.3    40  5.402617e+00 -1.0736457699        2.241665e-02
## 1710   -15    8.3    53 -3.670844e+00  1.8441938179       -6.457387e-02
## 1711     0    3.7   -38  3.190909e+00 -0.3090909091        6.884795e-02
## 1712    -8    4.6    19 -5.003845e+00 -0.5972122086       -2.100800e-02
## 1713   -13    0.9  -371 -7.095137e+00 -1.4397463002       -6.168960e-02
## 1714     0    0.0    53 -1.765873e+00  0.0261904762       -3.727901e-02
## 1715   -15    7.4   -17 -1.239969e+00 -0.1944175228       -8.221073e-02
## 1716    10    3.0   -36  3.719697e+00  1.7954545455       -1.014763e-01
## 1717     5   -1.4   -72  6.066667e+00 -0.4466666667       -1.696453e-02
## 1718     2    4.9     4 -1.465039e+00  0.3614502405       -1.795406e-02
## 1719    -8   -0.9   -72  4.545455e+00  0.9230769231        1.275672e-02
## 1720     2    8.3     2 -5.477083e+00 -0.7906250000       -6.074218e-03
## 1721   -11    2.8   144 -1.890980e+00  0.2227450980       -6.063651e-03
## 1722    11  -11.0   -86  1.159307e+01  0.2532467532        1.183591e-01
## 1723     8    7.3    14 -6.461442e+00 -1.7272727273       -2.498731e-02
## 1724    -5    5.1     9  9.523810e-01 -0.1428571429        7.667556e-02
## 1725     5    3.7    24  3.756667e+00  0.5345238095        5.581279e-02
## 1726     7    6.0    26 -6.479724e+00 -0.0627696290       -1.391861e-02
## 1727    10   -2.2    -6  5.498566e+00  0.5463759801        8.286251e-02
## 1728     0    2.8   -40 -6.830986e-01  2.9977992958        5.215961e-02
## 1729    -5    7.9    46 -6.949675e+00 -0.4139610390       -4.886620e-02
## 1730     5   -2.6     4 -1.578299e+00 -0.0604133545        6.410631e-02
## 1731   -18    7.6  -414 -7.382353e+00 -1.2303921569       -7.908453e-02
## 1732     3    3.2   -19 -9.156983e-01 -0.6024151287       -4.462568e-02
## 1733    21   -0.5    10  8.466667e+00 -1.7857142857        7.102590e-02
## 1734   -10   -6.2     5 -3.813684e+00  0.7905263158        1.679774e-02
## 1735     0   -1.5    20 -9.433333e-01 -0.6366666667       -5.738151e-02
## 1736    10   -4.9   475  7.166667e+00 -0.7094017094        4.695839e-02
## 1737    -5   -6.0     3 -7.298475e-01  0.8769063181        1.050086e-01
## 1738     5    0.6   -14 -8.288770e-01  0.4962566845        8.805476e-03
## 1739     8   -7.1    75  1.036558e+01 -1.6318493151        6.232264e-02
## 1740   -13   -7.8    66 -4.761111e+00  3.4333333333       -1.186206e-01
## 1741    16   -3.1    67 -3.931373e+00  1.9803921569       -9.487653e-02
## 1742   -10   -3.6   -71  1.570048e-01 -2.6497584541       -3.545970e-02
## 1743     5    1.6   -43  2.276224e+00 -0.6660839161        8.659651e-02
## 1744     3   -4.9   -40  2.726786e+00  1.0178571429       -3.196340e-02
## 1745     0    3.1    -7 -2.813090e+00 -0.7753036437       -3.210917e-02
## 1746     0    2.4    33  1.079853e+00 -0.1882783883        1.489248e-03
## 1747     8    0.4    26 -4.359480e-01 -2.2093023256       -1.558388e-02
## 1748    -5   -0.6    30 -1.778156e+00  0.1111111111        4.207578e-02
## 1749    -8   -8.4    28 -6.774859e+00  1.2321763602        8.787108e-03
## 1750   -35    0.8    -8 -1.749199e+01  1.2427884615       -1.764075e-01
## 1751     3   -8.7   -33  5.422554e+00  0.6725543478        9.242961e-02
## 1752     5    1.2   -95  3.282143e+00  0.3523809524       -3.986783e-02
## 1753     8    1.7   -45  2.852159e+00 -1.3637873754       -3.243937e-03
## 1754     8    3.5  -274  5.064835e+00 -1.1868131868        2.338387e-02
```

48

```
## 1755    12    4.6    -50 -2.199413e-01  -0.3152492669   -1.242754e-02
## 1756    -5    3.6      6 -1.572461e+00   0.1216378964    1.845616e-02
## 1757   -10    1.1     35 -5.363370e+00  -1.8275946276   -9.348504e-02
## 1758     8    0.8     30  4.640316e+00  -0.5276679842    1.633372e-01
## 1759    -5    4.4     38 -1.269757e+00  -0.5904255319   -6.320157e-03
## 1760   -15    0.0     -3 -5.669683e+00  -3.3755656109    1.122492e-01
## 1761     0    2.1     31 -8.353034e-01  -2.9141055950    1.875639e-02
## 1762   -10    2.6    -18 -4.199495e+00   0.3585858586   -3.981316e-02
## 1763     8    2.9     51 -3.687500e-01   0.8531250000   -1.591275e-01
## 1764    15   -5.9     18 -4.545455e-01   1.3363636364   -6.451358e-02
## 1765     0   -3.4     60 -5.710714e+00   1.2476190476   -4.365577e-02
## 1766     2   -2.5   -165 -3.373585e+00  -0.0283018868    6.509960e-02
## 1767    -3    2.5     85  6.023256e+00   1.6124031008    3.357520e-03
## 1768    -2   -2.7     29 -1.591492e+00   0.1800699301   -1.650386e-01
## 1769    10    6.0    -46  7.095283e+00  -0.4867924528    3.280314e-02
## 1770    10    1.0     84  2.988491e+00   0.4744245524   -5.334400e-02
## 1771   -13   -4.0      2 -6.198854e-01   1.4574468085    1.274448e-02
## 1772    -7    2.8    -37  1.761273e+00   0.1516357206    8.492244e-03
## 1773    -7   -2.6     -8  3.121875e+00  -0.1375000000    4.433893e-03
## 1774     0    2.2     58 -4.771261e+00  -0.3709677419   -1.503918e-01
## 1775    -8   -3.8    115 -4.704071e+00   1.0983118173    8.447938e-02
## 1776     8   -7.1     50  1.013514e+01  -1.5771065183    8.470360e-02
## 1777    -5    1.7    -87  1.970085e+00  -1.2029914530   -5.403381e-02
## 1778     5   -0.7     27 -4.333333e+00  -0.3859649123   -1.011406e-01
## 1779    -8   -1.8     43 -5.431770e+00   0.4849841939   -7.637488e-02
## 1780     0    2.5    -22 -1.265625e+00   0.2552083333    1.247033e-02
## 1781    -3    7.3      9  1.235294e+00   0.0931372549   -4.427373e-03
## 1782    13   -4.5    -32 -4.190476e-01  -0.1095238095    7.440969e-02
## 1783     7   -2.8    -32  1.905000e+00  -1.4450000000    1.019179e-01
## 1784     8   -1.8   -115  3.427033e+00  -1.1519138756    1.110616e-01
## 1785    15   -3.8    236  3.875000e+00  -0.1416666667    4.526892e-02
## 1786    -2   -5.6     62  3.993921e+00   0.0479567714    5.037831e-02
## 1787    -3    4.2     19 -7.037037e-01  -0.1187739464   -1.351874e-02
## 1788   -28    3.6     81 -9.779018e+00  -2.2790178571    1.138194e-02
## 1789     3   -6.5     30 -1.115064e+00   2.2477564103   -5.266171e-02
## 1790     2   -1.6    119  2.968354e-01   0.4575949367    5.842160e-02
## 1791    -3   -5.9     92 -4.188304e+00   0.3017543860   -6.707725e-02
## 1792     2    2.0    -81 -5.592593e-01  -0.9555555556    1.181631e-01
## 1793     5   -2.8      5  6.500265e+00   0.0108753316    5.753649e-02
## 1794    15    3.7     41 -1.067385e+00  -0.9191374663   -1.319079e-01
## 1795    -2    3.1    -21  5.277117e-01  -0.2235229559   -6.401134e-02
## 1796   -11   12.1      6 -1.119512e+01  -0.1639566396   -1.020559e-01
## 1797     8   -1.6   -125  3.653139e+00   0.4177489177    3.454345e-02
## 1798     8   -1.5    -62  6.689189e+00  -1.3513513514    1.367551e-01
## 1799     0   -0.4     12  1.250958e+00  -0.8402298851   -6.051919e-02
## 1800   -15    6.3    -17 -2.953283e+00   0.1085858586   -9.632383e-02
## 1801    25  -10.4    191  8.739329e+00  -0.0533536585    1.973102e-01
## 1802   -15   -1.2    -10  2.110795e+00   0.5303030303    1.085764e-02
## 1803     5   -4.2     24 -2.633985e+00  -0.6792365707    5.917664e-03
## 1804    10   -5.8      1  9.822281e-01   1.0994694960    2.591919e-02
## 1805    -2   -1.0    -15  3.891193e+00  -0.0482954545    1.371860e-01
## 1806    -6   11.1     51 -6.957895e+00   1.1000000000   -7.415266e-02
## 1807     3   -3.3    -19  3.747669e+00  -0.1881355932    5.412233e-02
## 1808   -10    6.1   -290  1.430588e+00  -1.4909803922   -1.106467e-02
## 1809     7    5.6     20 -5.215385e+00  -0.4461538462   -1.434536e-01
## 1810    -8    9.0    -42 -6.469492e+00  -0.7279661017   -6.087206e-02
## 1811    -7   -6.0    -22  6.235129e+00   0.1195286195    1.228252e-02
## 1812    -8    8.3    -51 -4.610902e+00  -1.4291979950   -1.718325e-02
```

```
## 1813     -5   -3.5    77 -4.453333e+00  0.4904761905  -1.164781e-01
## 1814      3   -3.2   -36  5.776667e+00  2.1500000000   1.018801e-01
## 1815      5   -3.3   -52 -2.401515e+00 -0.4337121212  -7.493834e-02
## 1816     -8   -4.5    18  2.095833e+00  1.1500000000  -5.955004e-02
## 1817      3   -1.0    71  2.613095e+00 -0.4077380952   4.329448e-02
## 1818     28    5.3    89  1.258090e+01  0.1743853631   5.752027e-02
## 1819      3    8.2    46 -3.506539e+00 -0.5177033493  -3.357111e-03
## 1820      3    0.9   -52  5.782609e+00 -0.2582345191   2.476231e-01
## 1821      2   -2.9   -81 -1.257576e+00 -0.7683982684   7.833917e-02
## 1822      0    2.5   -22 -1.308864e+00  0.1833688699   5.743873e-03
## 1823     -3    3.8    70 -1.793367e+00 -2.8801020408   3.006477e-02
## 1824     11   -4.0    30 -1.921569e+00  0.8222222222  -1.215606e-01
## 1825     -8    5.8    23 -7.166667e-01 -2.4000000000   1.427800e-01
## 1826      7    1.5    86 -2.682479e+00  0.0452991453  -5.220686e-02
## 1827    -10    4.7   -34 -1.625311e+00 -0.3793532338  -1.675312e-02
## 1828    -20   -3.2    98 -7.348485e+00  0.9621212121   5.823380e-02
## 1829    -15    2.3    17 -2.176471e+00 -0.1818885449  -1.577311e-02
## 1830      0    0.2   -63  2.236364e+00 -0.8090909091  -1.038916e-01
## 1831     -3   11.2   -78 -1.701961e+00 -1.2666666667  -5.015212e-04
## 1832     -5   -0.1    26  3.304047e+00  0.4531304047   2.620649e-02
## 1833      5    3.5     1 -1.821429e+00  1.0000000000  -4.986416e-02
## 1834    -23   -1.8   -92 -3.583333e+00  1.9930555556  -1.219170e-01
## 1835    -10    2.0    16 -5.707071e-01 -1.0202020202   5.507857e-02
## 1836     15    4.0    44 -1.919603e+00 -0.5424570912  -3.288400e-04
## 1837     18    0.1   -44  1.252444e+01 -1.1070381232   8.655793e-02
## 1838     -8   -1.4    44  2.519894e-02  1.2396109637  -1.642210e-02
## 1839      7    6.6   -73 -1.890426e+00 -1.3618492901   1.088552e-01
## 1840      5    1.1    48  1.108108e+00  0.3813813814   8.270634e-02
## 1841     -2    2.1   -24  3.060606e+00 -0.4047619048   2.371130e-02
## 1842      7   -4.4    59  1.466403e+00  1.2332015810   7.937666e-02
## 1843     -5    0.3   -17 -8.611111e-01 -1.0585585586  -3.202021e-02
## 1844     -5    2.2     7 -2.042941e-01  0.3724788549  -6.368094e-02
## 1845     -5   -4.7   -17 -9.053030e-01 -0.3446969697   2.456348e-02
## 1846     -8   -1.9     1 -6.313158e+00 -0.0530701754  -7.948899e-02
## 1847      0   -4.1    27  1.345641e+00 -1.5610256410  -4.248930e-02
## 1848    -13    2.1    76 -7.220000e+00  1.6833333333  -2.818951e-02
## 1849      2    7.0    24  4.746667e+00 -0.7709090909   5.396586e-03
## 1850      8    0.3   -31  6.204453e+00  0.5000000000   1.007476e-01
## 1851     -5    4.7   -51  4.363986e+00 -1.1486194478   1.182885e-01
## 1852     -5   -1.7    34  1.591121e+00 -0.2606516291  -4.960626e-02
## 1853     -8    2.7   -35  4.277778e+00 -2.2037037037   2.497161e-01
## 1854      3    2.7    19 -2.413793e+00 -1.0517241379  -5.815950e-02
## 1855     -5   -2.2    41 -4.060299e+00  2.3370149254  -1.689908e-01
## 1856     -2    0.3    96 -8.293532e+00  0.3109452736  -1.301516e-01
## 1857     -3   -5.8   -45  6.665385e+00  0.8371794872   5.782953e-02
## 1858     -7  -10.0   -78 -2.100386e+00  0.8481338481  -1.569292e-02
## 1859     13   -7.0    23  5.430672e-01 -1.0619747899  -4.585042e-05
## 1860    -23    5.2    32 -6.408547e+00 -1.2162393162   8.092957e-02
## 1861      7   -0.4    38  1.037391e+00  0.3686956522  -2.657132e-04
## 1862      0    3.9    73 -7.775904e+00  0.8305220884  -7.092795e-02
## 1863    -10    3.3   -90 -5.685855e+00  0.6677631579  -1.449207e-01
## 1864    -18    4.3    32 -3.818872e+00  0.2361334868   7.273184e-04
## 1865     -7   -3.9   -30 -9.614995e-01 -1.5177304965  -6.413358e-02
## 1866     -2   -4.6   -58  2.078947e+00  0.1842105263  -5.827338e-02
## 1867     -5   -3.8     6  2.381568e-01  1.3983634798  -9.084003e-02
## 1868      5   -6.2  -155  8.560606e-01  0.5075757576   4.518895e-02
## 1869     13   -0.9   -62  8.437377e+00  0.0786885246   7.792705e-02
## 1870      0    5.7    38  6.673321e+00 -0.6696914701  -1.654130e-02
```

```
## 1871    -10    2.0    -24   2.235695e-02  -0.7482000758           5.745006e-02
## 1872      3   -0.5      8   1.121886e+00   1.4269360269           4.205770e-03
## 1873     -8    4.4    -41   1.486795e+00  -0.8937721719           1.289113e-01
## 1874      3    3.7    -11  -2.099566e+00  -0.2275795564           8.403130e-02
## 1875    -18   -2.5    -52  -3.899522e-01  -0.3803827751          -1.731708e-03
## 1876     -2    1.5      5  -1.231704e-01  -0.2165147749          -7.925639e-02
## 1877     -5    2.3    -35   3.507519e+00   0.5557644110          -1.140117e-02
## 1878     -5   -2.3    126  -5.652174e-01  -0.4021739130           1.689127e-01
## 1879    -11    1.5     66  -6.740196e-02   0.4379901961          -9.714937e-03
## 1880     -2   -5.6    -98   2.515547e+00  -2.0419776119           4.207909e-02
## 1881      3    2.0   -103   7.567411e+00  -0.5463192721           3.997098e-02
## 1882     -2   -3.6    -35   3.220779e-01   2.1636363636          -2.411362e-03
## 1883     -5    6.6    -20  -5.760870e+00  -0.9495091164           1.518354e-02
## 1884      2    5.5    -14   4.300466e+00  -1.3734472050           7.187918e-02
## 1885      0   -4.9     26  -2.248563e+00   1.2571839080          -5.132619e-02
## 1886      5   -2.4     23  -7.264706e-01   0.8735294118          -1.572732e-02
## 1887    -10    6.8   -150   1.587302e-01  -0.3492063492          -7.323803e-02
## 1888      8    1.7      4   3.302944e+00  -1.5232668566          -3.738565e-02
## 1889      8   -3.3      7   4.693673e+00   0.2804451113          -5.036482e-02
## 1890    -18    4.2   -114  -2.389952e+00  -0.5629984051          -6.263855e-02
## 1891     -3    5.8     -1   3.624856e+00  -2.4085155351           2.674332e-02
## 1892      6   -1.3     55  -1.500000e-01   1.2700000000          -2.501982e-02
## 1893     -3    3.4     25  -1.192308e+00  -1.1038461538           2.152247e-02
## 1894     30   -8.0    -49   7.867275e+00  -0.2983789260           2.885752e-02
## 1895     -3    5.2     -4  -2.601695e+00   0.4768875193           2.874255e-02
## 1896    -10   10.9     27  -4.586057e+00  -0.3823529412          -7.481796e-02
## 1897     18   -0.8    -28   2.112637e+00  -1.0961538462           2.592253e-02
## 1898      8    2.6     10   1.568182e+00  -0.7075757576           7.990213e-03
## 1899     13   -9.8     23   4.771222e+00  -0.2639751553           1.245809e-01
## 1900      0    2.0    -23   5.387521e+00  -1.5238095238           1.232337e-02
## 1901      5    8.0    -96  -9.987390e-01  -3.3795712484           1.471644e-02
## 1902     -8   -2.9     -1  -1.089744e+00  -1.7756410256           6.913704e-02
## 1903      0    0.0      3  -3.490000e+00   0.5883333333          -6.036263e-02
## 1904     -3   -0.2     41  -4.184181e+00   0.4018832392          -7.680574e-02
## 1905      3   -2.3    -17  -1.035186e+00  -1.5517241379          -5.364535e-03
## 1906      0   -2.5    -21  -1.460205e+00   0.1463414634           1.677526e-03
## 1907      5    3.8     -3  -2.840909e-01  -1.3262987013           8.838276e-02
## 1908      7    5.7     65   7.439703e-01   3.5658627087          -5.074920e-02
## 1909     15   -7.3     -7   1.836700e+00  -1.0404040404           2.929173e-02
## 1910      8   -4.3      4   3.624929e-01   1.5225843339          -4.421263e-02
## 1911      0   -6.0     12  -1.098039e+00   2.1880252101          -6.892869e-02
## 1912     -6    3.6     83  -1.096061e+01  -0.7121212121          -1.099068e-01
## 1913      5    5.2   -103   1.148305e+00   0.0709745763          -2.795877e-02
## 1914     11   -0.7     35   5.055944e+00   1.4440559441          -4.371809e-02
## 1915      7    6.5     33   2.179348e+00  -0.3043478261           1.026328e-01
## 1916    -11    3.3    -75  -5.108959e-01  -1.3414043584           2.389587e-02
## 1917     -3    0.3     62  -3.636752e+00  -0.9658119658          -1.192798e-02
## 1918      3   -4.8    -35   4.498184e+00   0.8565375303           7.992853e-02
## 1919     10   -7.3    -77   4.908313e+00  -1.3376102646           7.469940e-02
## 1920     10   -0.6     25   2.391304e-02  -0.3717391304          -7.654329e-03
## 1921      3   -8.7    -52   2.684066e+00  -0.1098901099           1.559735e-02
## 1922    -33   -3.1   -233  -1.653404e+01  -0.4373860182          -1.239152e-02
## 1923      0    4.1     74  -4.540351e+00  -0.2941520468          -7.210906e-02
## 1924    -18   -7.3    -35   2.914683e+00   1.2142857143           5.151651e-02
## 1925     -5    9.5    -74   1.741667e+00  -0.7234848485          -1.654477e-01
## 1926    -13   -6.6     65   1.206140e+00   0.3172514620          -6.011842e-02
## 1927    -18    3.3     21  -4.088734e+00  -1.5463609172          -2.143143e-02
## 1928     10   -5.3     74  -1.033333e+00   0.0000000000           8.051395e-04
```

51

```
## 1929     7    2.2 -138  4.623950e+00 -2.0021008403     3.859630e-02
## 1930    -3    2.6  150 -7.795538e+00  1.1198801199    -1.642080e-01
## 1931    31   -4.4  -42  1.556053e+01  0.2106135987     1.452697e-01
## 1932     5   -0.4  -45  1.305936e+00  0.5065807145     1.120235e-01
## 1933    -2    0.5  -72 -5.695652e-01 -1.1836956522     1.604891e-02
## 1934     0   -6.7  169 -3.519481e+00  0.3311688312    -9.755481e-03
## 1935     2    7.6  -17  4.646792e+00  1.5620460048     5.409594e-02
## 1936    10   -5.0   -9  4.288943e+00  0.3046811945     4.905015e-02
## 1937    -3   -0.1   36 -1.625000e-01 -0.7694444444    -9.492759e-02
## 1938     6   -3.4 -120  3.084878e+00 -2.8439024390     7.377524e-02
## 1939   -10    6.6   31  7.361021e-01 -0.2567596799     5.178142e-03
## 1940   -18    7.6   53 -2.823323e+00 -0.6046046046    -7.568626e-02
## 1941    -5    3.8   28 -2.896262e+00  0.1845919146    -9.900037e-02
## 1942    -8    9.1  -22 -7.557065e+00 -0.7934782609    -7.104544e-02
## 1943     5    8.9 -127 -2.505707e+00  0.2440737489    -8.064390e-02
## 1944    -5   -4.6   33  5.901776e+00  0.8177025527     3.373755e-02
## 1945     0   -1.9   94 -2.763089e+00  1.7681090127    -4.755103e-02
## 1946    11   -1.1  104 -1.310782e-01  1.9408033827    -8.474138e-02
## 1947    -5   -4.6   32 -2.723684e+00 -0.0394736842     8.013042e-03
## 1948     8   -4.7  -14  4.069156e+00 -0.5545454545    -3.002518e-03
## 1949   -25   -5.9 -208 -1.370755e+01  0.2405660377    -1.123063e-01
## 1950   -15    0.8   31 -3.317753e+00 -0.7392044575    -6.844505e-02
## 1951    18    0.1   67  4.625000e-01 -0.1831250000     9.350984e-02
## 1952    10   -3.9   15  5.612648e+00 -0.9488048184     4.883980e-02
## 1953     3   -7.2  115 -8.928962e-01  2.2885245902     3.308830e-02
## 1954    18   -2.7   25  4.536953e+00  0.7982654600    -1.863464e-02
## 1955     2   -5.0   11 -2.962963e-01  0.1883550217     5.280166e-02
## 1956     3   -5.8   -9 -1.261808e-01 -0.4325236167    -2.640744e-02
## 1957    -2    1.2  -31 -4.710494e+00  0.2870370370     3.909596e-02
## 1958    -8   -2.3   22 -6.643718e-01  0.6184165232    -2.823850e-02
## 1959    15   -3.5    6  8.019048e-01  0.1466666667    -1.955412e-02
## 1960   -13   -1.3  115 -1.043056e+01  0.3472222222    -8.464590e-02
## 1961    -5   -2.0  -30  6.230435e+00 -0.5386473430     1.069234e-01
## 1962    -5    1.3   83  3.448276e-02  0.1034482759    -6.934869e-02
## 1963   -33   -1.8 -213 -1.545337e+01  0.3764750666    -8.095067e-02
## 1964   -20    4.9  -55 -2.425214e+00 -0.0555555556    -9.885574e-02
## 1965   -18    5.4    4 -7.084332e+00 -1.1953917051    -1.306917e-01
## 1966    -3   -3.8   13 -6.986667e+00  0.9790717300    -4.284471e-02
## 1967     5    1.3   15  4.411392e+00 -1.0889163322    -2.307411e-02
## 1968    13   -0.5   -7  1.019785e+00 -0.1421864520    -9.076030e-02
## 1969    -2  -10.7  150 -7.171776e-01  1.8895315211    -3.892696e-02
## 1970   -23   -7.3 -238 -1.546830e+01 -0.6722488038    -3.899955e-02
## 1971    -3    1.0   18  1.581642e+00 -1.0837032340    -9.547361e-03
## 1972     2    3.6  -12  1.318237e+00 -0.9975845411    -1.871728e-02
## 1973   -13    2.3  -89 -5.628797e+00 -0.8859758635    -5.715928e-02
## 1974     3   -5.8    1 -3.560676e+00  2.2331029186    -3.157935e-02
## 1975    -3    1.0   -2 -6.673203e-01 -2.0352941176    -1.425648e-02
## 1976    10    2.9  -13  4.876667e+00  0.0000000000     5.775346e-02
## 1977    13    8.7  -34  4.071930e+00 -1.4842105263     8.500715e-02
## 1978     0    3.5  -55  1.156845e+00  0.0296854231     3.553363e-02
## 1979     8   -2.2    6  4.011385e+00 -0.4971537002    -5.271110e-03
## 1980   -18   -4.6 -114 -1.521188e+01 -0.6059379217    -4.968035e-02
## 1981     0  -10.5  -34  1.827839e+00 -1.0476190476     4.062536e-02
## 1982    -7   -8.5  -15 -1.914132e+00  1.9208407871    -3.899822e-02
## 1983    20   -6.1   -4  1.834586e+00  2.0436090226    -2.148978e-01
## 1984    -3    4.7  -31 -1.022326e+00  0.0027906977     6.611018e-02
## 1985    -5    3.1   10 -3.160606e+00 -0.8329966330    -2.800974e-03
## 1986    10   -2.8   19  1.142857e-01  1.0547619048    -2.837362e-02
```

```
## 1987     3 -16.1   43  4.038889e+00  0.6944444444     9.878589e-02
## 1988    13   5.5   11  9.131300e-01  0.8003978780     8.488749e-02
## 1989    10   1.9  -10  6.916364e+00  2.6181818182     8.761990e-02
## 1990     8   3.6  -26 -1.041935e+00 -0.7021505376     2.652747e-04
## 1991    11  -7.0   46 -2.856822e+00  1.7721139430    -1.414474e-02
## 1992   -12   4.8    3  4.024510e+00  0.1617647059     9.767908e-03
## 1993     0   3.6   20  1.347234e+00  0.6208510638    -3.757281e-02
## 1994   -10  -2.8  116 -7.080357e+00  2.4107142857     2.228748e-02
## 1995   -23   7.8   28 -7.071429e+00 -0.3214285714    -1.454836e-01
## 1996     2  -2.6  -20 -4.309006e+00 -0.5652173913    -4.986274e-02
## 1997     3  -4.3  -47 -9.458333e-01 -1.5958333333    -3.793229e-02
## 1998   -25   4.9    2 -7.075431e+00 -0.5007183908     7.231830e-02
## 1999    13  -6.7  111  4.066667e+00  0.2800000000     1.551947e-01
## 2000    10  -1.1   43  4.954545e+00 -1.1420454545    -6.833411e-03
## 2001     2   6.4   -9 -1.147541e-01  0.6528866714    -2.218036e-03
## 2002    12  -1.6   83  2.293182e+00 -0.5613636364     1.233645e-02
## 2003    -5  -2.9   74 -3.117537e+00  3.1380597015     1.049270e-02
## 2004    -7  -3.5   61 -6.868132e-01  1.9175824176    -8.202508e-02
## 2005     2   2.1  -13 -9.255504e+00 -1.2929742389    -7.453042e-02
## 2006    10   4.7   25 -4.390819e+00 -0.5272952854    -5.217991e-02
## 2007     0   0.1  -61  5.897619e+00 -0.9452380952     8.995554e-02
## 2008     5  -0.4  -72  5.877154e+00  0.1902621723     3.397443e-02
## 2009    15  -2.9   17  2.289272e-01 -0.9492337165     4.033027e-02
## 2010     7  -5.6  -41  6.465574e+00  1.1759562842     3.737190e-02
## 2011    13  -7.7  -87  4.575630e+00 -1.8596638655     9.925211e-02
## 2012     0  -2.7  -65  3.164894e+00 -1.3457446809     1.073612e-01
## 2013    -8   1.7   -1 -3.456011e+00  0.1204918033     1.538097e-02
## 2014   -15   4.4   65 -6.049226e+00 -0.5070323488     1.329000e-02
## 2015     3   1.1  -29 -2.179144e-01 -0.5106951872     2.644859e-02
## 2016     2  -2.9   56  1.556098e+00  0.3427937916     1.757503e-02
## 2017   -18   4.3   24 -2.049180e-01 -0.5131578947    -5.260707e-02
## 2018     3  -8.7  -60  2.614114e+00 -0.0860860861     3.514223e-03
## 2019    -8  -3.3   59 -8.245755e+00  0.4943396226    -1.701889e-01
## 2020    -5  -0.5  -86  5.497976e-01  0.6145748988     1.041908e-01
## 2021   -16   5.8   39 -1.381032e+01 -1.2103225806    -1.294333e-01
## 2022    -5  -0.2   20 -2.491525e+00 -1.2203389831    -7.846833e-02
## 2023    -7   1.0  -42  2.778451e+00 -0.1685985248     1.285116e-01
## 2024     3   0.0  -66  3.558654e+00 -1.4512820513     4.689146e-02
## 2025    -2   4.5  136 -2.163484e+00  1.6638655462    -7.105120e-02
## 2026   -20   5.0  -19 -2.068021e+00  0.0656589513    -4.506198e-02
## 2027   -10  -0.3   53 -1.323088e+00  0.2979760120    -7.833556e-02
## 2028    21  -1.7  -60  1.228542e+01 -0.6613427980     2.253540e-02
## 2029    15  -2.9   14  6.272209e+00 -0.5213085234    -1.251535e-02
## 2030    -8  -2.2   60 -4.769231e+00 -1.5384615385    -1.511142e-01
## 2031    -3  -1.4   97 -2.013971e+00 -0.3647058824    -1.056018e-02
## 2032   -15  -0.2   44 -7.268779e+00 -2.0211267606    -6.543583e-02
## 2033     3  -8.0 -143  1.864995e+00 -0.0920645826     5.389486e-02
## 2034     0   0.7   52  2.078317e+00 -2.0071819425    -9.457795e-02
## 2035    -3  -4.7  -40 -7.503156e+00 -1.8162692847     3.791131e-03
## 2036    -8  -3.6    7 -2.140089e+00  0.1169895678    -3.991356e-02
## 2037    -7  -1.9  -27  3.960829e+00  0.5056497175    -4.991112e-02
## 2038   -13   2.6   65 -4.901163e+00  0.3139534884    -5.829142e-02
## 2039     0   2.7  -32  4.708542e+00 -0.9442622951     1.124670e-01
## 2040    15  -1.4  -75  2.946338e+00  0.3094398747     2.125327e-03
## 2041     5   0.2   22  4.562212e-01  0.7373271889    -2.867204e-02
## 2042    -3  -1.0   40 -8.569024e-01 -0.3986531987    -1.912753e-02
## 2043     5  -2.9   67  5.416667e-01 -0.0520833333    -5.541618e-02
## 2044     0  -5.9   30 -5.079309e+00 -0.4566677327    -7.704957e-02
```

53

```
## 2045     3   4.5    -3  4.199301e+00 -0.3543123543      -2.581561e-02
## 2046    -5   4.1   -47  9.365591e-01  0.6053763441       2.324103e-02
## 2047   -23   0.3    29 -9.700741e+00 -0.1881481481      -6.256727e-02
## 2048    -5   1.7    -4 -2.597222e+00 -0.9043209877      -4.201140e-02
## 2049    -3   7.4   171  8.103448e-01 -0.6444991790      -1.322285e-01
## 2050     5   2.4   -22 -5.147649e+00 -1.2253249880       2.469313e-02
## 2051     6  -1.9   -32  3.577011e+00  0.5683908046      -2.770085e-02
## 2052   -17   0.5    86 -6.327851e+00  0.8569078947      -8.726663e-02
## 2053    -3   0.5    17  1.494048e+00 -0.4166666667       7.854493e-02
## 2054   -15   4.0   -49 -6.991218e-01 -0.7164948454       6.558721e-02
## 2055   -10   6.8   -36  1.114588e+00 -0.2922484352      -2.408800e-02
## 2056    -3  -1.1     7 -6.492405e+00  0.5156034245      -1.193790e-01
## 2057    -5  -1.3   -15 -4.392461e+00  1.0055432373       2.969475e-02
## 2058    11   0.8     6  3.978240e+00  0.7202611219      -2.925251e-02
## 2059     2   3.4   -24  2.203473e+00 -1.1242539338       1.375392e-01
## 2060    13   0.3     9  6.951981e+00  0.4597839136      -1.401111e-02
## 2061   -15  -1.0   -38 -6.459378e+00  0.6114952463       1.158148e-01
## 2062     0   4.9     2  4.028786e+00 -0.1806659506       4.105714e-02
## 2063     0  -5.4   -13 -5.720290e+00  1.3236714976       2.955944e-02
## 2064     3  -0.9     1  6.751374e-01  1.9644001832       2.267091e-02
## 2065     2  -0.3     3  6.404337e+00  0.5497448980       6.840696e-02
## 2066   -18   3.9    -9 -2.272727e-02 -1.0227272727      -3.723561e-02
## 2067   -12   5.2    -5 -2.324444e+00  0.2355555556      -1.177565e-01
## 2068   -10  -5.2    -9 -5.772727e+00 -1.9696969697       2.888154e-02
## 2069     0   4.9    10  3.410714e+00 -0.8571428571       1.229811e-01
## 2070     2   3.1    91  2.034200e+00  0.2941176471      -2.918348e-02
## 2071    13  -7.3   -61  4.559806e+00 -0.2416514876       2.609244e-02
## 2072     5  -5.0   -20  2.783699e+00  0.0238244514       7.641846e-03
## 2073     8  -6.0    38  6.285714e+00  2.1547619048      -1.732139e-02
## 2074    30   2.3   109  1.118043e+01 -0.4601449275       1.081437e-01
## 2075     5   6.3     4  8.500000e-01  2.1500000000      -6.977182e-02
## 2076   -10   5.9   -11 -7.231969e-01 -0.8615984405       1.160965e-03
## 2077    -5   0.6   -31 -1.036053e+00  0.5237191651       6.388457e-02
## 2078    -5  -7.0    36  1.108844e+00  1.2925170068      -2.308808e-03
## 2079   -13  -4.1     2 -5.341447e-01  1.4898580122       3.019033e-02
## 2080    21   0.5   -83  1.166667e+00  1.3250000000      -5.159181e-02
## 2081     8  -0.8    51 -3.576954e+00  0.3110394843      -7.457005e-02
## 2082     0   6.1  -102  7.500000e+00  0.0476190476      -5.549580e-02
## 2083   -10  -0.2   -38 -4.841270e-01  0.6031746032       1.433632e-01
## 2084    -7  -6.5   -36 -2.271008e+00  0.2787114846      -5.903411e-02
## 2085    -2  -0.8    44  1.241923e+00  0.2647754137      -6.011142e-02
## 2086    -8  -1.7    44 -9.036658e-01 -1.9467178176       4.669776e-02
## 2087    -8   1.0    18 -6.659622e+00 -0.9671857620      -1.286658e-01
## 2088    -5  -6.0   -97 -3.051948e-01 -0.8928571429      -2.708449e-03
## 2089    -5   3.5    56  1.875000e-01  3.0468750000      -7.077417e-02
## 2090   -28  -2.5   -85 -1.624477e+01 -0.8379790941      -1.376093e-01
## 2091    -5  -0.2    60 -3.284483e+00 -0.6077586207       1.891698e-02
## 2092    18   0.0   -65  1.159944e+01  0.4105555556       1.576095e-02
## 2093    -5   1.0    23 -3.310734e-01  1.2559322034       3.318351e-02
## 2094    -2   0.3    73 -7.812055e+00  0.0279452055      -1.043888e-01
## 2095     3  -6.5    28 -8.653563e-01  2.3508599509      -4.920779e-02
## 2096   -10  -8.1    50 -6.935891e+00  1.0645944633      -4.832116e-02
## 2097    -3   2.2   -15 -4.161905e+00 -0.5833333333      -3.501973e-02
## 2098     8   2.6   -39 -3.563910e-01  1.5551378446      -4.388718e-04
## 2099     5   3.5    24 -2.862321e+00 -1.3992177314       3.761486e-02
## 2100    -2  -6.1  -145 -1.345075e+00  0.2103718200      -3.411602e-02
## 2101     8  -2.1    16 -1.303644e+00 -0.3036437247       3.337871e-02
## 2102     5  -5.2    45 -2.477419e+00 -0.0137634409      -1.405682e-01
```

54

```
## 2103    -2   -4.0   -5 -1.944828e+00  1.2126436782         5.860282e-02
## 2104    10    0.0   11  3.216095e+00  0.5509190263        -5.714459e-03
## 2105    12    8.3   81  1.515159e+01 -1.2764857881         1.104833e-01
## 2106    -8   -4.6   22 -1.283116e+00  1.4892723881        -1.269361e-01
## 2107    18    2.5   32  6.647465e-01  0.2488479263        -2.696133e-03
## 2108     0   -0.4   20  2.616774e+00  1.4387096774        -1.052951e-02
## 2109    -3    0.3  -37 -4.437718e-01  0.9084571638         9.529299e-02
## 2110    -3    1.1   19 -7.903226e+00 -0.3064516129        -7.146173e-02
## 2111     5    7.9  -14  3.144528e+00 -1.8387635756        -4.693445e-02
## 2112   -22   -1.4   36 -3.322499e-01  0.2257132539         2.874323e-02
## 2113    -2   -6.5  -44  2.760494e+00  0.1580246914         2.108684e-02
## 2114    10    0.4   28  2.614035e+00 -0.8245614035        -8.441804e-03
## 2115     5   -3.0    7  1.713889e+00  0.3444444444         2.970387e-02
## 2116     7   -1.2   21 -2.974239e-01 -0.8992974239         4.310369e-02
## 2117    15   -0.8  -44  4.370479e+00  0.3934506354         2.466782e-02
## 2118    -3    2.3   12  1.062421e+00  1.5879571248         2.401744e-03
## 2119    -3    2.7  -28 -4.333333e+00 -1.2634920635        -5.572824e-02
## 2120    25    1.0  -20  7.750674e+00 -2.0387466307         5.304177e-03
## 2121    10    0.2    9  2.998102e-01  0.6280834915        -1.479241e-02
## 2122     6  -10.6    9  8.441026e+00  0.0602564103         4.135971e-02
## 2123    -8   -2.7   -6 -4.033482e+00 -1.3182043651        -6.928316e-03
## 2124    12   -5.8   22  3.687317e+00  0.5447106955         1.890941e-02
## 2125   -23   -2.0   27 -4.731499e+00  0.1299810247        -2.600111e-02
## 2126    -7    0.7  -38  4.068931e+00 -0.3078921079         1.692955e-02
## 2127   -15    7.0   54 -7.300866e+00  0.4119769120        -1.680737e-01
## 2128     5    6.7  -36 -2.727181e+00 -2.1531440162         8.471019e-02
## 2129    -7    3.7   -7  2.670045e+00 -0.4313063063         6.311636e-02
## 2130     0    4.9   58  2.196040e-01  0.5766650303        -6.628325e-02
## 2131     3    3.0    9 -1.537500e+00  1.0763888889        -1.067397e-01
## 2132    -5   -6.1  -23  8.620690e-02  0.7714833060         8.355386e-02
## 2133   -28    4.7   71 -6.146629e+00  0.0665730337        -1.401606e-02
## 2134    -5    8.4   66 -3.561491e+00  0.3037267081        -4.631962e-02
## 2135    -8    4.1   -1 -1.640196e+00  0.1281669151         3.213627e-02
## 2136    12    1.5  -47  1.923150e+00 -0.0815939279         9.004601e-02
## 2137     8   -1.0  -51  3.861447e+00  0.6291185582        -1.944323e-02
## 2138    -8    1.5   21 -1.706092e+00 -2.2466376582        -6.211388e-02
## 2139   -15   -1.3   37 -5.724311e+00  2.3759398496        -1.017154e-01
## 2140     6   -2.4    4  7.788360e+00 -0.4074074074         9.684463e-02
## 2141   -13   -0.5  -37 -8.027778e+00 -1.5356691919         6.152197e-03
## 2142     7   -5.8   54  1.237751e+00  0.6208835341         3.245510e-02
## 2143     8   -2.1  -81  6.923913e+00  0.3623188406         3.211756e-02
## 2144   -15    0.5   58 -2.176923e+00  0.7871794872        -1.816800e-01
## 2145     7    2.2  -29  9.240404e-01 -1.1894949495         7.173043e-02
## 2146     0    0.0   17  2.200932e+00  0.9884101789        -1.929351e-03
## 2147     3   -6.5  -33 -3.113559e+00  0.3461393597         5.212186e-02
## 2148     7   -2.3  -20  2.916856e+00 -0.0311222172         5.855740e-02
## 2149    15   -1.4  -72  6.917647e+00  1.9785714286         3.092653e-02
## 2150   -13    3.8   13 -4.295023e+00 -0.3257918552        -7.279441e-02
## 2151   -21    8.8  -28 -1.326000e+01 -1.1642857143        -3.587672e-02
## 2152     0   -4.2    3  1.731951e+00 -0.1908602151         5.497579e-03
## 2153    13   -7.1   19 -3.429114e-01  1.0910126582        -1.352000e-04
## 2154    -8   -7.2  -39 -7.060101e+00 -0.2873737374         7.168803e-02
## 2155   -12    2.1   78 -5.958333e+00 -0.6666666667        -4.956504e-02
## 2156   -18    3.9  -10 -5.257195e+00 -0.7311766060         1.751256e-02
## 2157    -2    0.2    6 -1.468957e+00  1.0237623762        -1.022261e-01
## 2158    -5    0.9   -3 -4.475890e+00 -0.8072602740         2.647527e-02
## 2159     8    0.8    3  2.930005e+00  0.5718194254        -4.691410e-02
## 2160   -10    4.2    5 -4.391041e-01  0.2506007882        -3.770025e-03
```

```
## 2161    -3   -4.1    17   2.757649e+00   2.0136876006     1.816741e-02
## 2162    -5   10.0   -10   2.262443e-01   1.8687782805    -1.644513e-01
## 2163     0   -0.1   -22   2.770879e+00   1.3009279717    -2.485035e-02
## 2164    -5   -6.8   -23   3.929878e+00   0.4932249322     7.718622e-02
## 2165     8   -0.8     8   1.363636e+00   1.0177865613    -1.983238e-01
## 2166     5    1.4   -41   5.871154e+00  -0.2076923077    -4.420975e-03
## 2167    11  -12.0   -40   1.132722e+01   0.2289068232     1.119544e-01
## 2168     0    3.2   -29  -2.027789e+00   1.9729941292    -1.633174e-02
## 2169     5    6.2   -23   7.067692e+00   1.7446153846     2.846590e-02
## 2170     5    1.7    28   2.252016e+00  -0.0252016129    -8.353058e-02
## 2171    -6    1.3   -50  -5.130411e+00  -0.7656926407     5.675348e-03
## 2172    13   -4.4    53   1.012821e+00   1.2307692308    -5.073026e-02
## 2173    23   -0.3   -27   5.795982e+00   0.8057124922     9.112862e-03
## 2174    13    6.0    22   1.650794e+00  -1.2766439909     3.723234e-02
## 2175     2    1.5   -15   9.149306e-01  -0.5347222222     2.819394e-02
## 2176    -2    7.4    19  -4.852174e+00  -0.2239130435    -1.584429e-02
## 2177     3   -7.1    33   2.057143e+00   1.5507936508     4.330329e-02
## 2178     2   -0.4   -30   4.093826e+00   0.7509591908     6.699623e-02
## 2179     0   -0.8   -59  -1.785205e+00  -1.4648841355     4.392180e-02
## 2180     0   -0.1    53  -1.603175e+00   0.8174603175     6.787902e-02
## 2181    -3    0.7   -70   2.399162e+00  -1.6705081194     2.303601e-01
## 2182     3    0.6   -50   1.795743e+00   0.7536231884    -3.900772e-02
## 2183    10    0.4   -51   1.632314e+00  -0.2679521277     7.980098e-02
## 2184   -11    9.7    97  -1.273984e+01   0.9869918699    -1.010904e-01
## 2185     0    1.7    16   6.911548e+00  -0.2850122850     9.444244e-02
## 2186     0   -5.7   -47   8.041958e-01   0.7668997669     2.066782e-02
## 2187     7   -4.9    44  -2.261948e+00   0.0598911071    -1.610553e-02
## 2188    21   -8.4    94   5.811277e+00   1.6398158803    -1.147473e-02
## 2189    -5    4.8    31  -4.805966e+00  -1.2190340909     2.627469e-02
## 2190    -8    0.8   -66   1.968623e-01  -0.9433198381     7.445459e-02
## 2191     3    0.4   -40   6.460576e+00  -0.3247809762     1.162729e-01
## 2192    10   -2.5   105   2.295082e-01   0.2673392182    -7.346251e-02
## 2193    -7    7.5   -28  -1.001603e+00  -1.0913461538    -3.208643e-02
## 2194    -3    1.5   -53  -8.275182e-01   0.0297330097     4.361846e-02
## 2195     8   -0.2    -8   3.252381e+00   1.1976190476    -6.584222e-02
## 2196   -13    5.9    28  -7.241447e+00   0.4946236559    -7.647151e-02
## 2197    10    8.2    -6   8.532485e+00   0.2405618964     2.551403e-02
## 2198     8   -0.4   -19   2.322727e+00  -0.2170454545    -7.017694e-03
## 2199    23    0.7    60   2.553114e+00  -0.1919413919    -7.330671e-02
## 2200     5   -4.2   -28   4.164007e+00  -0.3974533107    -1.469346e-02
## 2201     8   -0.2     8   5.278440e+00   2.1503250271    -6.497425e-02
## 2202     5    3.3   -14   2.838235e+00   0.0147058824     2.987520e-02
## 2203     8    0.9     2   2.929934e+00   0.5949756201    -5.588317e-02
## 2204     0   -5.5   -66   5.634167e+00   1.1787500000     7.281249e-02
## 2205     2   -1.4   -55  -4.685714e+00  -1.6380952381     4.632479e-02
## 2206    -8    3.4    -5  -4.760285e+00  -0.3744098661     5.733455e-02
## 2207   -10    4.2     5  -4.164920e-01   0.2486023760     3.183054e-03
## 2208    -2   -0.7   -32   3.084795e-01   0.4400584795    -1.393447e-02
## 2209     8    2.0   -55   4.903475e-01  -0.7235521236     2.546321e-02
## 2210     5    0.6   -17   2.562039e-01   0.6060809300     8.387959e-03
## 2211    -2   -3.5   -58   9.610234e-01  -0.6099952176     9.658875e-03
## 2212     2    5.3    41  -1.075099e+00   1.2727272727     1.115866e-02
## 2213     8   -9.0   -13   1.676282e+00   1.1326923077    -6.020198e-03
## 2214    -8    1.3   -12  -4.735294e+00  -1.2058823529     5.087511e-02
## 2215     2    5.5   -29   2.710084e+00   1.5196078431    -9.534163e-02
## 2216    15   -3.0  -101   4.145833e+00   1.0861111111     1.870930e-01
## 2217     0   -8.7   -22  -4.433333e-01   0.2725000000    -1.929861e-02
## 2218   -13   -0.3  -109  -5.840188e+00  -1.6216216216     1.285947e-01
```

```
## 2219    -2    1.8   -63  -3.276820e+00  -0.1719348659    -2.799441e-03
## 2220     5   -4.5    -4   3.861576e+00   1.1060739437    -1.893477e-02
## 2221    -5    5.9   -44   2.589357e+00  -0.5963855422     1.926729e-02
## 2222     2    1.6   -44  -4.809451e-01  -2.0304878049     8.580432e-02
## 2223   -10    4.8   -54  -3.281250e-01   0.7599431818    -4.146065e-02
## 2224   -10    3.4    92  -1.569563e+00  -0.5130579297    -6.177674e-02
## 2225    11   -6.1    56   7.761905e+00   1.2227891156     5.811392e-03
## 2226    -3   -2.7    33   4.975989e+00   1.6177024482     3.006273e-03
## 2227     2    7.6   -34  -1.153846e+00  -1.5384615385     4.967879e-02
## 2228    20   -7.3   -19   3.735084e+00  -0.1212007505     6.882132e-02
## 2229    -7   -4.9   -25   2.153846e+00  -0.2471794872     4.616414e-02
## 2230     5    0.5   -41  -3.565152e+00  -0.9121212121     3.488927e-02
## 2231    -7   -2.6   -27  -8.493761e-01  -0.1693404635     4.021793e-02
## 2232   -12    2.3     5  -4.179104e-01   0.7611940299    -1.955651e-02
## 2233    -5   -1.3     6  -3.008523e+00  -0.5823863636    -6.459925e-02
## 2234    -8    0.8    -7  -1.416667e+00  -0.9166666667     1.595638e-01
## 2235    -5   -2.2   -87  -1.528571e+00  -0.3071428571    -1.252696e-01
## 2236    31   -4.4   -61   1.538468e+01   0.3657657658     1.148130e-01
## 2237    -3    2.8     6  -5.054945e-01   0.0032967033    -2.055725e-02
## 2238     3   -2.3    14   1.062500e-01   1.0416666667    -3.328615e-02
## 2239    15   -2.4   -12   6.115385e-01  -0.8743589744     7.850117e-03
## 2240    -8    5.4    18   7.142857e-01  -0.5714285714    -4.348310e-02
## 2241    -2   -5.5    11  -4.507692e+00   1.0087912088    -1.500188e-02
## 2242     3    2.5    -1   8.039911e+00   0.9513935340     5.723513e-02
## 2243   -11    7.4    70  -9.983173e+00   0.3461538462    -4.382136e-02
## 2244    -2    2.5    12  -2.489286e+00  -0.1357142857    -3.890839e-02
## 2245    -5    1.0    75  -5.206597e+00   0.3024305556    -2.853991e-02
## 2246   -10   -2.4    47  -7.922078e-01  -1.2568181818     5.504375e-02
## 2247   -20   -2.7    39  -3.805195e+00   0.6645021645    -1.801378e-02
## 2248     5    2.5   -48   1.962753e+00  -0.5757085020     7.143998e-02
## 2249   -13    6.2     5  -1.392258e+00  -2.1354838710     9.708907e-02
## 2250    13   -4.9   -89   5.940133e+00  -0.2653362897     5.281724e-02
## 2251    -8   -1.7    45  -7.388889e-01  -1.9466666667     5.502604e-02
## 2252    -8   -0.7    43  -6.103740e+00  -0.5438012295    -1.079870e-01
## 2253    10   -3.2    63  -4.017738e+00   0.0066518847    -8.047957e-02
## 2254     0   -4.1   -98   3.200000e+00   0.0533333333     3.875113e-02
## 2255    -5    1.2   479  -2.956522e+00   0.8298136646     4.201217e-02
## 2256    18    0.4    65   1.690960e+00   0.3542413381     2.140229e-02
## 2257     0   -1.9   -50   2.555556e+00  -0.3015873016    -1.730152e-03
## 2258     2   -6.0    28   3.539130e+00   0.7391304348     3.534765e-02
## 2259    -5    4.8    29  -4.713538e+00  -1.2126211050     2.556959e-02
## 2260    -3   -0.2    36  -4.650497e+00  -0.0432495617    -5.651014e-02
## 2261    10    1.4   -47   3.792105e+00   2.7368421053     5.691197e-02
## 2262     0    0.2    83  -1.042597e+00   0.7406947891    -2.290184e-01
## 2263     5   -4.1    41  -1.050858e+00  -0.6942401961    -2.307746e-02
## 2264     0    0.7   -35   3.444534e+00   0.4259782170     3.680871e-02
## 2265     8   -2.0   -30   2.228778e+00   0.7410865874     4.427179e-02
## 2266    13   -0.9     9   7.173480e+00   0.6700446582     4.144990e-02
## 2267   -13    6.0    -5  -9.355699e+00  -0.3253676471    -1.146639e-01
## 2268    -7    4.6    28  -3.476190e+00   0.4690476190    -3.734737e-02
## 2269   -15    2.5   -19  -4.271179e+00   1.7550021286     5.599541e-02
## 2270    18   -2.8   -15   3.809524e+00   0.4539682540     1.170200e-01
## 2271    -5    0.1    43  -1.073485e+01  -0.4002525253    -8.661230e-02
## 2272    -8    7.1   -12  -8.477003e+00   1.7449477352    -5.855842e-02
## 2273     0   -5.6   -35  -6.548382e+00   0.1728359079     2.704611e-02
## 2274    10   -4.9    31   2.649264e+00  -2.0170682731     4.211872e-02
## 2275    -2   -1.6   -99   4.654762e+00   0.1071428571    -1.158610e-02
## 2276   -10    7.2    22  -4.787754e+00  -1.3602904770    -7.961440e-02
```

```
## 2277    15  -6.2   19  3.968900e+00 -0.1425398001          6.270675e-02
## 2278    -8   7.4    9 -2.686088e+00 -0.4508196721         -2.052871e-02
## 2279     0  -0.9  -45  3.721362e-01 -0.4646026832          4.808440e-02
## 2280     8  -9.3  -14  3.340841e+00 -0.5345345345          2.440235e-02
## 2281    13  -1.0   22 -7.566414e-01 -0.2504743833          1.025095e-03
## 2282     8  -0.3  -38  1.172222e+00  1.2611111111          3.944235e-02
## 2283     5   0.4   13  2.963108e+00  0.4061224490          5.253593e-02
## 2284    -5  -1.7  -30 -2.262626e+00 -0.0151515152          1.114148e-01
## 2285    -8  -1.0  -39  4.231868e+00  1.2593406593          3.606865e-03
## 2286    12  -4.9   22 -4.050145e-02 -0.0703953713         -5.588571e-02
## 2287     0   3.3   -1 -1.111408e+00 -0.6559714795          3.675617e-02
## 2288   -15  -7.5 -123 -9.896465e+00  1.3762626263         -1.077711e-01
## 2289     3  -2.3  -15  4.269385e+00  0.7693850267         -1.632031e-02
## 2290     8  -1.9  -12  5.520202e+00  0.1976911977          9.445318e-02
## 2291    10   5.8   17  5.436318e+00 -0.6090794451          3.822398e-03
## 2292    -7  -8.8   17  2.718285e+00  1.0893388922         -2.902925e-02
## 2293   -18   5.1  -12 -2.625579e+00  0.3749768304          2.808370e-02
## 2294    18  -3.3   22  7.582222e+00  0.2583333333         -8.077020e-04
## 2295     5   1.9   15 -2.296842e+00  1.2847368421         -1.555076e-01
## 2296   -10   8.6  -10 -7.320028e+00 -0.5679271709         -8.441608e-02
## 2297   -35   5.3   39 -8.548160e+00 -0.4361306325          4.802370e-02
## 2298    -2   0.9   23  4.094997e+00  1.3240241891         -6.601341e-02
## 2299     0   0.1   13  8.703008e-01 -0.0313283208         -1.607075e-02
## 2300    -2   4.2  -53  7.536398e-01 -0.5716475096         -1.021890e-02
## 2301     3  -0.1   36  3.208235e+00  1.8505882353         -4.956217e-02
## 2302    -5  -3.0    6 -1.768116e+00  1.3643892340         -6.448054e-03
## 2303    -5  -3.0   54 -5.844920e+00  0.5998217469         -1.397029e-01
## 2304    -5  -3.3   55 -5.310684e+00 -1.5885660731         -6.097499e-02
## 2305    -6  -0.6   43 -4.061857e+00  0.1995746189         -4.651401e-02
## 2306    -8   2.4   33 -5.616438e+00 -1.3565732979         -1.191149e-02
## 2307     2   4.2   -6 -2.900780e+00 -0.9191750279          6.699704e-02
## 2308     7  -2.4  -16  2.861998e+00 -0.0610155610          5.660158e-02
## 2309     8  -6.2   53  1.894113e+00  1.2251529052         -1.066809e-01
## 2310   -13  -0.7    5 -1.090869e+01 -0.2503987241         -7.197014e-02
## 2311    -5   5.3  -54 -5.297106e+00  1.9917976760         -7.121355e-02
## 2312    15   1.0   33  5.832456e+00 -0.7236842105         -1.165145e-01
## 2313    -5  -5.2   34 -3.366963e+00 -0.0984665052         -4.408947e-02
## 2314     0   1.0   46 -1.403823e+00  0.4182342233         -1.108021e-01
## 2315     5   0.7  -17 -1.034267e+00  0.5254340542          1.637487e-02
## 2316    11  -1.4  -36  4.598465e+00 -0.0984654731          3.500344e-02
## 2317     2   0.6  -32  1.089283e+00 -0.3221940928          5.927937e-02
## 2318   -18   3.7  -32 -3.300407e+00 -0.3336499322          7.922254e-02
## 2319     0   4.0   27 -5.528846e-02  0.1314102564         -1.354673e-01
## 2320     5   6.0   26  5.127315e+00  1.4756944444         -1.104519e-03
## 2321     8  -3.0    2  1.854604e+00  1.7457264957         -1.675038e-02
## 2322    -8  -2.3   29 -6.286290e-01  0.4939516129         -4.380416e-02
## 2323   -13   5.1    4 -1.204978e+00 -1.5861428439         -2.755078e-02
## 2324     0   4.8    2  4.310965e+00 -0.1698558322          4.636020e-02
## 2325     0   0.6  -34 -2.578483e+00  0.7414965986          1.054446e-01
## 2326    -3   1.0   -1 -9.121212e-01 -1.8565656566         -2.468199e-02
## 2327    -5   6.0  126 -3.119241e+00  1.5203252033          9.662628e-03
## 2328    -2  -1.3   19  2.455061e+00  0.1842105263         -2.828523e-03
## 2329     5   1.3  -32 -2.296784e+00  0.0460143688         -1.530542e-02
## 2330     0   6.0  -49  5.427520e+00  0.6681660192          3.692427e-02
## 2331   -10  -9.5 -115 -1.098170e+01  0.1359477124         -2.044692e-02
## 2332    -5  -0.2    9 -3.191176e+00  0.3132694938         -7.895287e-02
## 2333     2   4.8   35  3.509434e-01 -0.0485175202          1.190291e-01
## 2334   -10   5.6   22 -1.866556e+00  0.0373754153         -4.941913e-02
```

```
## 2335     2   6.9     5 -9.292308e-01 -0.7200000000      6.642415e-02
## 2336    -5  -4.4   -29  8.456948e-01  0.5528559250     -5.424304e-03
## 2337    -5  -0.1   -13 -1.547274e+00 -0.0248447205      2.272290e-03
## 2338     5   3.8   -15 -2.494505e-01 -1.1664835165      9.628060e-02
## 2339   -16   5.6     7 -1.524991e+01 -0.4010179010     -6.577396e-02
## 2340    -5  -2.3     7 -7.646159e+00  0.7742992355     -1.268042e-01
## 2341    15  -4.7   -15  4.638495e+00 -0.0193779515      1.095455e-04
## 2342     8   7.4    24 -5.965931e+00 -1.7504758279     -9.835674e-03
## 2343     3  -2.9   -12 -2.148588e+00  1.7850048685     -3.752780e-02
## 2344     8  -7.1     9  8.633704e+00 -1.7360890302      5.968162e-02
## 2345     5   1.4     9 -1.294426e+00 -0.7484153005     -1.088578e-01
## 2346     0  -0.2    97 -4.737374e+00 -0.8559276980     -1.024175e-01
## 2347     5   2.2   -34  3.692016e+00 -2.4582961641      1.613729e-01
## 2348    10  -7.0    -5  9.179160e+00 -1.2923538231      7.520343e-02
## 2349   -10  -3.6   -84 -3.033088e-02 -3.1372549020      1.530340e-03
## 2350     2  -4.4  -147 -2.441916e-01 -2.5391180654      6.598398e-02
## 2351   -10  -2.1     5 -4.294643e+00 -0.6428571429     -3.274212e-02
## 2352     5   2.7    28  7.957958e-01 -0.3614328614     -6.024824e-02
## 2353    15  -5.6   -49  4.642706e+00 -0.2283298097      9.899650e-02
## 2354    -3   3.7   -15 -2.972245e+00 -1.1683073558      3.680580e-02
## 2355     0  -3.0   -90  5.466156e-01 -0.5038314176      1.882543e-02
## 2356    -8   4.4    23 -2.529644e+00  0.0658761528      1.701624e-02
## 2357   -11   1.5    30 -4.514590e+00  0.0620060790     -3.209691e-02
## 2358    -7   2.4   -20  2.040551e+00  0.6178610122     -4.791265e-02
## 2359    -7  -5.3   -23  3.197647e+00  0.3864705882     -1.935767e-02
## 2360     5  -4.6   -29  5.715556e+00  1.4088888889      3.272787e-02
## 2361    -5   6.9    37 -1.618022e+00 -0.5937001595     -3.558890e-02
## 2362     5  -0.7   -12  3.897209e+00 -1.2537209302      6.211816e-02
## 2363    15  -2.2    15  3.576316e+00  1.3368421053      8.894191e-02
## 2364     0   3.5    65 -6.363095e+00  0.4669913420     -1.396017e-01
## 2365     2   5.0   139  4.600000e-01  1.8130769231     -1.253904e-01
## 2366    -3  -4.7   -39 -7.496795e+00 -1.6014194139     -1.660783e-03
## 2367   -10   6.8   -12  2.457931e+00 -0.2386206897     -2.091533e-02
## 2368     0  -4.9    13 -1.995858e+00  1.1789507222     -4.952328e-02
## 2369    11  -4.1   -52  3.608955e+00 -0.0212097408      1.859961e-02
## 2370     0  -4.1   -14  2.021930e+00 -0.2887426901      5.964581e-02
## 2371    -2   5.9    40 -5.461381e+00 -1.3108339029     -1.793102e-02
## 2372    10   1.0    -5  1.831683e+00  0.9702970297      8.624997e-02
## 2373    -5   2.2    12  2.290937e+00 -0.9677583143      1.905703e-02
## 2374    13  -2.3    22  3.810137e+00  0.9299074819      2.271652e-02
## 2375    11   0.8    -9  1.778675e+00 -0.3614232210     -3.212528e-02
## 2376     0   3.6    24 -3.981384e+00 -0.5918510713      3.101353e-02
## 2377    -5  -2.8    -3 -5.205882e+00  0.1862745098      2.460322e-03
## 2378     0   0.1   -15 -2.273684e+00 -1.0000000000     -1.884510e-03
## 2379     2   0.0     2  3.561509e+00 -0.9300725083     -6.961246e-02
## 2380     3  -1.0     1  8.559365e-01  1.7726588629      2.712580e-02
## 2381     2  -0.7   -12  3.879811e-01 -0.4032316630      1.313348e-02
## 2382    -2   0.2    86 -5.625000e-01  0.3750000000     -2.934428e-02
## 2383     5  -1.1    22 -1.681884e+00  0.7695652174     -2.937088e-02
## 2384    -7   1.8   -10  1.344062e+00 -0.3646541383      1.496011e-02
## 2385    -3  -7.1   -51  8.202778e+00 -0.0205555556      5.453507e-02
## 2386    -5  -1.3    31  2.188594e+00 -0.0273092369      2.804747e-02
## 2387    -2  -7.8    37  3.666667e+00  2.5666666667      3.727553e-03
## 2388   -12  -4.2     1  4.519481e+00  0.4350649351      3.293465e-02
## 2389   -10   3.6    -3 -2.569462e+00  0.2240300375     -5.074530e-02
## 2390     0   3.3    -7 -1.216583e+00 -0.7935158119      2.970079e-02
## 2391    -5   0.6    47 -1.861905e+00  1.6523809524     -2.561781e-02
## 2392    -3  -2.3    28 -6.782895e+00  0.0504385965     -5.728160e-02
```

```
## 2393     2    3.5    54 -9.829797e-01  0.6763925729      3.666392e-03
## 2394     5    0.5   -17  9.885228e-01 -0.4350240652      6.142383e-02
## 2395    -8    5.3   -14 -3.978764e+00 -0.7625482625     -1.088861e-01
## 2396     3    5.6   -35  5.471380e+00 -0.8126503127      9.298969e-02
## 2397    -8   -2.9    40 -5.322860e+00 -0.1419240953     -1.365458e-01
## 2398   -12    1.2   -37 -6.044872e+00  1.3384615385     -6.274426e-02
## 2399     7   -3.8    34 -7.683793e-01 -0.1585213033     -2.457526e-02
## 2400    20   -5.7   -15  4.694444e+00 -0.6130952381     -3.333726e-02
## 2401     0   -2.6    26 -3.422917e-01  0.6104166667     -6.647555e-02
## 2402     3   -3.4   -13  1.230769e+00  1.1761133603     -6.691434e-02
## 2403     3    0.2   -31  4.703297e+00  0.1648351648      6.614361e-02
## 2404   -15    1.9   -44 -1.432280e+00 -0.3979395604      7.297356e-02
## 2405    10   -3.6     3  3.866177e+00 -0.0499717674      4.514709e-02
## 2406    -3   -0.6   -42  3.653091e+00 -0.1914105887      9.487259e-02
## 2407     7    8.4   -18 -2.041311e+00  0.3475783476     -3.159442e-02
## 2408    25   -3.2   -22  2.515922e+00 -1.8214941825      6.258632e-02
## 2409    -3   -1.2    25  6.901408e-01  0.7585513078      4.115098e-02
## 2410   -16    5.7     4 -1.511186e+01 -0.4105769231     -4.650618e-02
## 2411     5    4.1    34  4.944886e+00  1.0019860973      9.980983e-02
## 2412   -15   -0.3    35 -7.409091e+00 -1.8246753247     -7.005052e-02
## 2413     0   -2.5   -56  5.061275e+00 -0.4142156863      2.456599e-02
## 2414     2   -1.9    27  2.556455e+00  1.8121627231      3.358176e-02
## 2415     0    2.1    38 -1.794721e-01  0.1794721408      2.254155e-02
## 2416   -13   -2.8    47 -2.710577e+00  0.5861015655     -8.110685e-02
## 2417    -5    6.6   -16 -5.253528e+00 -0.9612532887      5.033339e-02
## 2418     0   -0.7   -10  2.599367e+00 -0.3091745758     -1.177229e-02
## 2419     8    5.7    10 -1.486111e+00 -1.2083333333     -4.011859e-02
## 2420    -3    2.4     5 -4.216469e+00 -0.7195812111      6.901955e-03
## 2421    -3   -0.4    37 -6.224297e+00  0.3221309435     -8.850494e-02
## 2422    -6   -2.9    79  1.420500e+00  1.2946999695     -2.425521e-02
## 2423     5   -3.1    21  1.778846e+00  0.3429487179     -1.122525e-03
## 2424   -18   -7.3   -46  2.909772e+00  1.2379908676      2.441817e-02
## 2425    18   -1.1   -75  8.247118e+00  1.3343358396      1.041255e-01
## 2426    13   -0.1    -6 -3.715035e-01 -0.0417637918      1.951354e-02
## 2427   -15   -4.1   -57  2.317761e+00  0.5808236808      1.334308e-02
## 2428    21    1.1    38  1.328405e+01  0.8797413793     -1.117691e-02
## 2429     8   -1.9    15  2.839706e+00 -0.9058823529      1.123833e-01
## 2430    20   -4.0   -14  4.864036e+00  0.9606850335      5.603988e-02
## 2431   -13   -5.9    29 -7.022837e+00 -0.2127403846      7.230602e-03
## 2432     0    2.4   -34 -7.138222e-03 -1.1369240753     -6.688267e-02
## 2433    -3   -0.4    23 -2.807860e+00 -2.2401366884     -3.968491e-02
## 2434   -13    1.0    79 -7.454327e+00 -0.1354166667     -9.859187e-02
## 2435    -5    1.6     1 -1.652081e+00  0.0257400257     -2.147892e-02
## 2436     0    4.2    -3  2.757576e+00  0.6090909091      3.461226e-02
## 2437    10   -6.6   -75  2.193340e+00 -1.0052420598      4.287057e-02
## 2438    -5    0.2    49 -5.246795e+00 -1.0460372960     -2.111860e-02
## 2439     8    2.4  -111  6.427368e+00  0.6305263158     -6.199801e-02
## 2440   -10   -7.7   114 -2.474271e+00  0.2238421955     -4.580860e-02
## 2441    10   -3.7   -85 -4.874359e+00  0.3752136752     -2.022155e-02
## 2442     3  -10.4   -68  8.756057e+00 -0.3366750209      6.108760e-02
## 2443     0   12.5    76 -5.248684e+00 -0.1263157895     -4.726627e-02
## 2444    -6    0.3    18  8.213793e+00  1.5448275862     -4.446808e-02
## 2445   -12    5.3     1 -4.548837e-01 -0.9841860465     -5.058259e-04
## 2446     5    0.1   -79  4.124113e+00  0.6861702128     -1.929273e-02
## 2447     7    3.3   110 -2.971698e+00  2.9528301887     -4.876392e-02
## 2448   -10    9.7  -111 -2.587500e+00 -0.3600000000     -4.676876e-02
## 2449    -3   -2.3    74  5.584416e-01  1.6559951676     -2.825495e-04
## 2450   -10    2.0    56 -1.283475e+00 -0.3434841021     -8.205872e-02
```

```
## 2451    13   -4.3   -55 -5.586849e+00 -1.8449131514   -9.950048e-02
## 2452   -15   -8.4   135  4.332211e-01  0.5454545455    2.603927e-03
## 2453    -7    4.8  -131  2.371377e+00 -2.4003623188    8.818778e-04
## 2454   -10   -0.7   -43 -7.033024e-01 -0.3462332301    5.668182e-02
## 2455     7    2.3   -29  4.429630e+00  1.3185185185    2.439100e-02
## 2456    -2   -6.4     3 -1.930180e+00  0.0850225225    4.379370e-02
## 2457   -12   -3.9   111 -5.624242e+00 -1.0696969697   -1.498104e-01
## 2458     5   -3.4    17 -4.379416e+00 -0.5975422427   -5.934209e-02
## 2459    18   -6.9  -136  5.205598e+00 -0.3243243243    2.486902e-03
## 2460     5   -2.4   -26  2.320024e-01  1.0184513007    1.494610e-02
## 2461    -8    1.7   119 -8.435338e+00 -0.6315789474   -9.458921e-02
## 2462   -10    0.3   115 -4.564706e+00 -0.7756302521    8.943056e-03
## 2463     0   -3.2    20 -3.126600e+00 -0.1081081081   -6.963250e-02
## 2464     3   -0.1    38  3.170300e+00  1.7274964838   -4.915671e-02
## 2465   -11    5.4   134 -5.031250e+00  1.1612500000   -3.862631e-02
## 2466    10    0.8     9  3.414931e+00 -3.1112095702    3.354610e-02
## 2467    -2   -3.6   -54 -3.916667e+00  0.2666666667   -6.214747e-03
## 2468    15  -10.7   -79  4.450621e+00 -1.5842696629    1.426768e-01
## 2469   -13   -3.7   -89 -1.623529e+00 -0.1058823529    7.895090e-02
## 2470    13    0.4    68  4.947619e+00  1.5761904762   -4.720363e-02
## 2471     0   -7.5   -41  1.178571e+00 -0.2280219780    6.377225e-02
## 2472     2    1.3   -34  6.730092e-02 -1.5715292459    2.976532e-02
## 2473     3   -0.5   -19  2.640275e+00 -0.4864457831    3.440522e-02
## 2474   -10   -9.6  -122 -9.919175e+00  0.0585284281   -3.041115e-02
## 2475     2   -1.5     1  5.469499e+00 -0.8104575163    1.576925e-01
## 2476     2    7.8   -41 -3.271795e+00 -2.6574358974    6.534525e-03
## 2477     5   -1.4    69  5.073285e+00 -1.6109765940   -6.541358e-02
## 2478     5   -0.4   -47  1.856577e+00 -0.9116114238    1.367716e-01
## 2479    -5    8.5     9 -7.730769e-01 -1.6625000000   -8.500135e-02
## 2480    -3    3.3    20  7.346257e-01 -2.6751336898   -3.533000e-02
## 2481     2   -5.3    44 -2.639907e+00  0.5722851432   -1.758606e-03
## 2482     5   -2.2    43  2.630064e+00  1.3176972281    4.392949e-02
## 2483    -5    1.9  -188  1.330740e+00 -0.4618265630   -6.478734e-02
## 2484     5    3.4  -112  6.575078e+00  0.7788161994    3.518643e-03
## 2485    -7    1.6   122 -4.719577e+00 -1.1675485009   -1.008176e-01
## 2486   -20    2.6    63 -2.567935e-01 -0.5618206522   -4.517057e-02
## 2487   -10   -1.6   -66 -3.337662e+00 -2.5844155844   -1.379392e-02
## 2488    13    0.2   -61  5.699595e+00 -0.7712550607    3.473037e-02
## 2489    -7   -0.8   -53 -2.031339e+00 -2.6068376068   -7.535873e-03
## 2490     5    0.1  -101  8.403263e-01 -1.0477855478    2.425690e-02
## 2491    13   -6.7     1  8.313589e+00  0.6984126984   -1.591000e-02
## 2492   -10   -0.3   -74 -3.239526e+00 -1.6656126482    6.642658e-02
## 2493    15    4.0   -23  3.922495e+00 -1.1546503244   -4.699747e-02
## 2494    -7    0.0    55 -4.385281e+00 -0.6190476190   -9.629524e-02
## 2495    -3    1.8    75 -5.682263e+00  0.4194318453   -4.811286e-02
## 2496     3   -3.8    33 -2.010473e+00  0.9245214879   -1.067715e-01
## 2497    -7   -7.1   -91  3.235582e-01  1.4589442815   -3.662810e-02
## 2498     2   -4.0    90  2.296296e+00 -1.5185185185    5.249584e-02
## 2499    -8   -2.9   -62  1.202326e+00 -1.3569767442    7.662115e-02
## 2500     0   -5.5    49 -3.777052e-01 -1.0281747652    4.349563e-02
## 2501     5    0.2    31 -2.169046e+00 -0.2096041531   -7.683900e-02
## 2502    -2   -3.9   -26  2.293177e+00  0.4070717839   -5.302640e-03
## 2503    10   -1.6   -56  4.817857e+00 -1.8607142857    2.272229e-01
## 2504    10    5.8    58  1.082175e+00 -1.5948361470   -9.771423e-02
## 2505    -5   -4.6   -17 -4.821927e+00  2.6430030644    2.362777e-02
## 2506     5    3.0    -8  4.320246e+00 -0.3022887324    6.938989e-02
## 2507     5    2.7  -212  3.362037e+00 -0.1518518519    3.051521e-02
## 2508    -3   -6.8   -91  2.441463e+00 -0.5545966229   -7.377015e-03
```

```
## 2509    13    2.7    -7 -1.442308e-01 -0.3317307692         2.835750e-02
## 2510    -5   -1.5    -2 -1.713131e+00 -2.5212121212         6.838128e-02
## 2511   -18    3.8   -29 -3.336440e+00 -0.2534948742         8.168957e-02
## 2512   -15    2.4   126 -5.228070e+00 -1.6315789474        -4.051303e-02
## 2513    -5    0.1    -3 -3.956790e+00 -0.1419753086         3.509614e-02
## 2514    -5   -2.8    29 -8.169192e-01  0.7747474747        -6.028234e-02
## 2515   -10   -4.0    16 -1.430701e+00  0.9692218351        -2.086418e-02
## 2516    -8    1.5    25 -2.419540e-01  0.1051724138         1.219964e-02
## 2517    -3    1.6    -9 -1.253637e+00 -0.1504111322         6.627026e-02
## 2518    10   -1.4    24  3.927285e+00 -0.7084568042        -5.773587e-03
## 2519    -8   -7.2   -36 -7.097579e+00 -0.2887244450         5.933294e-02
## 2520    10    0.3   -13  4.256881e+00  0.6748216106         8.926874e-02
## 2521     3    1.2    11  3.336232e-01  0.0474475220         1.636344e-02
## 2522     5    4.2   -86 -1.140787e+00 -0.7194616977        -1.527574e-02
## 2523   -18    4.4    -2 -5.316794e+00 -1.7984237984         7.005309e-02
## 2524    -2   -3.6    11 -1.108877e+00  1.0113161942         8.042361e-03
## 2525    -3    6.5   -11  9.673295e-01 -2.1377840909         7.646628e-02
## 2526    -3    0.9    14  1.478132e+00 -0.7277383767        -3.232059e-02
## 2527    -8   -1.8    -4 -5.825758e+00 -1.6530303030        -1.552443e-02
## 2528     0    7.7    30 -5.998599e+00 -0.3690476190        -1.294318e-02
## 2529     8   -5.0     6  7.495421e-01  2.2799908425        -1.043960e-01
## 2530    -5    0.9    -3 -4.505688e+00 -0.9171609140         3.454361e-02
## 2531     3   -5.7    -1 -3.454007e+00  1.7931314443        -4.039575e-03
## 2532     0    4.8     2  4.342249e+00 -0.1151855047         3.931265e-02
## 2533     8   -6.2   133 -2.013759e-01  0.1926203877         6.212983e-02
## 2534    -3    8.4   -29  6.903922e+00 -2.0205882353        -1.579002e-02
## 2535    10    1.6    38 -1.598507e+00 -0.0798442064         2.813883e-02
## 2536    13   -5.5  -121  3.837189e+00  1.8077258839        -1.117116e-02
## 2537    11   -5.6    59  2.315476e+00 -0.3432539683        -2.092632e-02
## 2538     0   -3.3    22 -2.989474e+00 -0.0815789474        -7.176627e-02
## 2539    10   11.9   -43 -1.797101e+00 -0.3478260870        -2.896261e-03
## 2540    -5   -2.0     3  5.729074e-01  0.9603667554        -1.666729e-02
## 2541    -6    1.2   -93 -8.369523e+00 -2.2268743914         5.512523e-02
## 2542    16   -4.9   -20  1.239927e+01  0.2857142857         1.575182e-01
## 2543    20    2.2   -34  8.799620e+00  0.1111111111         4.502439e-02
## 2544    -8   -0.1   -48 -1.282051e+00  1.6809116809        -3.912415e-02
## 2545    10   -2.1   -39  1.762857e+00  0.8066666667         1.133387e-01
## 2546     0   -2.0   -12 -8.793860e-01  0.3804824561        -5.587605e-02
## 2547     7   -0.2    24  4.131434e+00  0.8375812094         6.831112e-02
## 2548     3    1.6   -88  5.145705e+00  0.3690080683         7.407499e-02
## 2549     3    2.0   -36 -2.301282e+00 -1.7897435897        -1.510058e-02
## 2550     5   -5.7    84  6.369103e-01  0.6790009251        -3.522673e-02
## 2551    -5   -7.2  -105 -7.934508e+00  0.3414228723        -1.199110e-01
## 2552   -10    3.0    22  1.646739e+00  0.7786231884        -2.783337e-03
## 2553     7    2.4   -39  7.764706e+00  0.8529411765         1.565763e-02
## 2554     2   -5.1   -28  1.957184e+00  0.2702586207        -2.265560e-02
## 2555     3    1.3   -29  4.266667e+00  0.0875000000         4.611415e-03
## 2556    10   -1.7   -35  5.019231e-01  0.5974358974        -1.470526e-02
## 2557   -23   11.4    30 -3.221884e+00 -2.0455927052        -5.078657e-03
## 2558    10   -0.2   -35 -4.575000e-01 -1.4525000000         5.259362e-02
## 2559   -10    3.9    67 -5.265857e+00 -0.3117408907        -4.640180e-02
## 2560    16   -4.6   -60  1.155357e+01 -0.6357142857         6.878124e-02
## 2561     0    3.4   -34  1.841570e+00 -0.6845930233         2.850696e-02
## 2562     0   -1.4   -15 -2.261538e+00  0.2461538462        -1.890362e-02
## 2563    -8    2.7   -45  3.325933e+00 -2.1799716580         1.736568e-01
## 2564     8   -2.5   -71  3.277529e+00 -0.3752276867         1.593122e-02
## 2565     2    2.6    24 -3.034922e-01  0.5000000000        -4.308124e-02
## 2566     3   -1.5   167  3.017886e+00 -0.0959349593        -9.586091e-02
```

```
## 2567     3  -2.9   -10  4.370370e+00  1.9753086420   -4.912356e-02
## 2568    -8   0.3    20 -6.107890e+00  0.9355877617    6.173084e-03
## 2569   -11   6.8    43 -6.423503e+00 -0.0550628234   -5.373244e-02
## 2570    -5  -1.6    49 -1.990712e+00  0.4561403509   -6.387112e-02
## 2571    -3  -0.4     5  6.519417e-01  0.3434951456    2.147332e-02
## 2572     5   4.8    60 -5.194643e+00  0.5491719485   -3.970209e-02
## 2573    15  -2.9   -41  1.866676e+00  1.1510002740   -2.812519e-02
## 2574   -11   1.5    64  1.076349e-02  0.4219288175    1.183211e-02
## 2575    18 -11.5   -75  8.242741e+00  0.6405342625    1.064228e-01
## 2576     7  -0.4    22  1.195752e+00  0.0957516340    9.644379e-03
## 2577   -18   7.0    50 -5.294074e+00 -1.2070517629   -9.052962e-02
## 2578     0  -3.5    38 -6.136986e-01  0.1342465753   -2.380210e-02
## 2579     2   1.8    80  9.033333e+00 -0.0111111111    8.218748e-02
## 2580   -20  -3.2    85 -6.740171e+00  1.8230769231   -3.693882e-03
## 2581     0  -1.0   -31  1.823739e+00 -1.4355198572    4.521044e-02
## 2582    25 -10.8  -119  2.113889e+00  0.0458333333    9.830368e-02
## 2583     2   0.5    82  8.528736e-01 -0.4977011494    4.089287e-02
## 2584    -7   6.1    60 -3.757308e+00  1.4087148373   -9.614546e-02
## 2585     5  -6.8   -36  1.489037e+00  0.6355481728    2.594341e-02
## 2586     0   7.5    56  9.422287e-01  1.2454545455   -6.441743e-02
## 2587    -2  -4.9    -6  2.041128e+00 -0.5125342734    8.737858e-03
## 2588   -15   0.3    32 -3.673754e+00  0.0938416422   -1.234546e-01
## 2589     8  -1.9    -1  2.491529e+00  1.3539377289    2.372151e-03
## 2590   -15   3.7   -29  2.500000e+00 -1.0000000000    1.034393e-01
## 2591    10  -0.8    -3  4.250749e-01 -0.1956793207    7.988025e-02
## 2592   -10   2.9    27 -1.241379e+00 -0.2974712644    1.429171e-03
## 2593    -3  -1.1   -18 -6.888000e+00 -0.9333333333   -1.529845e-02
## 2594     7   1.4   162  1.718750e+00  0.8000000000    1.357223e-01
## 2595     0  -1.2    13 -6.937852e+00  2.7098465473   -7.746239e-02
## 2596     2  -1.8   197 -4.422249e+00  0.9808612440   -4.461703e-03
## 2597    -2   4.7     6  4.556818e+00 -0.7005813953    9.235657e-02
## 2598     2  -2.1   -15 -2.558442e+00 -0.1711659127   -6.058082e-02
## 2599     0  -1.4    42 -4.340756e+00 -0.8026315789   -1.152772e-01
## 2600    10   5.1    60 -2.512369e+00  0.8144584937    2.515396e-02
## 2601   -15   9.6    28 -1.297391e+00  1.9437681159   -8.874032e-02
## 2602     5   3.0    25  1.667500e+00  0.4550000000   -9.463540e-02
## 2603    13  -9.7   -83  3.387699e+00 -0.7187882497   -3.249664e-03
## 2604     7   6.4    46  9.600379e+00  1.8579545455    1.350097e-01
## 2605   -10   2.6  -146  4.517544e-01 -1.0877192982   -5.464646e-02
## 2606     0  -3.3    45 -3.316152e+00  0.8849265808    2.520905e-02
## 2607     3  -4.4     6 -5.864528e-01 -1.7023172906    4.383310e-02
## 2608    -8   0.7     6  1.703704e+00 -0.6498316498   -1.168667e-02
## 2609    10  -3.8   -28  6.132353e+00  1.2647058824    5.476963e-04
## 2610     0   4.4    22  1.058866e+00 -1.1220930233    5.171633e-02
## 2611    -7   2.5   -33 -1.629167e+00 -1.8833333333   -1.554349e-02
## 2612    11  -5.5   -10 -2.867631e+00  0.3559510567    8.157189e-03
## 2613     2   0.0    11  6.971795e+00  1.1179487179    1.035512e-01
## 2614    -8  -1.7    36 -8.019395e-01 -2.2462533059    3.693674e-02
## 2615    15   3.4    20 -2.555195e+00 -1.4396103896   -4.608601e-03
## 2616   -10  -2.0    26 -2.595238e+00 -0.4238095238   -2.956158e-02
## 2617   -10  -2.3    36 -2.198030e+00  0.9926108374    9.508169e-04
## 2618    12  -0.1    41  4.573593e+00  0.6807359307   -1.043778e-02
## 2619     0   0.3   -45  3.918182e+00  0.7022727273    8.207931e-02
## 2620    -3  -5.8   -48  5.703704e+00  0.0864197531    7.168312e-02
## 2621    10  -7.5  -107  2.387075e+00  0.4530612245    1.390624e-02
## 2622    -3   6.4    38 -6.255829e+00  0.2509438152   -8.634085e-02
## 2623     5   7.4    12  1.103727e+00  1.4859213251    8.530494e-03
## 2624     2  13.7    59  5.500000e-01 -0.5522727273   -3.874664e-02
```

```
## 2625     5    0.8    29   6.852941e+00   1.3122171946        2.846287e-02
## 2626    -3    3.5   -30   2.966769e+00   0.6531703591       -4.899889e-03
## 2627    15    5.0   -26   4.627451e+00  -0.7859477124        1.711318e-02
## 2628     5    1.6     4  -1.207792e+00   0.2045454545       -5.436174e-02
## 2629     5   -6.0    35   1.169450e+00   2.4409400124        2.508981e-02
## 2630    -5   -3.1    -9  -2.882970e+00  -1.9100080710        7.151148e-03
## 2631     7   -2.2    41   2.623693e+00   2.2857142857       -3.394770e-02
## 2632    -7   -5.5    72  -8.788732e-01   2.1528169014        3.060816e-02
## 2633   -15    2.0    20  -1.194444e+00  -0.3761904762        6.685035e-02
## 2634     7   -1.8    27  -5.089788e-01  -0.0729027070        4.202669e-02
## 2635     7   11.1    -2   1.777965e+00  -0.6030277544       -1.967173e-02
## 2636    -3    5.0     7   2.553991e+00   1.3818466354        1.060591e-02
## 2637    -8    6.9   -34   7.874494e-01  -1.3967611336        4.875730e-02
## 2638     7    2.7   -39   4.716895e+00  -0.7602739726       -4.230325e-02
## 2639     5   -0.3     6   3.732353e+00   2.1980392157        2.977368e-02
## 2640    -5    0.4  -100   3.449206e+00  -0.8460317460        4.935742e-02
## 2641    22   -3.0   -38   2.984300e+00  -0.1020531401       -1.463387e-02
## 2642    -2   -5.5    29  -4.079265e+00   1.2462326703       -7.698848e-03
## 2643     0   -2.3    29   3.851351e-01   1.1003861004        3.125464e-02
## 2644   -10    2.4    20  -1.945597e+00  -0.9209393346       -8.336361e-03
## 2645     0   -0.5   -11  -6.291573e-01  -0.1917979495       -1.119988e-02
## 2646   -10   -0.4   -21   1.838851e+00  -0.1922297297        4.271800e-02
## 2647    -2   -2.1   -28   1.254702e+00  -0.0799373041        1.300403e-02
## 2648    12   -8.1   -89   4.915966e-01  -1.9075630252        1.285372e-01
## 2649   -16    1.5   -19  -2.093750e+00  -1.5340909091       -9.525479e-02
## 2650    -8   13.8    94  -8.626984e+00   0.1031746032       -1.602356e-01
## 2651     3    0.0     7  -4.518293e-01  -1.1695121951        1.368026e-02
## 2652     5    1.1   129  -5.975976e-01   0.1936936937       -1.857623e-02
## 2653     2   -4.4    39  -5.872186e+00   0.1042120552       -5.715105e-02
## 2654    10   -2.9    26  -1.858142e-01  -0.7472527473       -5.462083e-02
## 2655    -7   -1.0    13  -1.928571e+00   0.4076655052       -7.770780e-02
## 2656    -3    5.0    38  -1.497175e+00  -1.6537269911       -3.648167e-02
## 2657    -5    6.2   -39  -2.080586e+00  -1.6996336996        1.178567e-02
## 2658    13   -4.0   -74   7.037438e+00  -0.8072249589        4.613077e-02
## 2659     5   -1.8   -55   2.851515e+00  -0.4474747475        1.370596e-02
## 2660     8   -0.8    -9   1.345161e+00   1.1215053763       -1.038105e-01
## 2661    -5    9.5     7   3.390683e+00  -0.6919254658       -8.432837e-02
## 2662    -3    1.5   -51   1.496053e+00   0.9526315789        3.434013e-02
## 2663    -5   -3.7   -35   4.030139e+00   1.2573839662        9.380871e-02
## 2664   -17    4.5    50   1.900000e-01  -2.9057142857        2.032413e-02
## 2665   -28   -5.4  -115  -1.162269e+01  -0.3672839506       -6.843310e-02
## 2666     8  -11.7   -85   3.797753e+00  -0.2047440699       -1.902418e-03
## 2667    -5   -1.2   -32   5.895470e+00   0.1585365854        3.115375e-02
## 2668     2   -3.5   146  -8.910805e+00   3.0533333333       -1.116254e-01
## 2669    21   -7.1   109   5.323729e+00   2.5610169492       -9.533436e-02
## 2670     0    7.3   -85   6.972222e-01  -0.4638888889       -2.968193e-02
## 2671    -3    0.9    55   1.469349e+00   1.6781609195        2.754513e-02
## 2672    -3   -4.1     4  -3.653530e-02  -0.5960591133        3.108945e-03
## 2673     3    8.2   454  -4.593496e-01   1.2611788618        8.191329e-02
## 2674    -2   -4.1   -36   4.009259e+00   0.1064814815        1.787473e-03
## 2675    16   -3.3   -47   3.314815e+00  -1.6851851852       -1.140042e-02
## 2676    -2    1.7   -26   1.336790e+00   0.4325925926        9.005061e-03
## 2677     8   -4.2   112   2.775510e-01  -1.2870748299       -1.026704e-03
## 2678    10   -6.1   -48   5.525424e+00   3.2519774011       -5.101249e-02
## 2679    -2   -6.4    58  -4.119255e+00   0.0347826087       -5.617798e-02
## 2680    -8    0.4    62  -1.620447e+00  -0.5554249902       -3.398517e-02
## 2681    -2   -8.9   -78  -3.558140e+00   0.3488372093        3.045887e-02
## 2682    -3    1.9   -50   5.245442e-01  -0.9221598878        5.673037e-02
```

```
## 2683      15 -11.4  131  1.385621e+00  0.5620915033       -2.399150e-02
## 2684       5  -7.1   61 -3.457778e+00  0.2844444444       -3.979261e-02
## 2685       5  -5.7   22  2.095238e+00  0.4380952381       -1.398381e-02
## 2686      -2   2.5  -77  2.894504e+00 -0.2096631206       -1.625306e-02
## 2687      18  -2.6  -74  6.851935e+00  0.6372637264        6.993665e-02
## 2688       0  -1.3   26  7.226107e-02  0.9527972028        2.131478e-02
## 2689     -10   3.7  -75 -7.241176e+00 -0.4117647059       -4.960585e-02
## 2690       0   6.7 -157  1.809890e+00 -0.4417582418       -1.277903e-02
## 2691      -2  -5.4  -72  2.211820e+00 -0.2243498818        4.261132e-02
## 2692     -15   3.2   -4 -6.849438e-01  0.4945318352        2.460481e-02
## 2693      18   1.3  -78  6.420870e+00 -1.0802898551        1.659394e-02
## 2694       0   0.3   52  3.452174e+00  0.6226613966       -7.765519e-02
## 2695     -11   1.1  -68 -1.190647e-01 -2.4724409449        4.561615e-02
## 2696     -30   7.7   52 -6.634964e+00 -0.0588768116       -5.705571e-02
## 2697      -8  -0.2   68 -2.452358e+00  0.4978861789       -2.433557e-02
## 2698       0   4.8  -56  3.116010e+00  0.4155722326        6.704084e-02
## 2699      -2   3.3  -36 -1.614795e+00  1.7298367145        1.160852e-02
## 2700      12   3.7  -52 -3.201970e-02 -0.6798029557       -8.578202e-04
## 2701     -11   3.7   70 -9.960438e-01  1.3222763238       -1.668915e-02
## 2702      10  -1.0  -79  5.700815e+00 -1.0141793690        3.746874e-02
## 2703       0  -6.8   13 -4.318346e+00  0.3432647165       -1.206777e-02
## 2704       5  -4.7  -53  2.860079e+00  1.1880630631        5.496432e-02
## 2705       0  -0.6  102 -3.359079e+00 -1.1002557545       -1.702689e-01
## 2706      18   3.3   51  1.324848e+01 -2.8403150734        1.449827e-01
## 2707      -8   5.4   69 -8.190414e+00 -0.4054478785       -6.418330e-02
## 2708      10   1.1   53 -7.274453e+00 -0.0641542002       -1.194790e-01
## 2709      -8  10.1 -116 -4.044370e+00 -1.5428571429        2.149979e-02
## 2710       8  -1.2  -84 -1.314551e+00 -0.6563467492       -2.871179e-02
## 2711       0   6.1  -43  4.959436e+00 -1.1975308642        1.168804e-01
## 2712     -23  -0.3  -32 -8.579548e+00 -0.1456701723       -4.407246e-02
## 2713      -3  -2.6   51 -3.946785e-01 -1.0626385809        2.425239e-02
## 2714      10  -5.2   55  8.572500e+00  2.2300000000       -3.352713e-02
## 2715       2   6.9  -52  3.670197e+00 -1.2379310345        1.461862e-01
## 2716     -13   3.5  125 -3.137987e+00 -0.1152597403       -7.376780e-02
## 2717      -8   9.3  -79 -3.174603e-02 -0.1111111111       -1.730121e-03
## 2718      -5   3.2   24  2.307070e+00  0.0654724160       -3.865529e-02
## 2719      -2   1.5  -42 -5.904924e-01 -0.6869269949       -2.045915e-02
## 2720     -13   2.5   45 -3.972623e+00  0.6132075472       -3.660236e-02
## 2721     -15  -0.6   54 -6.238632e+00 -0.8148893360       -1.130629e-01
## 2722       7   1.3    8 -2.600000e+00 -0.5763157895       -2.414166e-03
## 2723     -15  -1.0  -34 -6.128185e+00  0.5261261261        9.414597e-02
## 2724     -15   3.7   -5 -3.715286e+00  0.0086786114       -8.797045e-02
## 2725       2  -5.3   49 -2.075575e+00  0.5372398686       -1.788905e-02
## 2726     -18   2.4   65 -5.418069e+00  0.6305295950        2.318770e-02
## 2727       3   8.2   29  2.615338e+00 -0.6117149758       -2.842555e-02
## 2728       2  -0.6 -103  2.492268e+00  1.2766323024        1.006034e-01
## 2729       3  -4.3  -85  3.577079e+00 -1.5308316430        3.110647e-02
## 2730       0  -0.9  -34  1.248930e+00 -1.5381219904        5.074480e-02
## 2731      -5   0.0 -119 -2.591667e+00 -2.6833333333        8.283955e-02
## 2732       5  -4.7 -459  2.211069e+00 -1.2711069418       -2.427569e-03
## 2733       0   3.1    2 -3.943154e+00  0.3480832421       -8.251060e-03
## 2734       5   0.4  -20  4.498240e+00 -1.7868275515        7.382011e-02
## 2735       0  -8.2  153 -4.064276e+00 -0.2822543083       -4.416142e-02
## 2736      -2  -0.9  -31 -3.740530e-01  0.6946699134        5.390874e-03
## 2737      10   3.2  -22  4.222222e+00 -0.1805555556        6.605948e-02
## 2738      -5   2.0   28  3.138393e+00 -0.3318452381       -1.021283e-01
## 2739     -13   2.3  -20 -5.243702e+00 -0.8633720930       -9.965525e-03
## 2740       8  -3.8   -2 -1.917989e+00 -0.0621693122       -3.853043e-02
```

```
## 2741     5  -1.0    -9  2.333662e+00 -0.0307219662        -2.499899e-02
## 2742     2  -0.7    49 -6.801994e+00  2.0269192423        -9.629215e-02
## 2743   -13   3.1   -13 -7.747984e+00 -0.6826645425        -2.481736e-02
## 2744    -2  -0.9    14 -3.578692e+00  1.2324455206        -1.000488e-01
## 2745     8 -12.3   116 -8.756410e-01  1.0692307692         4.402118e-02
## 2746    -2  -7.0   -33 -4.325252e+00  0.2100860710         1.877689e-02
## 2747     3   4.5     8  6.105882e+00  0.6452488688        -7.274091e-03
## 2748    -2   5.7    40  3.553686e+00  0.8156853043         3.684898e-02
## 2749    -3   3.7   -16 -2.953081e+00 -1.1995798319         6.875109e-03
## 2750    -5   5.4  -156 -1.497494e+00  0.4561403509         3.562961e-02
## 2751    -5   1.0    -3 -4.641945e+00 -0.8961832061         2.718048e-02
## 2752     0  -2.1   -17 -6.509463e+00  0.5774936061         9.066425e-03
## 2753     3  -1.0     1  8.194880e-01  1.6120689655         3.285229e-02
## 2754    26  -3.1   -56  1.100746e+01 -2.1147446931         6.913500e-02
## 2755   -10  14.4    68 -2.152338e+00 -1.2043740573        -7.666065e-02
## 2756   -12   4.3   -37 -8.097826e-01  0.7907608696         7.165798e-02
## 2757    -8  -0.3    92  2.866310e+00 -2.7219251337        -7.175881e-02
## 2758    18  -7.2  -104  3.232323e+00  1.9494949495        -6.741956e-02
## 2759   -33   7.4   123 -1.154762e+01 -0.0302197802        -8.114533e-02
## 2760    -3   3.2   -17 -1.475626e+00 -0.8194993412         2.429723e-02
## 2761    22  -1.0    21  1.105000e+01  1.5700000000         8.019899e-02
## 2762   -28   2.0    20 -1.453791e+01  0.3457516340        -1.132187e-02
## 2763     8   2.4    40  1.665266e+00 -0.8263305322        -5.041464e-02
## 2764   -20   6.8   -83 -5.025641e+00  0.4328808446         3.795076e-02
## 2765   -26  -1.0    50 -1.419203e+01  1.2681063123        -5.510566e-02
## 2766   -38   4.3    28 -1.478465e+01  0.0850140967        -4.884345e-02
## 2767     5   5.1    57 -3.103488e+00 -2.0860465116        -3.682234e-03
## 2768     0   4.7  -105 -1.150000e+00 -1.0375000000         1.630797e-03
## 2769     3  -5.2   -27 -2.945933e+00  1.1493055556        -1.179620e-01
## 2770     2  -1.8    59  3.222689e+00 -0.0260504202         3.181311e-02
## 2771    -2   1.2    34  1.037719e+00  0.5087719298        -4.228510e-02
## 2772    -2   9.6    96 -1.226502e+00  1.1371340524        -8.692337e-03
## 2773     0  -2.1    15 -1.400903e+00  0.0255975908        -6.518184e-03
## 2774    -3  -0.7   -54  3.697512e+00 -0.9208955224        -2.439048e-03
## 2775    -7  -0.8    -7 -8.243464e+00 -3.9640522876         3.212851e-02
## 2776     8  -4.1   -23  1.053824e+00 -0.3529581530        -3.354314e-02
## 2777     3  -4.5   -19 -2.558140e-02  1.0108527132        -4.537198e-02
## 2778    -5  -3.2    -9  9.950249e-04 -2.4589552239         3.509413e-02
## 2779    -8   0.3   130 -3.311353e+00  1.7115825688        -5.826653e-02
## 2780    -8   0.7    30 -5.282540e+00  0.0071428571        -1.260899e-02
## 2781     5  -6.5    49 -1.808219e+00 -0.9398390058         1.972190e-02
## 2782     7  -5.5   -13  1.138172e+01  2.1577060932         4.796106e-02
## 2783     0  -2.4   -68  2.019307e+00  1.5408073717         5.504637e-02
## 2784    -8   6.0   -65 -1.907167e+00 -1.3240564239         1.255348e-01
## 2785    -6   3.1   -74 -4.849580e+00 -2.3025210084         3.451793e-03
## 2786     5  -3.0   -46  6.863627e+00  2.0572640509         4.616837e-02
## 2787     8   1.5   -71  4.030303e+00 -2.4151515152         1.354912e-01
## 2788     5  -5.2    14 -2.532728e+00 -0.3569039656        -9.021948e-02
## 2789    -2  -1.0   -31 -9.538346e-01 -1.5315620878        -2.146815e-02
## 2790   -15   4.9   -68 -8.351733e+00 -3.3162173727         6.142413e-02
## 2791     0   0.8    -3  3.446327e+00  2.2594213932        -4.885434e-03
## 2792     3  -1.1     3 -1.664414e+00 -1.0212022367        -4.548736e-02
## 2793    -8   3.4    -8 -4.931345e+00 -0.4041535826         6.629757e-02
## 2794     7  -6.2   -33  1.004695e+00  1.2120500782         4.248477e-02
## 2795   -18   2.3     1 -6.068581e+00 -1.2225641026         9.016859e-03
## 2796     2   5.5     8  8.378495e-01  3.8103225806        -4.852679e-02
## 2797    10   3.7    14  3.568452e+00  2.7698412698         4.314324e-02
## 2798    -3  -6.0   -30 -7.755102e-01  1.4617346939        -2.211793e-02
```

```
## 2799     15    8.4    -18   5.476190e+00  -0.5571428571        7.178683e-02
## 2800      5    0.4     32  -9.375000e-01  -0.2430555556        1.094395e-01
## 2801      5   -7.2     75  -7.572509e-01   1.7736443884        4.851572e-03
## 2802    -16    2.4      2   1.968254e-01  -2.7968253968        4.140833e-04
## 2803      3   -6.3      7   3.875270e-01  -0.7312545061        1.535601e-02
## 2804     18   -2.4    -47   5.041667e+00   0.0787037037        1.113433e-02
## 2805      7   -4.2    -26   3.672401e+00   0.1326164875        8.871650e-02
## 2806      5    7.2    213   4.543333e+00  -0.3433333333       -1.255567e-01
## 2807      0   -0.4    -85   2.749814e+00  -0.4884586746       -3.885741e-02
## 2808     -3    1.9     18  -2.621622e+00   0.5565110565        5.088251e-02
## 2809     -5    8.7     10  -3.703001e+00  -0.4277403552       -5.458429e-02
## 2810      5   -3.2     39   2.354125e-01  -0.2917505030        4.412807e-03
## 2811     -2   -1.6     77   3.277922e-01  -1.0488311688       -4.558758e-02
## 2812      5    4.5    216   3.409091e+00   2.4090909091        6.799413e-02
## 2813     -7    3.8     -3   2.313043e+00  -0.7217391304        7.623014e-02
## 2814    -10   11.3    -21  -7.660256e-01  -0.8878205128       -4.131882e-02
## 2815     -2    0.2    -88  -2.449260e+00  -2.0539112051       -2.189827e-04
## 2816      5    4.1     65   5.015625e+00   0.8131250000        5.768040e-02
## 2817      2   11.8    -80  -4.638336e-01  -1.8580470163       -6.345226e-02
## 2818     13   -3.0     98   3.547009e+00   0.1538461538       -1.302130e-01
## 2819     -5    0.7     22   1.930556e+00   0.5302287582        8.714086e-03
## 2820    -14    2.0    -84  -1.021429e+00  -0.0035714286        1.642700e-01
## 2821      5    1.4    -76   5.388100e+00   1.5003380663       -6.666980e-02
## 2822    -21    5.3     56  -1.143907e+01   0.7966634429       -9.949861e-02
## 2823      5   -5.2    -18   5.144748e-01  -0.5467328371       -7.335110e-03
## 2824    -10    0.6    287  -1.064783e+01  -0.7434782609        1.086352e-01
## 2825      5    7.3     28  -4.585314e+00  -0.6421361120       -7.322298e-04
## 2826     30   -8.1    -68   7.413500e+00  -0.7717246877        8.181179e-02
## 2827    -10    1.0    -27  -1.204190e+00   0.4108818011       -6.789467e-03
## 2828      8    3.2    -59   5.944974e+00   0.5519686965        4.141321e-02
## 2829      0   -0.6     63  -4.978448e-01  -0.0614224138       -6.178716e-02
## 2830     10    8.2    152   2.634738e+00  -0.5734355045       -2.016424e-01
## 2831      0    2.9   -118   6.704545e-01   1.4835858586       -5.776195e-02
## 2832     26   -1.7    -50   1.252119e+01  -0.8586635127        5.527203e-02
## 2833     10   -3.0    -48  -5.848485e+00  -0.1578282828        5.564874e-02
## 2834     10    6.7    -69  -4.180622e-01  -1.6913875598       -4.602027e-03
## 2835     -5  -10.5    111  -2.458333e+00   1.6310606061        9.389679e-03
## 2836      0    3.6    -97  -3.656684e+00  -0.4155080214       -1.037928e-02
## 2837    -13    1.9     47  -6.000000e-01   0.4444444444       -1.015507e-01
## 2838      5    0.3     19  -3.645403e+00   0.1166353971       -5.198575e-02
## 2839     18   -3.4     26   7.185949e+00   0.2727497222        1.353183e-02
## 2840     -3    2.9      6  -2.365475e+00   0.3966806919       -1.108994e-02
## 2841     -8   -2.2     22  -4.290196e+00  -1.8658410733       -9.467656e-02
## 2842      2   -4.2     57  -8.115942e-01   0.3046435966       -2.210474e-03
## 2843     -8    7.8     50  -4.259560e+00  -0.8950216450       -2.582463e-03
## 2844      2    3.4     37  -1.186667e+00  -0.2317299578        2.922823e-02
## 2845     -5    3.8   -138   9.084928e-01   0.3732057416       -2.098581e-02
## 2846     18   -2.3    -58   5.009547e+00  -1.2242225859        6.111244e-02
## 2847     -5   -0.4     22  -1.331469e+00   0.3242566971       -3.507194e-02
## 2848      5   -1.8    -29   1.629602e+00  -0.2091581869       -2.038092e-02
## 2849      5    6.0    -26   2.954991e+00  -2.3597742127        5.227933e-02
## 2850    -10    1.7     11  -3.470646e+00  -1.3091292135       -3.290339e-02
## 2851     15   -6.2     15   2.971023e+00  -0.1330573625        7.337598e-02
## 2852     -7   -1.8     -6   3.902299e+00   0.4540229885       -2.330088e-02
## 2853      5   -2.5     10  -1.986598e-01   2.0126804124        3.230653e-02
## 2854      0    2.5     -1  -7.086420e-01   0.2419753086        2.350380e-02
## 2855     -5   -1.7     -8   2.362376e+00  -2.1398918542       -3.835396e-02
## 2856      0    0.6      4  -3.029144e+00   0.1248449773       -2.306385e-02
```

```
## 2857      13    0.0    10  1.491977e+00 -0.5744544288        -1.404853e-02
## 2858       5   -7.2    45  6.730952e+00  0.5785714286         6.906287e-03
## 2859      -7    1.4    28 -2.128571e+00 -0.8340659341        -3.811091e-02
## 2860      16   -2.4     3 -1.666667e-01  2.9166666667        -3.632616e-03
## 2861      25   -5.0   -31  4.507586e+00 -0.4259259259        -2.888920e-02
## 2862      -3   -1.1  -237 -5.297222e+00 -2.2416666667        -9.818041e-02
## 2863       0    3.1    47 -1.221014e+00 -2.3451086957         1.862391e-02
## 2864     -15    3.2   -19 -2.176190e+00 -0.3619047619        -1.748051e-04
## 2865       3    0.8   294  1.612069e+00 -1.3764367816        -2.766846e-03
## 2866     -11    3.5    45 -2.153846e+00 -0.3384615385        -1.136604e-01
## 2867       8   -1.8   -24  1.274962e-01 -1.0368663594         8.491810e-02
## 2868     -12    4.6    64 -3.811343e+00  0.1319444444        -1.071775e-01
## 2869       0   -4.5    24  8.944988e-02 -2.3319713994         6.510185e-02
## 2870       0  -13.2  -522 -3.183333e+00 -0.8566666667        -9.969160e-02
## 2871       3    4.3   102 -1.409314e+00  1.8799019608        -2.296951e-02
## 2872       5   -4.1    -8 -3.190731e-01  1.7147950089        -6.342821e-02
## 2873      -8   -3.4    24 -1.053103e+00  0.8510344828         1.335856e-02
## 2874       5   -8.2    43  2.261111e+00  1.7138888889         3.898145e-03
## 2875      -5    3.0   -42  4.646572e+00  0.6926713948        -4.662414e-02
## 2876      -5    4.1   -36  2.171154e+00  0.9846153846         7.389737e-02
## 2877      -8    0.5     4 -1.281393e-01  0.1672374429        -7.485158e-02
## 2878      -2   -4.1   -43  4.271963e+00  0.0366692131         1.023862e-02
## 2879      -5    1.4   -62 -6.422222e+00 -0.9936507937         7.353556e-02
## 2880      -2   -1.9    33  6.294779e-01 -0.9513549240         9.407533e-03
## 2881      -3   -3.9    43 -6.575544e+00 -0.4867157490        -7.727445e-02
## 2882      16   -5.8     5  4.541859e-01  3.1582069875         1.041309e-02
## 2883     -10    6.4    36 -1.280519e+00 -2.3103896104         7.744069e-02
## 2884      10    1.3   -73  3.536293e+00  2.5395818652         6.597922e-02
## 2885      -3    1.8    51 -3.338634e+00  0.4737026035         8.423453e-03
## 2886      -8    1.5    21  8.000887e-02  0.2442375887        -4.087487e-02
## 2887      -3    5.2    22 -1.515152e-02  0.4545454545        -1.896650e-02
## 2888      10  -14.0   -16  4.148295e+00  0.2511363636         1.183499e-01
## 2889      -2   -0.7    -9 -6.531136e+00 -3.3131868132        -1.804554e-02
## 2890      10   -8.1    -7  3.155678e+00  0.8827838828        -5.965635e-02
## 2891       5   -4.2    66  2.176638e+00 -0.8059964727        -1.542156e-02
## 2892      -3    4.1    58 -3.782222e+00  0.0644444444         3.729842e-02
## 2893      10    0.9   -41  8.301602e+00  0.7162758300         6.258041e-02
## 2894       5   -2.8   -33 -1.744881e+00 -0.7669942670        -2.465293e-02
## 2895       0   -5.5  -231  1.191703e+00 -0.1995600251         1.369133e-01
## 2896      13   -8.7   -71  3.755102e+00 -0.7755102041         1.135904e-01
## 2897      -3   -7.1   -46  8.028139e+00 -0.0757575758         4.755301e-02
## 2898      -5   -3.9   -14 -3.660768e+00 -1.0334269663        -6.341642e-02
## 2899       8   -0.2   -51  6.562271e+00  0.5897435897         7.073916e-02
## 2900     -10   -5.9   -16  4.087783e-01  3.6136586964        -7.086725e-02
## 2901      -3    1.9    91  8.279104e-01 -0.8822388060        -3.430508e-02
## 2902      -3    8.7   -18 -2.974242e+00 -0.3227272727        -2.757073e-02
## 2903      -8    4.6    13 -2.574647e+00 -0.2396589029        -8.726760e-02
## 2904       7   -4.7    56  6.406126e+00  2.2420948617         3.673167e-02
## 2905     -10    4.7    30 -4.667333e+00  0.3031968032         4.403934e-02
## 2906       0    3.0   -10 -1.536275e+00 -1.7862745098        -1.572292e-02
## 2907      -7    1.1   -28  3.411494e+00  0.1200000000         1.048680e-01
## 2908      -8    0.0    65  1.454054e-01  1.0400000000        -5.924332e-02
## 2909      -8   -0.8   -56  5.411765e+00  0.6235294118        -5.750876e-02
## 2910       5    1.7    10 -2.443990e+00  2.1035921774         2.894088e-02
## 2911      -5  -10.4    85 -2.382353e+00  1.5632992327        -1.627139e-02
## 2912     -20    1.3     7 -4.255952e+00  2.2352607710        -1.307107e-01
## 2913      -7    3.8   -31  9.244482e-01  0.3725240521         2.976478e-04
## 2914      12   -5.4    20  6.762899e+00  0.6405797101        -2.784453e-02
```

68

```
## 2915      3    8.7    47 -6.093404e+00 -1.7251239039         -7.477522e-02
## 2916     -2    2.4   -25  2.426534e+00  2.1939139292          5.075330e-02
## 2917      2   -6.8    75 -5.520656e-01  1.3672891907         -4.048352e-02
## 2918     18    0.1     5 -1.217694e+00 -0.3385579937          7.107250e-02
## 2919     18   -4.2    10  1.201754e+00  2.0021929825         -4.097293e-02
## 2920     10    0.9  -126  6.169960e+00  1.9644268775          1.013792e-01
## 2921     -7    4.6    40 -2.870287e+00  0.7322775264         -4.106998e-02
## 2922     13   -3.3  -170  3.259259e+00  1.2051282051          2.049105e-04
## 2923      8    0.4   119  4.395484e+00  1.7064659596         -2.647827e-02
## 2924    -10   -1.4    56 -1.566216e+00  0.8864864865         -2.564456e-02
## 2925      7    4.7    33 -4.208163e+00 -1.7428571429         -8.830946e-02
## 2926     16    0.5    23  6.982847e+00  1.5060034305          1.604955e-01
## 2927     -3    4.5     9  2.017768e+00  0.7171286425         -4.892839e-02
## 2928      3    3.5    95  2.968460e-01  0.1558441558         -1.809226e-02
## 2929      2    2.6   -33 -1.731707e+00  0.4512195122          9.944181e-03
## 2930    -15   -6.7    13 -3.780455e-01  1.6299866131         -3.364951e-02
## 2931    -35    0.8   -17 -1.524615e+01  0.9401260504         -1.735926e-01
## 2932      2   -5.7   -10  4.774425e+00  1.6142241379          1.713006e-02
## 2933     -5   -6.0    57  3.270320e+00  0.6645357686         -1.927736e-02
## 2934    -19   -4.8   -38  1.772727e+00  1.4090909091          1.437860e-01
## 2935    -10   -1.9   163  8.881857e-01  0.5021097046         -6.127540e-02
## 2936     -5   -3.7   -96 -2.892857e+00 -0.9285714286          6.148556e-02
## 2937    -10    0.5   -28 -1.332192e+00  3.3022260274         -6.582972e-02
## 2938    -13    1.6   -10 -1.240310e+01 -1.6682170543          1.532865e-02
## 2939      3   -2.9    -7  2.407258e+00 -0.4025537634          1.287679e-02
## 2940      0   -5.3    25  3.272569e+00 -0.1701388889          2.576535e-02
## 2941     -8    2.0   -28 -1.535354e+00  0.1481481481         -1.206410e-01
## 2942     -3    0.9   -59  4.949573e+00 -0.9521367521          2.047502e-04
## 2943    -12   -0.9    58 -5.415152e+00 -0.3727272727         -1.682810e-01
## 2944      7    4.1   -29 -3.734940e-01 -1.0440020953          3.564226e-02
## 2945      2   11.0   -26  3.135135e+00 -0.7992277992          1.006846e-01
## 2946      2   -5.5    25 -4.368027e+00 -0.5505668934         -3.283331e-02
## 2947     13    3.9    60 -1.222972e+00  0.9518072289         -1.716545e-02
## 2948      0    6.6   -10 -1.406868e+00 -0.0291208791          2.248953e-02
## 2949    -10   -6.2    67 -1.414779e+00  1.3632686084         -1.763972e-02
## 2950     13   -7.0    12  2.239296e-01 -1.4827948516         -1.013194e-02
## 2951    -13    2.4   -64 -4.011189e+00  0.1748251748         -5.647777e-02
## 2952    -26   -1.1    59 -1.441384e+01  1.1100212089         -6.471607e-02
## 2953      0   -3.1     5  2.589048e+00  0.4500000000          2.853568e-02
## 2954     -5   -2.0   -63 -1.653846e+00  0.0169683258          5.136995e-02
## 2955     15    1.3   -27 -2.183753e+00 -0.8070938215         -8.999365e-03
## 2956     -3    0.3    39 -3.789388e+00 -1.2061224490          1.189488e-02
## 2957     -3    1.2   -57  1.481793e+00  0.0238095238          5.378984e-02
## 2958      0   -9.8  -540 -1.178571e+00 -1.7810559006         -9.475471e-02
## 2959    -15    6.3    -3 -3.326923e+00  0.3116987179         -1.401212e-03
## 2960     12   -2.2   -67  3.680312e+00 -1.6114359974          7.284496e-02
## 2961      0    8.1  -110  2.342727e+00 -1.6511805027          3.954016e-02
## 2962      6   -1.8   133 -7.338188e-01 -0.7661812298         -2.153634e-01
## 2963     10   -6.5   110  2.786667e+00 -0.4533333333         -1.500720e-01
## 2964      5    0.2    -7  6.655012e-01  0.7022144522          1.383098e-02
## 2965      5    7.0  -107 -1.353846e+00 -0.9538461538         -1.331577e-01
## 2966      8   -3.7   -38  2.093730e+00  0.3577892696         -2.412801e-02
## 2967      8   -6.9    32 -1.025452e+00  1.6301313629         -4.006272e-02
## 2968    -10    0.2   -22 -1.988046e+00 -0.0098752599          5.590263e-02
## 2969    -21    5.3    55 -1.155294e+01  0.7282878412         -9.454749e-02
## 2970     -5    2.6   -10  6.803519e-01  0.2039752362         -2.064200e-03
## 2971     10  -11.2    19  7.554278e-01  0.7171136654          4.242196e-02
## 2972    -10    2.4    11 -2.151316e+00 -1.6680161943         -2.469254e-03
```

69

```
## 2973     0  -2.6    -3 -3.768700e-01 -0.5980053702  -1.565734e-02
## 2974    13  -2.2   -18  2.147059e+00  1.6168797954  -3.336697e-02
## 2975   -13  -0.8   -20 -8.181763e+00  0.1257345491  -3.062692e-02
## 2976     0  -4.1   102 -3.887143e+00  1.2414285714  -2.262896e-02
## 2977     3  -4.9   -35  1.400569e+00  1.5762615494   3.539412e-02
## 2978   -13  -1.3   -28 -8.032598e+00  1.2458404075  -6.870282e-02
## 2979    -2 -10.6    74 -5.755578e-01  1.2403651116  -3.847541e-02
## 2980     8  -7.7   -47  4.344434e+00  0.9165895776  -1.933883e-02
## 2981    -5  -2.3    83 -2.428571e+00  0.0909090909  -1.597705e-01
## 2982    -8   4.6    23 -2.530000e+00 -0.1858823529  -9.157352e-02
## 2983    13  -7.2   -31  4.877451e+00  0.2330882353   7.266796e-02
## 2984    23   0.1   -12  9.015367e+00 -0.4056311881   8.243899e-02
## 2985     5  -5.1    -3  1.705946e+00 -0.1794594595  -8.825162e-02
## 2986   -13   9.2    -2 -1.827124e+00  0.6915052161  -5.908179e-02
## 2987   -10  -2.1    18 -8.046197e+00  2.1348208674  -1.423700e-01
## 2988     5   2.7    10 -1.676768e+00 -0.5946969697  -2.104500e-02
## 2989    -3   0.4    63 -2.662714e+00  0.4937216603  -4.850867e-02
## 2990   -15   2.3    -1  1.616348e-01  0.4726313206   4.214910e-02
## 2991    -3   2.8     2 -7.490110e+00 -0.4989010989  -4.255682e-02
## 2992     7  -8.5   -49  6.693129e+00  2.4030163385   7.720725e-02
## 2993    -7  -2.1   -17 -4.405674e+00 -0.4201418440  -8.201648e-02
## 2994    -3   3.2    34 -3.323113e+00  0.8252572899  -7.575530e-02
## 2995    -2   2.6    53 -1.074436e+00  0.4958937620  -9.324499e-02
## 2996    23  -0.3   -11  8.788810e+00 -0.0559523810   3.848375e-02
## 2997   -23  -5.1   -86 -1.523750e+01 -0.3682692308  -1.082021e-01
## 2998    -2  -0.7   -69 -2.479452e+00 -0.3338834791  -4.632438e-02
## 2999    -8  -2.5    75 -3.393980e+00 -0.8584905660  -3.705785e-02
## 3000    -5  -0.6   -85  3.279070e+00 -0.6457960644   1.533084e-02
## 3001    -5   2.1   -20  8.333333e-02 -0.8263888889  -9.130396e-03
## 3002   -10   5.9    29 -1.059829e+00 -0.3376068376  -5.907100e-02
## 3003     0   0.0    10 -1.572925e+00  0.0142802742  -6.702239e-04
## 3004    13   0.8    13  8.011465e+00 -0.1886501590   3.248756e-02
## 3005    15  -3.3   -50  6.022672e+00  1.0198380567  -5.543615e-02
## 3006     5  -7.6    52 -4.940030e+00  0.0224887556  -1.252277e-02
## 3007    -3   1.5   -23 -1.019474e+00 -0.2431578947   5.222414e-02
## 3008    10  -0.4    33 -1.791418e+00 -0.2070395371  -1.768032e-02
## 3009     0  -0.2   -17 -2.033071e+00 -1.2074468085  -1.216579e-02
## 3010     0   8.3   -24 -4.345479e-01 -0.5266531714   5.462420e-02
## 3011    10  -6.9   -83  3.723783e+00 -1.1187265918   1.859795e-01
## 3012   -13  -1.0   -31 -1.992873e+00 -0.1123903509   4.504980e-02
## 3013    16   3.1   -12 -8.575441e-01 -0.6793739968   1.281729e-02
## 3014   -23  -5.1   -45 -1.049745e+01  0.1904640490  -5.269325e-02
## 3015     8   0.6    -4 -6.568912e-01  2.3070147169   1.331885e-02
## 3016     2  -1.4   -39 -4.095596e+00 -1.5037593985   5.376408e-02
## 3017    10  -1.4    28  2.658691e+00 -0.5834164174  -1.992594e-02
## 3018     0  -0.5    -8  4.166667e-02  1.0821759259  -4.744919e-02
## 3019     3  -3.6    13  2.984504e+00  1.2799586777  -2.296826e-02
## 3020    -2   0.8    -3  2.312565e+00 -0.1800692264  -4.749584e-02
## 3021    -2   6.7   -47  6.170553e-01 -1.4241172552   4.026613e-02
## 3022    20  -1.1    18  3.635642e+00  0.2102453102  -1.061933e-01
## 3023    12   6.6   116  1.037725e+01  0.3213700426   6.861614e-02
## 3024     3  -0.6    17  1.721364e+00  0.8295454545  -2.558885e-02
## 3025    -5  -0.7    -6 -3.981894e+00 -0.5635450056   9.941492e-02
## 3026     5   0.4     6  2.850489e+00  0.3616346502   7.132461e-02
## 3027    -5  -3.3     9 -2.897321e+00  0.2989926740   4.046241e-02
## 3028    16  -1.3   -15  1.356692e+00 -0.0369603785  -8.273213e-03
## 3029     0   2.1    15  6.497222e+00 -0.4722222222  -1.212357e-02
## 3030    -8  -2.5    16 -3.177434e+00  0.1365406644  -2.290847e-02
```

```
## 3031     0    5.4     7  5.034323e+00 -0.9941811435      -4.812466e-02
## 3032    -7  -12.7    55  4.937608e+00  1.7535940196       1.274351e-02
## 3033    21   -6.4    -2  1.221141e+01 -0.3485196896       5.220652e-02
## 3034    -2    2.3   -87  2.446353e+00 -0.8997194951       1.408306e-01
## 3035   -10   -1.1    32 -6.396599e+00  0.8111111111      -8.806427e-02
## 3036    -5    1.6    81 -9.235023e+00 -2.1413210445      -1.307572e-01
## 3037    -7    3.7   -12 -9.963235e-01 -0.4821078431      -1.421121e-02
## 3038    -8    4.6    34 -4.060114e+00 -0.0851250548      -7.058560e-02
## 3039     2    5.5    44 -2.309841e+00  0.3945615982      -2.980968e-03
## 3040   -15   -1.3    22 -5.446972e+00  2.1328440367      -9.464513e-02
## 3041    -8    4.8    34 -4.072816e+00  0.7067755102       2.650767e-03
## 3042   -18   -4.6   -80 -1.375077e+01 -0.6594484168      -6.282621e-02
## 3043    -3   -6.0  -464 -4.913580e+00 -2.4222222222      -8.787537e-02
## 3044     2    3.9    53  1.933333e+00 -1.5333333333       3.586876e-02
## 3045     8    0.6    93 -2.208791e+00  0.5404595405      -8.385273e-02
## 3046     0   -3.6    -6 -8.690476e-01 -0.0819327731      -2.035413e-02
## 3047   -10    3.5   -16  3.716099e+00  0.0471567268       1.402206e-02
## 3048    -5   -0.5  -255 -3.084444e+00  0.7866666667       4.247685e-02
## 3049    -2   -8.0   -14 -7.819865e-01  0.1969696970      -1.379502e-03
## 3050    15   -4.6    11  2.887695e+00 -0.6907565499      -4.145741e-02
## 3051   -18    5.8    19 -3.631332e+00 -0.7220137586       1.064602e-02
## 3052     5    2.4    -9 -2.677124e+00 -0.3490196078       5.389767e-02
## 3053     7    2.1    15  4.312098e+00  0.4080656186       8.212177e-02
## 3054     0   -4.1    13  1.136574e+00 -1.8171296296      -4.916077e-02
## 3055    -3    1.5    75  2.208170e+00 -0.2372549020       5.180087e-02
## 3056    -5   -5.0    77  2.270923e+00  0.7993960311      -9.265259e-02
## 3057     0    8.7   -72 -1.984127e-03 -0.4226190476       6.232485e-02
## 3058   -10   -2.1    22 -5.159252e+00 -0.7491940683      -3.458854e-02
## 3059   -10    1.7    28 -5.007849e-01 -0.6903453689       1.273264e-02
## 3060   -13    7.2   -16 -5.431087e-01 -1.0610200364       4.600136e-02
## 3061    -7   -7.4   -46 -2.216374e+00  1.5229044834      -3.985516e-02
## 3062   -25   -6.5   -93 -9.807540e+00 -0.2083333333      -7.992816e-02
## 3063    11   -1.4   -30  4.791729e+00  0.0206786850       2.194224e-02
## 3064   -13    9.1   -50 -2.163338e+00 -1.7642089094       8.171507e-02
## 3065     3   -0.5    -8 -1.215601e+00  0.1817135550      -6.020013e-02
## 3066   -10    2.0    40 -8.186335e+00  0.1242236025      -2.581756e-02
## 3067    10   -5.4   -62  5.049859e+00 -0.7827553889       6.067989e-03
## 3068   -10    0.6    24 -6.046338e+00  0.7220959596      -1.439261e-02
## 3069    18    0.1    22  4.480275e+00  0.0753348900      -5.649665e-02
## 3070     2    3.5    11  3.037403e+00 -1.4458950835       2.410908e-02
## 3071     0   -4.5  -110 -2.698140e+00 -2.0072463768       5.539013e-02
## 3072    -3    8.5    28 -2.811003e-01 -0.1506849315      -8.741092e-02
## 3073   -15    2.9    39 -1.912929e+00 -1.1160606061       3.225943e-02
## 3074     0    1.6    81 -2.862676e+00  1.8020694752      -1.102317e-01
## 3075   -13    0.0     2  5.341434e-01  0.1305321749      -1.648525e-02
## 3076    -8    2.7    -6 -1.901025e+00 -0.4662149789       1.007304e-01
## 3077   -12    4.1    46 -5.682970e+00  0.2061928220       3.602410e-02
## 3078    -3   -4.5     6 -3.639615e+00  0.4023076923       2.768097e-03
## 3079    -3   -2.6   -19 -1.832660e+00 -2.9491582492       1.426218e-03
## 3080     5    0.7     7  3.931290e+00  0.5961290323      -9.355352e-02
## 3081    11   -4.1     6 -3.860629e-01  0.8056244830      -7.734290e-02
## 3082    -7    2.4     8 -3.205155e+00 -0.0940438871      -4.781369e-02
## 3083     3    4.5     5  5.653101e+00  0.5396039604       4.795256e-03
## 3084     8    1.7     8  3.290169e+00 -0.8733559322      -6.624878e-02
## 3085    -2    5.4     3  1.132157e+00 -0.4407843137       3.721449e-02
## 3086     2    0.0     3  3.910262e+00 -0.4970139871      -6.298527e-02
## 3087    -8    1.7    42 -4.369565e+00 -1.3007246377      -1.408297e-01
## 3088     8   -6.0  -107 -2.753416e+00  1.3838509317      -9.965436e-02
```

```
## 3089     15   6.6    21  1.305556e+01  -0.3152777778    -9.107980e-02
## 3090     -5  -2.5    -25 -7.297060e-01   0.7990346643    -1.060792e-02
## 3091     -8  -3.6      8  2.158140e+00   0.1196013289     1.418221e-02
## 3092      0   0.6    -19 -4.019715e-01  -1.2957283680    -5.059442e-02
## 3093      0   1.0     -2  9.577922e-01   0.3246753247    -1.928844e-03
## 3094    -28   6.4      7 -1.764286e+00  -2.2500000000     1.490818e-02
## 3095    -15 -10.8     -5  1.365385e+00   2.1126373626     2.084582e-02
## 3096      2   8.0      2  1.584459e+00   1.7823359073    -2.925357e-02
## 3097     10   9.1     -1  1.710526e+00  -0.9263157895     5.774331e-02
## 3098     -7   4.1      1 -6.382143e+00  -2.0880952381    -7.557094e-02
## 3099    -10  10.2     36 -1.035807e+00   0.9719585850    -3.660024e-02
## 3100     10  -4.0     -8  2.871394e+00   1.2500000000    -1.224261e-02
## 3101     10  -1.0     -1  4.174603e+00   1.3611111111     2.545331e-02
## 3102     -8   9.3     17 -7.965686e-01   0.4289215686    -6.755513e-02
## 3103      0   1.2    -86  8.571886e+00  -1.0554029304     1.779383e-01
## 3104      0  -0.7    -25  7.127371e-01  -3.0853658537     1.150249e-01
## 3105     -2  -3.9      2  1.073989e+00   0.7555301297     7.991281e-02
## 3106     -5  -2.1     56 -4.515334e-01   1.3915662651     2.289166e-02
## 3107    -31   0.0     66 -1.363889e+01   0.5277777778    -1.078427e-01
## 3108      3  -5.1     18  2.604497e+00  -0.4369488536    -1.939209e-02
## 3109      7   1.2    -58  3.247619e+00   1.0761904762     9.203716e-02
## 3110    -13   2.0    -11  3.934407e+00  -1.7698318731    -1.534784e-02
## 3111     -5   7.3     21 -2.106256e+00   0.4988414432    -1.802427e-02
## 3112      5  -1.8    -33  1.765121e+00  -0.1522177419     2.536985e-02
## 3113     -3  -5.8    -53  4.728938e+00  -0.0143467643     4.467240e-02
## 3114      5  -3.1    -56  3.930705e-01  -0.9442453206     1.186653e-01
## 3115     -8  -1.6     56 -2.056764e+00   1.1771883289    -3.319549e-02
## 3116      5  -0.2     55  3.142410e+00   1.9173708920     1.797896e-02
## 3117      2  -2.1     62 -8.301674e-01   0.5147038131     1.129416e-02
## 3118      0   5.2    -35  8.507858e+00   0.3065741226     1.058082e-01
## 3119      7   5.7    -12  2.087133e-01  -1.2120060790    -2.966995e-02
## 3120    -21   3.7     22 -1.260610e+01  -0.1804878049    -8.173756e-02
## 3121      5  -1.3    -42  4.067308e+00   0.1394230769     4.079342e-02
## 3122     -8   2.5    -30  2.936759e+00  -1.0247035573     2.047757e-02
## 3123    -15   4.6     -2 -3.027993e+00   0.7123059867     5.122039e-02
## 3124      0   1.5     34  1.151190e+00   0.5571428571    -2.456706e-02
## 3125     -3  -1.6     15 -9.936243e+00   0.4079696395    -1.189806e-01
## 3126    -23  -0.2     32 -8.829986e+00   0.4515794437    -8.242449e-02
## 3127     10   1.6     20 -1.234213e+00  -0.1915933529     2.289501e-02
## 3128     -8   4.0     72 -7.541942e-02   1.4281976297     5.783128e-03
## 3129    -18   2.6     -7 -3.606800e+00  -0.7096370463     4.809456e-02
## 3130      5  -5.3    -71  8.325290e-01  -0.8484555985     3.274108e-02
## 3131     21  -3.3    -85  9.845049e+00  -1.2152750809     7.603359e-02
## 3132      0   5.2      4 -1.314549e+00  -0.4985623922     4.282630e-03
## 3133     -5  -1.0    -31 -2.668831e+00  -1.8977272727    -6.815494e-03
## 3134     -5   3.6      6 -4.476017e+00  -0.1670834281     2.725394e-02
## 3135      2  -3.6    -83  6.379196e+00   1.0617021277     3.046857e-02
## 3136      5  -6.2    -62  1.583333e+00   0.4166666667     1.546382e-01
## 3137    -25  -1.4    202 -9.680451e+00   1.2406015038    -1.386087e-03
## 3138      8   0.5     42  6.301587e-01  -0.2825396825    -6.345944e-02
## 3139     10   2.1     74  2.877481e+00  -2.6434697378     9.213513e-02
## 3140      3  -3.8      4 -4.336232e+00  -0.3286956522     2.692797e-02
## 3141      5  -5.8    -18 -3.270564e+00   0.3168228469    -2.500549e-02
## 3142      8  -7.1     19 -4.758107e-01  -1.5021265284     1.273508e-02
## 3143      3   6.0     60  7.532328e-01  -1.5646551724    -8.179347e-03
## 3144     -5  -4.7     50 -2.718695e+00   0.2390797903    -1.158533e-02
## 3145      3  -6.3     51 -3.785714e+00   0.0886666667    -9.728247e-02
## 3146     13  -2.8    -58  4.065292e+00  -0.4036655212     3.806973e-02
```

```
## 3147    -15   -3.6    38 -5.942777e-01  1.5398686679   -7.010933e-02
## 3148      7    4.9   -22 -2.282580e+00  0.3391758095   -2.046627e-02
## 3149     -5   -0.1   -15 -1.807805e+00 -0.1936647955    3.747633e-03
## 3150     -8    2.2   103 -5.392256e+00  0.1868686869   -2.408229e-02
## 3151     -8    1.7    71 -6.634409e+00  0.7795698925   -8.717752e-02
## 3152      5   -2.7   -78 -3.625455e+00 -0.7890909091    1.477725e-02
## 3153      3   -2.3   -30  1.787474e+00  2.2636491914    5.922370e-02
## 3154     -8    1.1   -42  3.296351e+00  1.3782576322    9.431232e-02
## 3155     25   -1.7   -89  7.050000e+00 -1.4875000000   -9.928135e-03
## 3156      8    4.5   -84  7.124488e+00 -1.4278317152    4.437684e-02
## 3157     10   -5.6  -273  2.615385e-01  0.7820512821   -2.529451e-02
## 3158     23    0.2   -37  8.748911e+00 -0.4448476052    7.257100e-02
## 3159     15   -7.0   -67  8.102020e+00 -0.5348484848    1.179782e-01
## 3160     -3   -2.2    52  9.998515e-01 -1.0944460944    3.930643e-02
## 3161     -8    4.0   101 -2.887592e+00 -0.2625921376   -2.611425e-02
## 3162      8   -1.7   -95  5.203106e+00  0.2962962963    1.146106e-01
## 3163      2    1.8    78  3.053191e+00 -1.2779255319    2.159987e-02
## 3164     -7   -1.3    59 -3.039216e+00 -0.3921568627   -7.277058e-02
## 3165      4   -5.9   124  2.892308e+00  1.2372469636   -1.671659e-01
## 3166     12   -3.0   -38  5.493292e+00  0.1310629515    6.492030e-02
## 3167     10   -2.3   -60  4.529412e+00  0.8823529412    1.464204e-02
## 3168     10   -1.3    73  1.950154e+00  1.0625000000   -5.968443e-02
## 3169     -7   -4.7    31 -1.102564e-01  0.8623931624   -8.671743e-02
## 3170     15   -4.4   -75  9.721637e+00 -2.0248955723    1.958911e-01
## 3171      8   -0.8   -26 -2.864986e+00  2.8072829132    1.833879e-02
## 3172      2    3.6    71 -1.746711e+00  1.3055098684   -1.132495e-02
## 3173     -7    6.2   -38 -4.676698e+00 -0.8923611111   -2.784776e-02
## 3174     -5   -0.6    42 -1.187765e+01 -0.3388235294    7.838199e-03
## 3175     -8    5.5   -24 -3.351449e+00 -1.7282608696   -2.987556e-02
## 3176      5    8.0   -49  7.040541e+00 -2.7162162162    1.070173e-01
## 3177      0   -1.1    96  4.429330e-01  1.7539261225   -1.033195e-01
## 3178     -5    4.3    73 -5.365954e-01 -0.0925164474   -1.250245e-01
## 3179    -10    0.1   -13  6.868646e-01  1.7104066346    2.054481e-02
## 3180      7   -5.0   -85  7.484211e+00  0.0591093117    1.387390e-01
## 3181    -23   -7.3   -81 -1.224691e+01 -0.0582303188   -4.423655e-02
## 3182     18    1.7   -29  4.575000e+00 -2.5506410256    7.717959e-02
## 3183      5    0.3    47  1.324188e+00  0.5209966405   -4.670980e-03
## 3184     -7   -1.7    29  3.592871e-01 -0.6713570982    4.530879e-02
## 3185     10   -6.6   -98  5.906637e+00  2.4078431373    5.886823e-02
## 3186    -10   -3.6    90 -5.171843e+00  1.8326432022   -1.324208e-01
## 3187      5    4.1   -32  1.009524e+00  0.0714285714   -8.769950e-03
## 3188      0    5.3   -11  1.315862e+00  0.6924137931    2.200922e-02
## 3189      3    5.7   356  5.249198e+00  1.9240641711    6.205453e-02
## 3190      2   -3.5    82  1.342720e+00 -2.3221153846   -9.574220e-03
## 3191     13   -6.0     4  1.672068e+00 -0.5936728395   -6.725466e-02
## 3192     23   -2.5  -341  1.054180e+01  0.5026455026    6.796861e-02
## 3193      5    1.6    25 -8.500244e-01  1.4632388862   -2.925245e-02
## 3194      0    4.4   -70  3.106061e+00 -1.4867827208    1.099196e-01
## 3195     12    4.5   -78 -2.440972e+00 -1.3541666667    5.730016e-02
## 3196      0    0.1    37 -1.017409e+00  0.2311683964   -1.189124e-02
## 3197     10    2.2    58  2.133097e+00  1.3021941926   -7.895982e-02
## 3198     -3    4.7   -14 -7.339172e-02  1.7807308970    2.312381e-02
## 3199     -3   -5.4   -15 -7.573171e+00  0.1300813008    7.917831e-02
## 3200     -3   -0.3    45 -2.744073e+00 -0.8636271530   -2.914550e-02
## 3201    -13   -2.8    45 -7.492632e+00  1.5775438596    2.518195e-02
## 3202      5    4.4    97  8.081522e+00  2.9365942029    8.460253e-03
## 3203    -10    6.0    38 -1.090834e+00 -0.0673962608   -4.869103e-02
## 3204    -28   -9.6   -71 -9.638242e+00  0.5319562147   -9.077785e-02
```

```
## 3205   -16   1.2    11 -1.331883e+00  0.1602435842          1.124534e-02
## 3206    -7   6.2    73 -9.709748e-01 -0.9138371668         -3.310095e-02
## 3207    13  -7.1    25 -9.417620e-01  1.2180210964         -2.303721e-02
## 3208    -3  -6.0  -439 -5.306818e+00 -2.6300505051         -8.220127e-02
## 3209     0   1.4     8 -5.001584e+00  1.8247787611         -4.150196e-02
## 3210    15  -4.5    26  9.852497e-01  0.4089430894         -6.260769e-02
## 3211    28  -2.0   -22  1.364505e+01 -0.5318396226          8.140792e-03
## 3212   -15   3.7    -6 -3.533333e+00  0.0807017544         -7.894649e-02
## 3213     7   9.9   -60 -1.500303e+00 -1.8762886598          3.229347e-02
## 3214     2  -5.7   -22 -3.432494e+00 -0.7495043616         -3.868742e-02
## 3215   -15   1.6   -22 -9.127090e-01  0.0811036789          4.277258e-02
## 3216     3  -0.7   -60  6.351837e+00 -1.9065556437          1.157358e-01
## 3217   -13   1.6    -6 -1.340241e+01 -2.0592105263          1.566563e-02
## 3218    -5   4.4    74 -3.946911e-01  1.8785661126         -3.103565e-02
## 3219     8   1.4   -22 -4.393180e+00 -0.0536875496          7.904492e-02
## 3220    -3  -4.4   -85  3.911225e+00  0.9723258706          8.584114e-02
## 3221     0  -2.6    33 -5.214975e+00  0.8169768258         -1.033833e-01
## 3222     0   3.4    -3 -1.304245e+00 -0.5277122642         -1.220547e-02
## 3223    23  -0.3    10  1.103584e+01 -0.0723015302          8.857864e-02
## 3224     7   2.2   -80  4.914286e+00 -1.4666666667          5.146243e-02
## 3225    13  -0.5    16  9.548839e+00 -0.2730176040          3.701596e-02
## 3226    -8  -3.1   -66 -1.320714e+01 -2.1642857143          7.565584e-02
## 3227    -8   2.9    19  2.121901e+00 -0.6376800189         -4.013998e-02
## 3228     3  -3.7     8  2.646927e+00  1.2491009350         -1.240704e-02
## 3229   -16  -2.1   -18 -8.125961e+00  0.0742487771         -4.286262e-02
## 3230     3   3.7    19  9.055448e+00  0.1538792177          6.523339e-02
## 3231    -3   5.8     2  3.681352e+00 -1.5552447552          9.570212e-03
## 3232    -5   1.0    -2 -4.534027e+00 -0.9553771225          2.126081e-02
## 3233     3  -1.0    -1  6.025028e-01  1.3868762816          2.851885e-02
## 3234   -17   2.4   138 -3.538085e+00 -0.6706266014         -8.473364e-02
## 3235    -5   1.8   -31  6.304817e-01 -0.4967649173         -2.916820e-03
## 3236    10  -1.9     6  5.537522e+00  1.8951756998          4.054430e-02
## 3237     8   0.1    41 -1.329670e+00  1.2042124542          1.331204e-02
## 3238   -13   6.0   -40 -1.946558e+00 -0.6240942029          1.859627e-02
## 3239     5   2.6    25 -1.232733e+00  0.3618618619         -4.632263e-03
## 3240    -5  -6.7    22  2.308333e+00  2.1458333333         -6.407189e-02
## 3241    -8  -0.9    17 -9.060606e+00 -0.7662337662          5.489449e-02
## 3242    10   6.5    -4  1.781008e+00 -0.8972868217         -7.657911e-02
## 3243   -11   1.8    -9 -3.654229e+00 -1.0754560531         -3.341242e-02
## 3244    -7   4.2   -10 -6.269231e+00 -2.2820512821         -6.703798e-02
## 3245   -17  -0.7   -29 -7.342799e-01 -0.9290060852          3.656508e-02
## 3246    10   1.5  -123 -2.706089e+00  0.1614252258         -1.175464e-02
## 3247     5  -0.6   -48 -4.856087e-01 -0.6566107434         -1.831469e-02
## 3248   -17   4.1    80 -6.323362e+00 -1.9586894587         -6.122303e-02
## 3249    -3  -3.4   -40  1.197468e+00  0.1286848073          3.359741e-03
## 3250     5   1.2   -11  3.451765e+00  0.1717647059          4.660715e-02
## 3251    -7   4.6    55 -2.893484e+00  0.7976190476         -2.946393e-02
## 3252    -5  -0.2   -15  1.436735e+00  0.7248979592         -1.004919e-01
## 3253    -3   6.0   -63  8.385167e+00 -0.7631578947          3.357518e-02
## 3254     7  -0.7   -47  4.145161e-01 -0.9825268817          6.928888e-02
## 3255    17  -5.4   -65  4.079043e+00 -0.0014256297          2.641416e-02
## 3256     0   4.5   -28 -2.734343e+00 -0.2434343434          1.736753e-02
## 3257    -2  -3.2   -82 -7.946128e-01 -1.7575757576          2.928904e-02
## 3258     5   8.3    27 -2.053441e+00 -1.2178764388          1.957858e-03
## 3259    10  -6.7    -2  6.029915e+00 -0.1965811966          1.848767e-02
## 3260     2   4.3   -63  4.934534e-01 -0.7708674304         -3.906156e-02
## 3261     8   3.1    34  1.024718e+01  0.9903381643         -6.459361e-02
## 3262   -10  -6.4    20 -2.790164e-01  0.5721311475         -5.274606e-02
```

```
## 3263     8    3.6  -10   2.040000e+00  -0.4100000000     7.258001e-02
## 3264    -7    2.1   62  -3.646053e+00   1.0052631579    -8.163653e-02
## 3265     0    4.2  -20  -4.976190e+00  -1.5438311688     1.142190e-03
## 3266   -10   -2.3   19  -2.487567e+00   0.7701612903    -7.410177e-02
## 3267    -5   -6.1  -19  -4.275197e-01   0.7211221122     5.531036e-02
## 3268     8    1.2 -162   1.253165e+00  -0.3405372028     1.121398e-02
## 3269    -5    0.1  -24   1.779584e-01  -0.9828364950    -3.829391e-02
## 3270     7   -2.9  -91   5.932808e+00   2.4749768304     7.690219e-02
## 3271     5   -3.5  104  -4.645641e+00  -0.7492307692    -7.494550e-02
## 3272     5   -6.4   39  -2.351852e+00   0.7777777778    -2.235099e-02
## 3273   -10   -4.6  -73  -1.714286e+00  -0.4693877551     6.273470e-02
## 3274   -13    4.8  -34  -1.925647e+00   0.6491228070     3.781079e-02
## 3275    20   -9.0  -37   5.034392e+00  -0.9444444444     2.036892e-01
## 3276    -6    3.2  -21  -2.902083e+00   0.9947916667    -9.702453e-02
## 3277    -5   11.0  -46  -3.170543e+00  -1.3062015504     4.348800e-02
## 3278     0   -0.3   59   6.400966e-01   0.9085576259     5.275720e-02
## 3279     5   -2.2   20   4.827912e+00  -0.1770920211    -6.600492e-02
## 3280    -2   -2.4   53  -2.308300e+00  -0.8300395257     2.889839e-02
## 3281     2    6.1   45   1.708709e+00  -0.9729729730     3.247572e-02
## 3282   -16    7.1   64   2.134884e+00  -3.2441860465     4.142082e-02
## 3283    13   -2.6  -43   1.443554e+00  -1.7041301627     4.169828e-02
## 3284    -6   -1.1  -93   2.022167e+00  -1.4211822660     1.655498e-01
## 3285    -3   -6.9  -84   2.975000e+00  -0.5000000000     5.625134e-03
## 3286    -5    2.4  -69   4.664452e+00  -0.3715393134    -6.733866e-02
## 3287    -5    5.6   62  -1.980981e+00  -2.7097097097    -4.939028e-02
## 3288    -7   -5.8  -12  -4.981013e+00   0.4678481013    -9.171452e-03
## 3289    -3    1.4   56  -1.019022e+00   0.8451086957     2.206034e-02
## 3290     7   -0.7  -79   5.551701e+00  -1.1605442177     1.521233e-01
## 3291   -12    1.0  -21  -1.877454e+00  -2.4534040672     6.129412e-02
## 3292    -2    1.7   23   6.010638e-01   0.5106382979     1.681110e-03
## 3293     3   -0.4  -29   3.787136e+00   1.2319039451     3.866912e-03
## 3294     5    6.2  -20   1.004359e+00   0.0595757047    -2.126405e-02
## 3295     3   -1.0 -108   7.521441e-01   0.9545454545    -5.012499e-02
## 3296    -5    5.7    8  -3.385294e+00  -0.5078431373    -1.782583e-02
## 3297    -5   -1.2   43  -4.138293e+00  -2.2629261684     3.249790e-03
## 3298     5    0.6  -46   2.008088e+00   0.8285217035     6.625600e-02
## 3299    -2   -4.0   72  -2.701835e+00   1.2860936746    -4.565547e-02
## 3300    -5   -4.3   43  -5.500603e+00   0.9898944193     1.358554e-02
## 3301     5   -2.3   86   1.657930e+00   0.5483870968     1.163717e-02
## 3302    -2    3.1   19  -3.279040e+00   0.6047979798    -9.341367e-03
## 3303     5   -4.9  -71   3.886640e-01   0.0991902834    -3.109574e-02
## 3304     0    4.1  -39  -1.462491e+00  -0.3792203418    -3.563100e-03
## 3305    -8    5.1   41  -4.628801e+00  -1.4385062612    -2.466188e-02
## 3306     8   -3.1  -26   1.911172e+00  -0.9915293040     8.892959e-03
## 3307     7   -2.4   -8   2.900774e+00  -0.0135396518     5.451398e-02
## 3308    -2   -5.5   37  -3.734615e+00   1.0084615385    -2.167721e-02
## 3309   -10   -2.9   46  -5.201465e+00   0.0930402930    -2.667471e-02
## 3310    10   -0.6  -45   8.900126e-01  -0.2464443742     3.405628e-02
## 3311    -7   -2.2   51  -5.035135e+00   1.3175675676    -6.108671e-02
## 3312    -3    1.0  -43  -1.062648e+00  -0.5457811268     2.806018e-02
## 3313     0   -6.1   63  -5.195324e+00   1.1749622926    -8.581135e-02
## 3314    -7    1.7  116  -7.728175e-01   2.0158730159    -5.397786e-02
## 3315     5   -7.9  -48   4.343337e+00   1.2560024010     4.728918e-02
## 3316     2    0.6  -12   3.017712e+00   1.3615978896    -6.212192e-03
## 3317     7   -1.3   20  -1.995046e+00  -0.2761609907    -1.089263e-02
## 3318    -5   -1.6  -27   2.794118e-02  -1.2700980392     1.057258e-02
## 3319   -13    4.3   11  -1.634639e+00   0.3318154220    -1.936786e-02
## 3320    -5  -10.4   72  -3.029124e+00   2.0554227342    -8.016360e-02
```

75

```
## 3321    2   1.5    -6 -2.246429e+00 -0.3239010989       -6.132477e-02
## 3322    0   6.3     7 -4.151515e+00  1.7532467532       -5.074703e-02
## 3323    2   3.5    10  2.858151e+00 -1.2903294822        2.399386e-02
## 3324   -7   5.0    76 -7.751856e+00  0.2896039604       -9.076607e-02
## 3325    0   6.7   -42  2.397243e+00  0.0250626566       -1.905499e-02
## 3326    5   6.2  -102  6.843291e+00 -1.9265822785        6.368114e-02
## 3327   -5  -6.2    61 -4.337232e-01 -1.2573099415       -1.946703e-02
## 3328   -2  -4.2    56 -5.275507e-01  0.7547102737        2.105157e-02
## 3329   -3   1.7   193 -2.684904e-01 -0.6028368794        4.770625e-02
## 3330   -2   5.7   -86  4.865079e+00  1.1783824641        3.296917e-02
## 3331    8  -1.8    92  4.704044e+00 -0.4053308824       -7.540309e-02
## 3332    0   3.1    26 -3.837334e+00  0.2513575195       -6.589799e-03
## 3333   -3   7.8   -42  5.894797e-01 -1.2528587764        6.936643e-02
## 3334  -15   3.7   -16  2.491084e+00 -0.7739759036        9.802930e-02
## 3335    2   0.8    -8 -4.943434e+00 -0.8515151515       -1.307680e-02
## 3336  -16   3.6   -13 -4.269068e+00 -0.8548728814       -4.107868e-02
## 3337   -7  -1.7   -24 -1.176809e+00  0.7521974307        8.332128e-02
## 3338   -5  -0.7   -78 -5.862500e+00  2.5250000000       -3.654341e-02
## 3339   -7   1.9    50 -7.036341e-01  0.4050751880       -2.425345e-02
## 3340  -11   4.6   -28 -1.014789e+01 -0.9440613027       -4.205713e-02
## 3341    7  -6.2   -52  8.151331e-01  0.7308729356        1.239391e-02
## 3342    3  -5.0    13 -2.319013e+00 -2.1405210643       -1.576373e-02
## 3343   18  -1.9   -42  1.188386e+00 -0.3842044135       -8.027088e-03
## 3344   -2   6.8   -41 -5.261438e-02 -1.5049019608        4.296994e-02
## 3345  -15   0.1    72 -4.759079e+00 -1.1473145780       -1.196216e-01
## 3346   -3  -4.6    -4 -7.120408e+00 -0.0099489796        3.284800e-02
## 3347    0   2.8  -213 -2.325581e-02 -0.4349139233        1.449290e-02
## 3348    5   0.8    -9  7.452793e+00  0.7620078334        7.749833e-02
## 3349   13  -5.7   132  3.137845e+00  0.3408521303       -1.741557e-01
## 3350  -28   5.5    24 -6.202381e+00  0.5140056022        5.403152e-03
## 3351    3  -3.0   -29  4.277381e+00 -0.3988095238       -1.223867e-02
## 3352   20  -1.3   -14  3.978395e+00 -2.1203703704        1.160838e-01
## 3353  -12   4.1    34 -5.534766e+00  0.5160556258        3.323424e-02
## 3354    5  -5.2   -77  8.172527e+00  1.1005494505        1.010972e-01
## 3355    3  -1.5    51  5.285516e-01 -0.1253655533       -4.577148e-02
## 3356    8  -1.8   -13  1.932147e+00 -2.2249721913       -1.415499e-02
## 3357   -5  10.9   -50  3.113456e+00 -0.4357798165        5.218690e-03
## 3358  -10  -3.3    11 -6.951740e+00  0.7396184063       -1.265987e-02
## 3359   10   3.3    19  8.605052e-01  0.8386911596       -5.563860e-02
## 3360    5   2.3     6  3.198597e+00 -0.0812736104       -4.905958e-02
## 3361  -10   5.4    60 -4.770923e+00  1.0326430831       -1.413708e-02
## 3362   -8   0.4    -3  3.177524e+00  0.4339047619        5.043582e-02
## 3363    3   4.5     6  5.460668e+00  0.5330241187        1.521960e-02
## 3364   -5   9.5     1  4.167849e+00 -0.6975609756       -5.207580e-02
## 3365   15  -5.2    -1  4.924316e+00  0.3677938808       -4.460208e-02
## 3366    2  -3.0    15 -3.554269e-01  0.4427284427        4.675984e-02
## 3367    5  -1.0     2  4.421016e+00  0.8350419385       -2.350446e-02
## 3368   -8  -1.7    31 -6.861244e-01 -2.3550239234        4.438708e-02
## 3369  -10   6.6     6 -5.866092e+00 -0.1942985746       -8.146307e-03
## 3370   12   3.7   -16  9.878049e-01 -2.8773096822        8.968177e-02
## 3371   -8  -2.8   -15 -5.292524e+00 -1.1181553398       -3.250536e-02
## 3372   12  -3.0    -2  7.528736e-01 -0.7394636015       -8.417139e-02
## 3373   -6  10.6     2 -5.307753e+00  0.6760083814       -1.588537e-02
## 3374    0   2.4    35 -1.731549e+00 -1.2292957746       -3.385273e-02
## 3375   -8  -1.0    59 -8.351257e+00  1.6255902513       -1.016156e-01
## 3376    2   3.9    37  1.428571e+00 -1.4357142857        5.039134e-02
## 3377  -10  -6.4    19 -4.133158e+00  0.0457614404        4.743812e-02
## 3378   10  -0.7   -55  3.647024e+00 -0.0619047619       -1.640638e-03
```

```
## 3379    -10   -6.5    -40   3.539655e+00  -2.2985074627       2.211167e-02
## 3380    -10   -2.2     -5  -5.287941e+00   0.5642754504      -5.828659e-03
## 3381     -5    2.9    -16   3.583041e+00   1.6350877193      -1.678126e-03
## 3382     12    2.8     -7   4.577658e+00  -0.4641577061      -1.515827e-02
## 3383     -8    7.1     -7   3.950532e-01   1.4392048081      -1.131959e-02
## 3384     -8    1.9    -79  -4.702834e+00   0.3085020243       6.503785e-02
## 3385    -10   -6.2     63  -1.993478e+00   1.5450592885      -5.012593e-02
## 3386      2    1.0      8  -3.834471e+00  -0.2347021400      -9.140606e-02
## 3387      3   -5.1     -6   1.760462e-01  -0.9350649351      -2.876555e-02
## 3388      3    3.0     51   5.304810e-01   2.4207214765      -1.040382e-01
## 3389     10   -1.7    -34   6.031746e-01  -1.5209523810       2.032304e-02
## 3390     10    1.6    -10   9.253412e+00   0.5753278031      -3.357095e-03
## 3391     11   -6.8    -19   3.358071e+00  -0.6661417323      -2.457621e-03
## 3392    -21    8.8    -26  -1.045369e+01  -0.4034730914      -1.531689e-02
## 3393      5   -3.7    -45   3.077919e+00   2.8999529190       7.171770e-02
## 3394      0   -8.7     57  -6.983501e+00   2.0160210426      -1.236579e-01
## 3395     -3    3.3     35  -3.876263e+00  -0.0669191919      -2.856472e-02
## 3396     -5   10.9    -40   3.023367e+00  -0.4862049550      -1.983950e-05
## 3397     -8   -0.8    -59   5.085500e+00   0.4419041654      -6.124779e-02
## 3398     -5    6.5    -28   1.687812e+00   1.0699300699      -6.637625e-03
## 3399    -10   -4.7     39  -7.931046e+00   0.7343053173      -6.739801e-02
## 3400     -8    4.1     44  -1.217147e+00   0.6153846154       4.003690e-02
## 3401     -5   -4.4    -45   3.333333e-02   1.7611111111       1.030005e-01
## 3402      0   -4.3     25  -3.510417e+00   1.1711309524      -1.111214e-01
## 3403      5    2.7     21   3.499010e-01   0.3480528053      -1.354499e-02
## 3404      8   -4.0    -21  -4.254596e+00  -1.3651960784      -5.208704e-02
## 3405     -8   -2.1    -64   7.806219e-01   0.5762423758       1.000432e-01
## 3406      5    3.0      4   4.578144e+00  -0.5823052778       1.077546e-01
## 3407    -13    4.0    -31   2.500000e+00   0.4560023310      -5.549268e-02
## 3408     10    2.1      1   1.488354e+00  -1.8656832298       1.181812e-02
## 3409     -5    2.9   -112  -8.208149e-01   0.1512027491       7.497087e-02
## 3410     -7    2.1     15  -1.549388e+00   0.1341087320       4.667200e-02
## 3411     -2    2.0      5   7.611460e+00   1.6033695031       3.035244e-02
## 3412    -13    0.4    -10  -9.272715e+00   0.3343088071      -3.526385e-02
## 3413      2    1.2    -29   5.804511e+00  -0.3187969925      -7.184773e-03
## 3414      2    0.6   -120   1.959938e+00  -0.0077041602       1.185954e-01
## 3415     13    0.5     23   8.284449e+00   1.3847537355      -2.588848e-03
## 3416     12    2.7    -43   5.352362e+00  -0.8711967546       3.172219e-02
## 3417     15   -5.1     -1   4.647619e+00   0.2559523810      -3.785227e-02
## 3418     -8   -6.9   -206  -4.429511e+00  -3.2706766917      -8.404838e-02
## 3419     -3    5.1    -31   3.213663e+00   0.8626453488      -2.446048e-02
## 3420    -15    2.9     37  -6.171940e+00   1.4391515582      -6.073229e-02
## 3421     -8    3.1    -23   1.321078e+00   0.9828431373       2.763751e-02
## 3422     -8   -3.8      4   2.142857e+00  -1.0768398268      -7.566387e-03
## 3423      0   -5.5    -35   1.060779e+00  -0.7884954552      -3.812713e-02
## 3424     -5   -1.9      3   2.479412e+00  -2.5000000000       3.900109e-02
## 3425     -5    0.6     62   4.654945e-01   0.6726739927       1.207711e-02
## 3426     13   -5.5    -18   6.212862e+00  -0.4423913043       6.814415e-02
## 3427      0    4.0    -61   1.970890e+00  -1.2254566210      -3.431755e-02
## 3428     -5   -0.7    -18   2.633916e+00  -0.3198343304       7.160240e-02
## 3429      0    5.6    -79  -5.018117e+00  -2.6755271755       8.281554e-04
## 3430      0   -3.5     55  -3.925862e+00  -0.3034482759      -7.023929e-02
## 3431     13    2.4     14   3.679891e+00   2.4322845417       4.070010e-02
## 3432      5    1.5     -7   3.110991e+00  -1.6246408046      -9.630817e-03
## 3433     -7   -1.0    -15  -4.792593e+00  -1.9281481481      -6.137803e-02
## 3434     17    1.1     -3   3.566667e+00   0.8833333333      -2.425552e-02
## 3435      0   -2.7    -46   3.250000e+00   0.6538461538       7.361560e-02
## 3436      0   -6.2     34  -2.453100e+00  -1.1741239892       4.480260e-02
```

```
## 3437     0   -1.0   -17  2.159091e-01   0.0261363636        3.315608e-02
## 3438    15   -8.1  -259  2.452273e+00  -2.1545454545       -6.520932e-02
## 3439    10   -3.9    88  1.006266e+00   0.8079083838       -6.908759e-02
## 3440    -2  -11.7    42  3.849183e+00   1.6783329496       -1.760222e-02
## 3441    -3   -3.6   -45 -7.330329e-01  -0.6251325557       -3.795002e-02
## 3442    11   -6.7   -35  6.392794e+00  -0.3449231544        6.264684e-02
## 3443    15    0.4     1  9.786125e+00   0.7354421280       -9.329628e-03
## 3444     8    1.7   116 -7.549686e-01   0.8777358491        2.470483e-02
## 3445    -2   -3.7   -54  2.846251e+00   0.2998165558        8.913586e-02
## 3446    -5    4.6   -28 -1.325175e+00   1.0419580420        4.967044e-02
## 3447    -3    3.0    26 -4.489179e+00   0.3428943937        2.154488e-04
## 3448   -10   -2.1    62 -3.372380e+00   0.6208586883       -6.332240e-02
## 3449    13   -8.8   -54  3.159129e+00  -0.8476540418        6.350307e-02
## 3450    -5   -1.5   -26 -1.619048e-01  -1.3015873016       -2.544995e-03
## 3451   -10   -0.3   -21 -1.946655e+00   1.1934264412       -9.926703e-03
## 3452   -15   -0.9   -60 -2.164123e+00  -0.0962516734       -6.193520e-03
## 3453    -8   -0.4    41 -8.003636e+00   1.3445454545       -1.008467e-01
## 3454   -10    3.4   -84 -1.457602e+00  -1.3474658869        2.113017e-02
## 3455    -5   -4.8    36 -1.521995e+00   1.2916099773        1.823069e-02
## 3456    15   -2.8   -21  5.739316e+00  -0.1267094017       -3.554992e-02
## 3457     2   -3.0   -24  3.377462e+00  -0.6149699357        7.896658e-03
## 3458    -3    4.3   -19 -5.156318e+00   1.3425925926       -8.184171e-02
## 3459     5    1.0  -117  5.592120e-01  -1.2255117764        1.792872e-02
## 3460     0   -1.6     4 -1.744594e+00  -1.0331442751       -9.559677e-03
## 3461    13   -1.7     2  1.955706e+00   0.3620513626        5.146515e-03
## 3462    -8    5.1    63 -4.808237e+00  -1.4740725967       -1.707993e-02
## 3463     0    3.5   -74  1.535839e+00  -0.2560975610        3.721136e-02
## 3464     5   -5.7   -22  3.625192e+00   0.6103430620        5.942245e-04
## 3465     6    3.1    27 -1.785441e+00   0.4674329502        3.084611e-02
## 3466     3   -7.5    19 -3.018939e+00   0.9015151515        4.775429e-02
## 3467    -2   -6.3    21 -1.606600e+00  -0.3247863248       -2.243937e-02
## 3468    -2   -5.0    -3 -1.066102e+00   2.5187235428       -2.358414e-02
## 3469    10   -3.6    31  2.102454e+00  -0.5290572536       -9.942591e-03
## 3470     0   -2.9   -18 -1.816140e+00  -3.0785964912        1.845480e-02
## 3471     0    2.7   -57 -1.177918e+00  -0.5823798627        7.350197e-02
## 3472    13    0.9   -60  5.785714e-01  -2.5357142857       -2.478269e-02
## 3473     5   -2.7   -83 -1.759569e+00  -0.8181818182       -3.258565e-02
## 3474    13   -2.1    14 -3.912644e+00   1.9724137931       -2.054324e-02
## 3475     2    1.5    29  7.197423e-01  -1.0846755637       -1.234898e-01
## 3476    -3    3.5    -8  1.187075e+00  -0.7086167800        4.286874e-02
## 3477     5    0.7    19 -2.584753e+00   0.3232852774       -8.105921e-02
## 3478    -2    1.4   244  6.406162e+00   2.4355742297        3.910772e-02
## 3479     5   -3.6   -81  5.876216e+00  -0.1079534618        3.193688e-02
## 3480    -5   -1.8   -17 -5.796009e+00  -0.0923872875       -6.755706e-02
## 3481     3   -2.4    88 -2.446267e+00   0.0762920427       -8.542887e-02
## 3482     3   -3.7   -53  7.011732e+00   0.3666732949        7.626735e-02
## 3483    -7   -6.8    -6 -3.618646e+00   2.9165329053       -6.102664e-02
## 3484    10    7.5    19  1.359524e+00   1.1952380952        6.136750e-03
## 3485   -11    8.7  -156 -4.540361e+00  -0.3380816714        2.903384e-02
## 3486    12   -3.4   -57  4.751670e+00  -0.1619611415        1.127494e-02
## 3487    13    2.9    -8  3.548872e+00   1.3909774436        1.262671e-01
## 3488   -20    0.9    27 -2.993895e+00   0.3479853480       -6.663491e-05
## 3489    -2   -0.5   -22 -2.250598e+00  -0.8550932568       -9.167296e-03
## 3490    -5    2.1   -43  1.585313e+00  -1.5798525799        4.049929e-02
## 3491    18   -3.6   -62  3.535390e+00   0.9924379915        6.687683e-02
## 3492    -5    0.6    65  4.586902e-01   0.6961867919        1.525366e-02
## 3493    13   -4.5   -48  1.178272e+00  -0.3330610578        3.507603e-02
## 3494     0    0.5   -12 -3.712554e+00   0.1610389610        4.886307e-02
```

```
## 3495    3   -4.7   -41  4.005556e+00   0.7537037037          6.294284e-02
## 3496   18   -3.4    87  4.216667e+00  -0.1154761905          4.530150e-02
## 3497    3    1.4    14 -3.886982e+00  -2.3703957904         -1.942073e-02
## 3498  -20    5.0    -7 -4.564829e+00  -0.0516304348         -1.063566e-02
## 3499  -13   -4.0   -72  1.240367e+00  -0.6908796546          6.996912e-03
## 3500   10  -10.5  -258  1.021739e-01  -1.9043478261          2.153983e-02
## 3501    0    6.0   -53  3.955746e-01   0.0072251072          3.900174e-02
## 3502    8   -2.3   173 -2.115015e+00   0.5043633923         -8.121023e-02
## 3503   -8    4.6    30 -2.630664e+00  -0.2215102975         -6.287843e-02
## 3504    5    2.4    17  1.943945e+00   0.1232152300         -5.498033e-02
## 3505   10   -3.5     6 -2.116422e+00  -0.2319648094         -1.937809e-03
## 3506    8    2.9    40 -3.743520e+00  -1.0555125725         -3.843756e-03
## 3507   15   -6.3   -11  3.049403e+00  -0.1684350133          5.954163e-02
## 3508   -2    1.2    23 -4.023342e+00   0.3566748567          5.871583e-02
## 3509   18   -4.3     9  7.081807e-01   0.3067002442          1.998173e-02
## 3510   -3    6.8    46  2.334509e+00  -1.0827456126         -7.993556e-02
## 3511  -13    1.6   -19 -2.143811e+00  -2.2452470350          4.032076e-02
## 3512   10    4.0   -32  2.822029e+00   1.7773913043         -2.205246e-02
## 3513    2    1.3    36  6.984286e+00   0.2357142857          8.317393e-02
## 3514  -10    0.6    42 -1.018644e+00   0.2134180791         -3.323873e-02
## 3515    5   -3.6   -24  2.292929e+00  -0.3766699251         -4.152391e-02
## 3516  -18   -4.3    25 -4.774537e+00   1.1040599133         -8.519646e-03
## 3517    2    1.4    30 -5.292180e+00  -0.1028552888         -3.106721e-03
## 3518   -3   -0.8    -1 -1.129861e+01  -0.8414351852         -3.981459e-02
## 3519   -7   -1.8   -50 -2.201569e+00   1.8909803922         -4.258460e-02
## 3520    0    1.6    70  8.928210e-01  -1.7118301314          5.028081e-02
## 3521   -3   -1.7     5  8.268268e-01   0.1736736737         -1.458199e-02
## 3522    3   -2.0   -51  3.709821e+00  -1.2678571429          6.820084e-02
## 3523   10    1.6   -12  9.241270e+00   0.8571428571         -1.790493e-02
## 3524    0   -4.4  -197  4.283333e+00  -2.5452380952          5.940068e-02
## 3525  -10   -2.6   -18  5.226384e+00   0.7646691635          2.215432e-02
## 3526   -3    9.0   -20 -1.232625e-01   1.3518227118          2.375188e-03
## 3527   -2   -2.2     7  6.455997e+00  -0.1985006519          3.084492e-02
## 3528    3   -6.4   -28  3.201579e+00   0.4700000000          1.084404e-02
## 3529   10    6.4   -18  2.931459e-01  -0.5200695551          5.368147e-02
## 3530   -3    0.0   -50  5.360787e+00   0.1635194857          6.763484e-02
## 3531   18   -5.8   -46  4.548052e+00   0.5216450216         -1.227677e-02
## 3532   10    0.7     9 -2.407080e+00  -0.3571612682          2.296964e-03
## 3533   13   -5.7   -25  2.124008e+00  -1.2658730159          2.179070e-02
## 3534    3    1.2     2  2.750000e+00  -1.2619047619         -6.239152e-02
## 3535    0    0.3    16  1.351515e+00   0.5919191919         -6.509333e-02
## 3536   -8   -0.9   -64 -1.995671e+00   0.3479437229         -5.046656e-02
## 3537   -5    5.6   165 -3.312500e+00   0.4758522727          1.221447e-02
## 3538    2    5.0    63  6.084656e-01   2.2947089947         -1.016654e-01
## 3539   12    5.8    18  1.950344e+00  -0.8764604811          2.077358e-04
## 3540    7    3.1    -3 -3.324581e-01  -2.4718679670          5.265464e-02
## 3541   -2   -8.0    53 -1.514566e+00  -1.3891980360          2.428969e-02
## 3542    5    3.2    25  4.521739e-02  -1.2521739130         -1.124846e-01
## 3543    3   -3.8   -10  8.480109e+00  -1.0729711298          8.414376e-02
## 3544    8   -2.5   -14  3.825770e+00   0.3321195145          8.683130e-02
## 3545    0    0.0   -62  4.337121e+00  -0.8068181818          1.021394e-01
## 3546   13   -0.6   -36  7.002120e+00   1.0129835718          6.132539e-02
## 3547    3    4.6     9  7.109050e+00   0.0501131222         -2.500808e-02
## 3548    5    2.3    16  1.848684e+00   0.2029605263         -5.990419e-02
## 3549   -7    2.0   -21 -8.746154e-01  -0.3861538462          9.110071e-02
## 3550   10   -2.5   108  2.673026e-01   0.7528351881          1.262961e-02
## 3551    5   -1.9   -58 -2.993627e+00   0.1078431373          6.568604e-02
## 3552   -3   -0.9   -31  3.532956e-01  -0.8203392352          5.552617e-02
```

```
## 3553     -5  -2.0  -81 -1.247609e+00  1.3633879781      -1.885173e-02
## 3554      2  -4.2  -17  1.251400e-01  0.7785554311       1.873703e-02
## 3555     -3   1.1  -11 -4.527229e+00 -0.2892277423      -8.937406e-03
## 3556      3  -0.4  -24  5.203984e+00  1.4423076923       3.578828e-02
## 3557     -7  -1.5   -3  2.562848e+00  0.5788778878       3.936151e-02
## 3558      0   0.9  102  2.539177e+00  1.0486583184       2.604593e-02
## 3559     10   2.6  -31  1.790087e+00 -0.2592418178       8.858245e-02
## 3560     10  -2.0   36 -7.051170e-01  0.1446637427      -8.060435e-02
## 3561      2   3.7  -15  1.425812e+00 -1.0330699444       1.790290e-02
## 3562     -8   2.4   20 -5.182477e+00 -0.1205533597      -8.654788e-02
## 3563      7   8.4  -28  5.299471e+00 -1.7449735450       9.988785e-02
## 3564     -5   2.0    7 -7.298387e-01  0.0793010753       2.739939e-02
## 3565     -5   2.4   38  3.437515e+00  0.1235447850      -6.853998e-02
## 3566      5   1.3   18  3.975147e+00 -0.3319460134      -3.395877e-02
## 3567     -5  -2.4    3 -4.840934e+00  1.6205042640      -6.912181e-02
## 3568    -15  -4.0  -39 -3.690692e+00  1.0154569892       5.833251e-03
## 3569      0  -0.1  -44  2.097140e+00  0.4363446111       5.280445e-02
## 3570     -7  -1.5  -35  3.376720e+00 -0.0228269085       2.059429e-03
## 3571    -12   2.7  -10 -1.627539e+00  0.6131844763       3.123651e-02
## 3572     -2  -1.2  -38  6.249286e+00  0.2703571429       7.256280e-02
## 3573      0  -4.5  -19 -7.878660e-02 -2.5836317674       5.616746e-02
## 3574      0   1.9   56 -6.632917e+00  1.4826479264      -1.149254e-01
## 3575    -18   0.0  -17 -5.512440e+00  0.0529505582      -9.500876e-04
## 3576      3  -3.7    4  2.955115e+00  1.1460997442      -1.912645e-02
## 3577    -15  -0.2  -90 -7.662069e+00 -2.1379310345       2.696707e-02
## 3578     -5   6.6  -12 -5.157471e+00 -0.8628880231       8.567122e-02
## 3579    -31   3.0  -20 -1.297757e+01 -0.3866519581       4.895900e-03
## 3580      7  -2.0   44  8.173160e+00  2.7844155844       7.559593e-02
## 3581     -5  -1.3   13  2.205082e+00 -0.2120516743       5.165087e-02
## 3582     -2   5.1   33 -2.150325e+00 -0.4639610390       4.633060e-02
## 3583     26  -3.6  -43  1.296802e+01  0.9089285714       1.154882e-01
## 3584     23  -0.1    9  9.681846e+00  0.0595411977       2.635854e-03
## 3585    -18   3.6   -4 -4.559583e+00  0.9622641509      -9.379278e-03
## 3586      2   1.3   11 -3.252446e+00 -0.2766355140      -3.622990e-04
## 3587     -5   5.0   11  2.970256e+00 -0.1645362176       5.676025e-02
## 3588     -2   1.9  -13  5.110870e+00  0.1674737018       3.205286e-02
## 3589      3   2.3  -25  6.409296e+00 -0.1783324290       6.912244e-02
## 3590      5  -4.9   -4 -1.980418e-01 -0.9548286604       2.060546e-02
## 3591      2   5.4   -9 -3.729128e-01 -1.3390538033       3.004675e-02
## 3592     -2  -0.8  -20  2.694242e+00  0.3383838384      -1.856035e-02
## 3593      0   2.6  -30  5.318613e+00 -0.7339416058       9.379083e-02
## 3594    -18  -0.1  -13 -4.626433e+00 -0.0571483180       4.444387e-02
## 3595      0   4.9  -16  2.107773e+00 -1.0487483531       4.035955e-02
## 3596     10  -3.0  -20 -5.602725e+00 -0.6789396171      -3.229480e-02
## 3597     -2  -5.6   45 -2.703618e+00 -0.9123376623      -8.310540e-02
## 3598      2   6.9  -81  4.049560e+00 -1.2415667466       1.279517e-01
## 3599    -11   4.1   -3  4.076923e-01 -0.7456043956       7.913268e-02
## 3600     -8   1.8   16 -1.937214e+00  2.1820610687       2.223380e-02
## 3601    -16   1.2    6 -1.010367e+00  0.0514354067       1.836931e-02
## 3602      6   1.7    4 -6.413347e-01 -0.1824395700      -2.512637e-02
## 3603     10  -4.8   -5  1.670386e+00 -1.8304407713       2.173991e-02
## 3604     10  -4.7    3  4.346745e+00  0.0532968190      -8.717421e-02
## 3605      2  -1.2  -22  3.889493e+00 -0.5030797101      -5.367007e-02
## 3606      3  -0.7  -39  6.043173e+00 -1.8384649710       9.948998e-02
## 3607      2  -4.7  -12 -4.377124e+00  0.6716047526      -5.536272e-02
## 3608    -11   9.0   25 -7.071878e+00  1.1772237197      -8.859799e-02
## 3609      2   0.8  -82 -4.315244e+00 -1.6677888500      -5.043226e-02
## 3610      2  -0.3 -107  3.000000e-01 -1.3841463415       1.593316e-02
```

```
## 3611     7    0.6   -87  4.102535e+00  0.5304476629       2.769574e-02
## 3612    18   -2.4   -31  1.362704e+01  0.9537205082       8.094299e-02
## 3613     0   -6.9    35 -1.312792e+00  1.1974487963      -2.456241e-02
## 3614    -2   -2.9    50  2.433000e+00 -0.1155846858      -5.626326e-02
## 3615    -6    7.3     2  3.613333e+00  0.9733333333       2.178840e-01
## 3616     8  -10.9   -10 -5.186275e-01 -1.0058823529       4.360369e-02
## 3617     3   -8.9    58  1.743734e+00 -0.3687979540      -9.009931e-02
## 3618    -2   -4.9   -28 -1.192865e+00 -0.3862876254      -4.045873e-02
## 3619    -5   -5.0   -59  5.405727e+00  0.1872586873      -1.921386e-02
## 3620     2   -2.9    30  1.489570e+00  0.3044669195       2.503501e-02
## 3621   -13    2.6   -60  1.781102e+00 -2.2539819199      -3.842559e-03
## 3622     3    4.0    50  8.024000e+00  0.7386666667       1.395630e-02
## 3623     5    4.5    19  4.850472e+00 -0.2675111773       2.372304e-02
## 3624     0    2.6   -49  5.258662e-01  0.6359753204       2.410340e-02
## 3625     5    5.3   100 -3.474005e+00  0.0915461121       8.433385e-03
## 3626     3   -3.7    -8 -3.173162e+00 -1.2801470588      -1.111686e-02
## 3627     7   -1.9   -40  5.369725e-01 -0.5125822687       2.482083e-02
## 3628     5   -6.2   -31 -2.918129e-01  0.6918128655       4.789679e-02
## 3629    -5   -9.9   -13  4.221341e+00  0.1104668904      -1.830342e-02
## 3630     5   -3.0    43 -1.148133e+00 -1.0421379241       4.001943e-02
## 3631     3   -5.5    38 -1.842318e+00  0.0381586917      -1.195852e-02
## 3632     3    3.9    -3 -3.134278e+00 -0.4586707152      -1.844503e-02
## 3633   -10   -1.5    11  3.721467e-01  0.5684103261      -4.134414e-02
## 3634    -7    2.7    41  2.616480e+00  1.0276621930      -6.836203e-03
## 3635    -5   -0.1   131  9.895833e-01  0.6145833333      -8.351197e-02
## 3636    15    6.9    -6  1.189836e+01  0.2695427092       1.050717e-01
## 3637    -7    6.2   -26 -5.073086e+00 -0.9470755014      -4.183177e-02
## 3638     0   -0.6   -18 -5.250000e-01 -1.4166666667      -3.542513e-02
## 3639   -15    2.4    52 -7.061404e+00 -1.0087719298      -5.839121e-02
## 3640    -2    0.3   233  4.575000e+00  1.1428571429       3.888407e-02
## 3641     3   -2.1   -35  3.580660e-01  1.6457219251      -3.381062e-02
## 3642    13   -1.1     6  3.083019e+00  0.9358490566      -4.497450e-02
## 3643    -3   -0.6   -48  1.175203e+00 -1.4483739837      -3.555401e-02
## 3644     0   -6.2     3  5.862069e+00  1.6321839080       1.056933e-01
## 3645     5    1.7    35 -2.083126e+00  0.1025385764      -1.236500e-01
## 3646    -3    5.1   -26  2.830588e+00  0.9235294118      -2.563412e-02
## 3647   -13    5.1  -141 -4.795699e+00  1.5552297165      -1.390997e-02
## 3648   -10    3.0    -4  7.846890e-01 -1.5669856459       5.240011e-02
## 3649     0   -1.8   -19 -3.370520e-01 -2.9184214196       1.135852e-02
## 3650    -8   -2.6   -19 -2.662727e+00 -1.4011537920      -1.354166e-03
## 3651     5    1.3    89 -2.288818e+00  0.3080484330      -1.264150e-01
## 3652     5   -0.4   -84  4.890625e+00 -0.0937500000       2.182149e-02
## 3653     7   -0.1   -38  4.790559e+00 -1.5540780142       7.213714e-02
## 3654   -21    4.1   -12 -5.213370e+00 -1.0952380952       2.946421e-02
## 3655    -2    4.8   187 -5.566802e-02  0.2758097166      -8.489502e-02
## 3656    -2   -9.4   -59  8.486111e+00  0.7226430976       1.092693e-01
## 3657   -25   -3.3   -21 -1.390771e+01  0.2959976105      -1.092700e-01
## 3658    15   -5.2  -288  7.470912e-01  0.9326393141       1.079299e-02
## 3659     5    1.1   -72  1.331541e+00 -0.4112903226       3.606172e-02
## 3660    -5    0.6   103 -3.580952e+00  0.7574229692      -7.139048e-02
## 3661   -15    1.5    69 -1.005128e+01  0.6196581197      -1.602720e-01
## 3662    21   -5.7   -52  1.092350e+01 -0.6356775300       1.060187e-01
## 3663    -2    0.7    27 -4.051659e-01  1.7541478130      -4.001214e-02
## 3664    -2   -5.2   113 -3.521127e-03  1.0223004695      -9.506545e-02
## 3665     2    0.2  -111  3.467043e+00 -1.0357815443       3.482361e-02
## 3666    -2    4.0    33  3.831025e-01  1.2227618876      -5.821012e-02
## 3667   -13    5.3   -21 -5.626564e+00 -0.0440563087      -1.046457e-01
## 3668     0   -0.5    -6  1.240000e-01  1.0526896552      -3.887172e-02
```

```
## 3669    -16   6.5   -22 -7.277901e+00  -0.1301783871          -7.694462e-02
## 3670      0  -2.8    60 -7.273850e+00   0.1719128329          -1.189905e-02
## 3671      5  -2.6    35 -3.150180e+00   0.8872292756          -1.055656e-01
## 3672     -8   0.2   -14 -4.825175e+00  -2.1348651349           5.073451e-02
## 3673      5  -1.4    10 -2.315767e+00   1.0554052129          -7.252779e-02
## 3674      8   2.5     9  3.678571e+00   1.3253968254           1.524387e-02
## 3675     -7  -2.6   -22  3.003419e+00  -2.1591880342           3.486403e-02
## 3676    -13   0.7    -6  1.255301e+00   1.9052713480          -9.574155e-03
## 3677     -2  -2.5     2  1.069892e+00  -0.6665085389          -2.171375e-02
## 3678     -2  -5.7   -40 -2.690058e-02   0.7216374269          -4.505925e-02
## 3679     -2  -1.6    69  2.423246e+00   0.3736842105          -2.946684e-02
## 3680      0  -1.4   -11  3.294020e+00  -0.0664451827          -3.544046e-03
## 3681      5  -2.2   -10 -1.946333e+00  -1.3546511628          -1.669444e-02
## 3682      8  -1.7    -5  7.729323e-01   2.4671679198          -5.573820e-03
## 3683    -12   4.0   -18 -4.767879e+00  -0.1436363636           7.857761e-02
## 3684     20   2.1   -55  6.757056e+00  -0.2207989579           4.263790e-02
## 3685    -13   4.9   161 -2.054205e+00   0.6225937183          -5.112807e-02
## 3686    -10   3.7    31 -5.274510e+00  -0.1549019608          -5.240164e-02
## 3687      3  -4.2    18 -1.238092e+01   1.7234042553          -5.574832e-02
## 3688    -12   5.3   -27 -4.948646e-01  -1.0186741363           2.053963e-02
## 3689      8  -0.6    23  4.848352e+00  -0.8560439560           3.088353e-02
## 3690     13  -9.3    45  5.421911e+00   2.7261072261          -1.747977e-02
## 3691      5  -9.0   -52  1.000702e-01   0.8997542135           2.829750e-02
## 3692      0   1.7   -32 -2.554252e+00   1.0021994135           1.214932e-02
## 3693    -15  -4.6   -10 -4.712041e+00   0.6477272727          -9.177907e-02
## 3694    -21   3.3   -69 -3.682432e+00  -1.7942260442           3.845569e-03
## 3695      8  -6.4   -47  3.557350e+00  -2.9231241055           7.528307e-02
## 3696      3   2.3   -24 -3.437720e-01  -1.6133004926           1.064117e-02
## 3697      5  -2.4    54 -1.656000e+00  -0.2880000000          -5.685297e-02
## 3698     -5   0.8    35 -1.837183e+00  -1.5879284650          -8.398389e-02
## 3699     -3  -0.3    30 -4.950649e+00   0.0999683644          -6.173316e-02
## 3700     -5  -5.0    21 -4.257075e-01  -1.4147012579           9.071978e-03
## 3701     15  -2.8   -13  5.836653e+00  -0.2175389841          -2.989660e-02
## 3702     20  -6.9   -30  5.198574e+00   0.3256978155          -5.957298e-03
## 3703      8  -0.9     5 -2.942029e+00   2.9583333333           8.877809e-03
## 3704      6  -9.7    63  6.086120e+00   1.8411371237          -2.817830e-02
## 3705      7   0.9   -28  2.754054e+00  -2.2183183183           1.090991e-01
## 3706      5  -8.6    42 -1.134058e-01   1.4036231884          -5.415679e-02
## 3707      0  -2.7    46 -6.222472e-01  -0.6764044944          -3.057395e-02
## 3708     -5   2.2   -41  3.817743e+00   0.8366271410          -1.953261e-02
## 3709     10  -1.6    75 -3.288591e-01   0.6892276192          -7.403521e-02
## 3710    -15   3.3    32 -9.831933e-01   0.6162464986          -5.316284e-02
## 3711      0   0.4    42 -1.361827e+00  -0.3495934959          -8.074246e-02
## 3712      7   1.3    15  4.027098e+00   0.8068181818          -4.503161e-02
## 3713     28  -8.3    24  6.529487e+00   1.4858974359          -2.908074e-02
## 3714     -3   0.2   -49 -6.977727e-01   0.7026689708           7.110410e-02
## 3715     -5   1.9    32 -1.576036e+00   0.2726370628           4.641567e-02
## 3716     13  -1.6    19  2.136882e+00   2.2187096774          -3.867440e-02
## 3717      2   3.5     6 -1.026365e+00   0.6731841104          -5.526647e-04
## 3718    -10   2.7    26 -4.806915e+00  -0.0497280497          -3.889335e-02
## 3719     -3   5.1    10 -2.795578e+00   0.4693366708           4.095827e-03
## 3720      7  -1.2   -63  1.745774e+00  -0.3650291588           6.798426e-02
## 3721      0   0.4    28 -2.848004e+00  -1.3225458468          -2.608450e-02
## 3722      5  -5.4  -108  8.547619e-01  -0.9619047619           9.507057e-02
## 3723      5  -3.2    50  6.333333e+00   1.3520833333           2.708382e-02
## 3724     13  -9.3   -47  1.363392e+01  -0.5613472334           1.627054e-01
## 3725     11  -1.4     6 -4.357937e-01   1.1284125379           3.238764e-02
## 3726      2  -4.6    37 -4.938535e+00   1.1689280868          -9.942136e-02
```

82

```
## 3727    -5   -1.5   -34   4.230769e-02 -1.3141025641    2.998255e-03
## 3728     2   -5.1   111   1.288770e-01  0.5975935829   -4.022131e-02
## 3729     5    2.4    22  -1.146060e+00 -0.2132321955   -6.648510e-02
## 3730   -17    1.4    68   1.005861e+00  1.6395604396   -9.438492e-02
## 3731     0    4.3    29   1.864497e+00 -1.0648372997    7.294279e-03
## 3732     8   -0.2   -21  -3.474758e+00  1.8517722879   -2.067752e-02
## 3733    -3    2.0   -65   1.859336e+00 -0.5614035088    1.129291e-01
## 3734    -7   -5.0    73  -1.788166e+00  1.6462585034   -5.713764e-02
## 3735    -3    3.3   -37   2.430851e+00 -0.8237082067    5.485051e-02
## 3736     0    8.3   -27  -8.431525e-01 -0.5356589147    3.720245e-02
## 3737     7   -2.3    70   2.769116e+00  0.1062562066   -7.114975e-02
## 3738    10   -6.0   -25   5.895866e+00  1.1135284810    6.673839e-02
## 3739     5    4.6   -26   2.140741e-01  2.1600000000   -5.291115e-02
## 3740    13   -2.7   -38   4.282407e+00 -0.2129629630    3.050972e-02
## 3741     1    1.1   188  -3.915441e+00 -0.3839285714   -1.488411e-01
## 3742     5    0.3   -61   1.251526e+00 -0.9320309320    4.891323e-02
## 3743     5   -0.5    11   3.769231e-01 -0.0153846154   -1.030669e-02
## 3744     7    9.6    80  -1.658849e-01  0.2247334755   -1.823758e-02
## 3745     5    0.2   -71   5.598330e+00  1.1270871985    5.618988e-02
## 3746     0   -1.4    54  -4.266667e+00 -0.7482456140   -8.893612e-02
## 3747    -5    1.5   -47  -6.642391e+00 -1.0000000000    2.246598e-02
## 3748     7    3.5    24   4.926740e-02 -1.8593406593    5.720767e-02
## 3749     8   -7.4    38   7.417792e-01  0.1748009692   -4.063482e-02
## 3750    -7    0.4    14   3.816999e+00  0.3430105722    4.427970e-02
## 3751     0    3.2    47   6.519608e-01 -1.8970588235    3.680181e-02
## 3752    -2   -3.0   -71  -7.012623e-04  1.1676016830   -5.852102e-02
## 3753     2    0.1    58   2.608059e+00 -0.8608058608    1.753423e-01
## 3754    15   -0.2   -80   4.677019e+00 -0.3046435966    1.011529e-01
## 3755   -18   -4.8     8  -3.054667e+00  1.8210890233    1.592696e-02
## 3756     5   -8.9    14   5.930000e-01 -1.9860000000   -6.287052e-03
## 3757    25    2.2    24   1.214369e+01 -0.0012531328    1.040848e-01
## 3758    -8   -2.4    60  -3.994756e+00  0.4770068576    2.611547e-02
## 3759    -7   -1.3  -120  -1.780933e+00 -1.5786004057    8.868724e-03
## 3760    -8   -1.7   181  -2.354760e+00  1.5193046291   -7.504246e-04
## 3761   -13    4.2   -62  -2.043396e+00 -1.5660377358    1.007601e-01
## 3762     5   -4.0  -260  -2.473958e-01  0.1649305556    1.892130e-02
## 3763     0    4.3     4   2.051852e+00  0.0839506173    3.913530e-02
## 3764     7    3.2    48  -3.083591e+00  2.9328185328   -1.460094e-02
## 3765     5    0.4   -38   1.127622e-01 -1.1879370629   -3.545534e-02
## 3766     5    2.4   -24   2.242539e+00 -0.0938686923    9.818934e-02
## 3767     0    5.7   -61   5.575758e+00  0.2822510823    3.506749e-02
## 3768     8    8.6   -89   4.437500e+00 -0.8430232558    6.486616e-03
## 3769     0   -0.5    55  -3.065796e-01 -1.5033354399   -6.116710e-02
## 3770    10    6.3   -36   6.324242e+00  1.3121212121    4.872828e-02
## 3771   -11    6.8    38  -6.586791e+00  0.3845704267   -1.020972e-01
## 3772     8   -1.5  -165   6.063798e+00 -1.5488141202    1.028683e-01
## 3773     0   -1.1   128  -1.475973e+00  0.9206712433   -9.753572e-02
## 3774   -10   -6.4    16  -2.562893e-01  0.5490041929   -5.627980e-02
## 3775    21   -5.2    63   1.332026e-01  2.6019607843   -8.318231e-02
## 3776    -2    3.5    97  -3.681963e+00  0.1978779841   -9.431827e-02
## 3777   -12   -2.9   -12  -5.884419e+00 -0.4987228608   -1.426570e-02
## 3778   -10   -1.9    69  -4.613771e+00 -0.7309621523   -3.306508e-02
## 3779     5    1.3   -22   1.478571e+00  0.8297619048   -8.738181e-03
## 3780    -2   -3.0   -25  -1.009639e+00 -1.0906480722   -3.360614e-02
## 3781   -10   -2.1   -68  -3.471133e+00  0.4144880174    2.650119e-02
## 3782    12   -1.1   -79   1.359175e+00  0.2849484536    2.902073e-03
## 3783    13   -4.3  -102   8.494421e+00  0.2371900826    1.162021e-01
## 3784     3    2.0   -63   5.983607e+00 -0.8032786885    7.053989e-02
```

```
## 3785      5  -4.5    47 -1.566998e+00  0.8035141329        -7.076472e-02
## 3786      0  -2.4   -77 -1.400966e-01  1.4851621808        -1.504007e-02
## 3787    -10   1.5    92 -4.653571e+00  2.4250000000        -1.593926e-01
## 3788      0  -2.5   -85  6.321239e+00 -0.5553942912         1.432752e-02
## 3789     -5  -5.0   -57 -4.862331e+00 -1.0008130081        -4.533923e-02
## 3790    -25  -3.9     4 -1.436685e+01  0.2798913043        -1.403020e-01
## 3791     28  -4.6   -47  5.761675e+00 -0.2347826087         8.593126e-03
## 3792     10  -0.4   -33  4.053878e+00  0.1744897959         1.783946e-02
## 3793      0   0.3   -22 -1.037963e+00 -0.4057089039         5.930870e-02
## 3794     -5   5.8   -68  2.275979e+00 -1.4474252236         7.066316e-03
## 3795    -26   3.3    70 -1.277446e+01  0.8539354510        -6.604047e-02
## 3796     15   2.1   -57  1.057838e+01  0.2954954955         1.587510e-01
## 3797     -2  -1.8   -77 -3.958315e+00  0.8202344768        -3.075249e-02
## 3798     -3  -8.1  -188 -4.722934e+00 -2.5562678063         8.761447e-03
## 3799     -2  -5.3   -80 -5.944490e+00 -1.2245236123         3.639644e-02
## 3800    -16   9.8   156 -7.696667e+00  0.8333333333        -1.308188e-01
## 3801      5  -2.0     9 -8.351390e-01  0.2462580185         1.556071e-02
## 3802     15   2.6    24 -1.512380e+00 -0.0047335842        -7.372184e-02
## 3803      0  -7.0   -42 -3.522727e-01 -0.8874913255        -1.832754e-02
## 3804    -10  -1.3    77 -4.434997e+00 -1.7763827082         5.302929e-03
## 3805     -7  -8.0   -13 -3.760636e+00 -0.5264142122        -2.317816e-02
## 3806    -10   0.1   101 -8.410800e+00 -0.6978463517        -1.111066e-01
## 3807      7  -0.1    30 -3.309946e+00  0.2991935484        -4.660774e-02
## 3808     18  -5.1   -68  4.207042e+00 -1.0476861167         4.709977e-02
## 3809     13  -3.9    25 -2.376110e+00 -0.5734463277         3.152337e-02
## 3810     23   2.4    54  1.030610e+01  1.0376657825         2.858362e-03
## 3811     -7   0.7   -25 -2.935352e+00 -0.2741700641         1.532292e-02
## 3812      0   0.4    12 -1.497392e+00  0.2072248305         7.406840e-02
## 3813    -18   3.6     2 -5.118795e+00  1.0089285714        -1.885674e-02
## 3814      0  -1.4   117  3.363057e+00  1.2559235669        -4.722858e-02
## 3815     -8   6.2   180  1.906760e+00  0.3654188948        -8.560777e-02
## 3816     10  -4.2    13  2.412347e+00  0.2933815350        -3.398293e-02
## 3817     -7  -0.6    88 -4.067896e+00 -0.5182961692        -4.513060e-02
## 3818    -10  -4.7    20 -8.046225e+00  0.5286875726        -9.543728e-02
## 3819     20  -4.9   -30  2.161157e+00 -0.1351010101         5.568105e-03
## 3820     -8  11.2   -35  1.608474e+00 -0.9420197515         6.751998e-02
## 3821    -13   0.1     3  4.537798e-01  0.0117911286        -2.749124e-02
## 3822     -3  -4.7   -17 -7.745099e+00 -2.1093872522        -1.305030e-02
## 3823    -13   5.1     4 -1.160256e+00 -0.7751068376        -5.079299e-03
## 3824     12   2.6   -22  5.356772e+00 -0.7536799746         6.366422e-02
## 3825    -13   7.1    -8 -6.221228e-01 -0.9068120399         4.489243e-02
## 3826     11   0.7     5  4.030489e+00  0.7601859448        -3.005547e-02
## 3827     -2   0.0    -3 -3.443181e+00  0.5538342769         2.766706e-02
## 3828      0   4.8     1  4.154054e+00 -0.0831081081         4.676766e-02
## 3829     -3   1.0     1 -8.820727e-01 -1.4389092147        -2.254346e-02
## 3830      0  -5.3   -51 -2.416088e+00  1.6180555556        -3.335888e-02
## 3831     13   3.0   -68  5.844417e+00 -2.4733169130         4.062659e-02
## 3832     -2  -6.0   -12 -6.662406e+00 -1.4872180451        -3.385763e-03
## 3833      8   1.2   -93  1.217829e+00 -0.3258397933         3.015570e-02
## 3834      3   0.4    39  1.160133e+01  1.0981373367         1.453286e-02
## 3835      8   2.9    74 -1.230370e+00  1.0025925926        -6.148051e-02
## 3836      2  -2.8    15  1.617787e+00  0.2262845850         2.202113e-02
## 3837     -7  -1.1   -63  6.184807e-01 -0.3509070295         5.221034e-02
## 3838      5   3.3     7  1.113636e+00  2.1276223776         1.557315e-02
## 3839      6  -3.4    87  3.905660e+00  0.7978436658         1.863048e-03
## 3840    -10   3.5   -28 -2.298389e+00  0.4187824188         4.922058e-03
## 3841     10  -2.8   -18  4.711475e+00  0.0590163934         4.533136e-02
## 3842      0   0.6    25  1.941176e+00  1.8844049248         1.490855e-02
```

```
## 3843     3   1.4   -52  3.461538e+00 -0.3076923077         6.599853e-02
## 3844     2  -2.5    49  1.530533e+00  0.1550151976         2.404923e-02
## 3845   -15   0.9   -14 -5.939394e-01 -1.3666666667        -1.902165e-02
## 3846    -3   0.1   -23  1.670732e+00  1.1146341463         5.735319e-02
## 3847   -20  -8.0    65 -1.428936e+01  2.3898743533        -1.948087e-01
## 3848   -10  10.2     9 -9.618182e-01  1.2430303030        -4.824492e-02
## 3849    13  -0.1    36 -5.756410e-01  0.9903846154         3.269399e-02
## 3850    -8   0.0    65 -7.986768e+00 -2.0120428189        -1.138429e-01
## 3851   -10   6.8   -38 -6.040043e+00  0.3149350649        -1.441615e-02
## 3852     0  -7.7  -198 -3.284483e+00 -0.4575123153        -1.195245e-01
## 3853   -15  -6.6   -72 -4.438095e+00  0.1928571429        -9.792916e-03
## 3854    -7   2.4   -76  1.111683e+00  0.7493566650        -2.272064e-02
## 3855   -16   4.6   135 -3.295849e+00 -0.3287216381        -6.644716e-03
## 3856     0   0.7    97  2.416485e+00  0.8874364561         5.370749e-03
## 3857     0   1.7    57  6.007071e+00  2.2565656566         1.020670e-02
## 3858     7  -5.0   -36  2.741259e+00 -0.5524475524         1.492509e-02
## 3859     2  -0.8   -55 -6.647713e-01  0.7981390540        -8.893966e-03
## 3860     3   6.3   -39 -4.279608e+00 -1.5150980392         2.081026e-02
## 3861    10  -0.1    65 -2.188303e+00  0.0285864149        -7.894358e-02
## 3862     0   0.2     3  1.884721e+00  0.5331325301         1.050945e-02
## 3863     5  -2.1   -70  3.232955e+00  1.3939393939         5.437022e-02
## 3864     0   1.3   -73  5.918626e+00 -0.9989550679        -2.197553e-02
## 3865   -20   8.3    97 -5.538292e+00  0.1420357230        -1.016089e-01
## 3866     7  -2.7     1 -1.176281e+00 -0.1952143087        -1.352718e-02
## 3867     0  -8.7   194 -3.426087e+00  2.8632411067        -4.800899e-02
## 3868   -10   7.9   182  1.751515e+00  1.0545454545         1.243406e-01
## 3869     0  -4.2    82  3.241071e+00 -0.5625000000         1.734698e-02
## 3870    10  -1.2   -63  4.508921e+00 -0.5420560748         6.676191e-02
## 3871    -2  -5.7    88  3.921380e+00  0.0617845118         3.738704e-02
## 3872    33   6.1   -27  1.521695e+01 -0.6148720682         1.077371e-01
## 3873    -6   3.7    71  2.129151e+00  1.7642857143         1.781698e-02
## 3874   -10   3.3    24  1.301765e+00  1.0380406002         1.171518e-02
## 3875     7   3.1    16 -2.659602e+00  2.3547609482        -2.835526e-02
## 3876     7  -2.6   -17 -6.417441e-01 -0.0278840897        -5.951639e-03
## 3877    10  -1.9   -17  5.522487e+00  1.8915343915         7.256335e-02
## 3878    -5  -1.6   -39  3.974866e+00 -0.9558823529         6.467874e-02
## 3879     8  -5.1   -37  4.876898e+00  1.4428593343         2.185424e-02
## 3880    -2   0.0    31 -6.715686e-01 -0.0875350140         3.004941e-02
## 3881    -5   5.4  -197 -3.305556e+00 -3.6481481481        -2.990971e-02
## 3882     3  -8.8    83  4.261268e+00  0.4299960112        -3.210505e-02
## 3883     7  -4.5    62  4.706044e+00  0.0151098901        -4.518970e-02
## 3884   -18   1.9    26 -1.308142e+00  0.2050496454         1.597740e-02
## 3885     3  -2.9    53  5.151357e+00  1.6161764706         2.477538e-02
## 3886   -10  -0.9   -64  6.955128e-01 -0.4220085470        -3.039810e-02
## 3887   -10   1.6    -1 -3.024859e+00 -1.1875554898        -1.870595e-02
## 3888     7   3.5   -30 -1.821818e+00 -0.4909090909         3.879159e-02
## 3889    25   3.4     7  1.377343e+01 -0.3226184279         9.991402e-02
## 3890     3   0.9    -6 -7.283944e-01 -1.4706478873         2.605247e-02
## 3891    -2   1.1    26  1.112605e+00  0.4448179272        -3.679363e-02
## 3892     0  -0.4     7 -6.096838e-01 -0.1205533597        -4.370905e-03
## 3893     5   0.6   -35  2.346185e-01  0.2526661198        -2.352721e-02
## 3894    10   2.0    66  1.125764e+00  0.1697220580         3.317044e-02
## 3895    -2   2.4   -52  3.776107e-01  0.2610693400        -4.013983e-03
## 3896     2  -5.3    58  2.922530e+00 -0.1320158103         1.233723e-02
## 3897    -5   0.5   -80 -2.042918e+00 -2.5312610385         6.262726e-02
## 3898    -5  -6.8     4  1.016667e+00  0.9083333333        -1.032199e-02
## 3899     3  -0.7   -48  7.448276e-01  1.0977011494         3.834828e-02
## 3900     2   2.2  -161  1.070677e+00 -0.1789473684         2.348489e-02
```

```
## 3901    -5    6.1  -105 -4.695327e+00 -0.0130841121       -1.691543e-01
## 3902   -15   11.3   -44 -4.648451e+00 -1.6797183099        1.550681e-02
## 3903    10    6.5    39 -3.732620e+00  2.3132161956       -1.468145e-02
## 3904    -3   -0.3   718 -5.189655e+00  0.1022167488       -9.750401e-03
## 3905    13   -2.6    15  3.404762e+00 -0.3577694236       -1.127173e-02
## 3906    -2    3.0   145  2.795043e+00  0.7096774194        7.512106e-02
## 3907   -12    5.8    -5 -4.377143e+00  0.0700000000        3.102410e-02
## 3908    15    5.0   -47  4.629328e+00 -1.2332081769        1.259560e-02
## 3909     0   -0.2    -1 -6.285785e-01  1.1784914115        1.178245e-02
## 3910   -15    2.7   -33 -3.946491e+00  0.3866666667        6.201914e-02
## 3911    11   -5.6    41 -2.882144e+00  1.2204839383       -2.290506e-02
## 3912    -5    7.3   -37 -3.404167e+00 -1.7847222222       -4.455860e-02
## 3913    12   -2.7   -70  4.940080e+00 -0.5195469492        1.281210e-01
## 3914    18    4.6  -231  1.344118e+01  0.5252100840        4.380246e-02
## 3915     0   -0.1    47 -3.699889e+00  1.0177187154       -1.131083e-01
## 3916     0    2.6  -221 -5.788767e-01  0.7212454212        2.513360e-02
## 3917    -8    7.3    33 -2.558897e+00 -0.8295739348       -5.588999e-03
## 3918    10  -11.2   -64  2.058824e-01 -0.2463235294        6.406213e-02
## 3919    -8    0.8   -18  3.464264e+00  0.2996996997        5.342308e-02
## 3920     5   -2.0   -49  2.301821e+00 -1.6481983727        4.469189e-02
## 3921   -10    1.1   -24 -4.616873e+00 -1.6253434066       -9.804381e-02
## 3922     5    6.3    50  1.167832e+00  1.6573426573       -6.606758e-03
## 3923     8   -8.4   -37  1.245065e-01 -0.9251442454       -1.339488e-02
## 3924   -16    7.4   -14 -4.884615e+00 -0.6945701357        5.425537e-02
## 3925    12   -2.5    -5 -2.834467e+00 -0.2267573696       -7.540408e-02
## 3926    15    4.1    82 -2.950855e+00 -0.6166819292       -1.201275e-02
## 3927   -10    3.7    77  7.243590e-01 -0.8653846154        4.596279e-02
## 3928     0   -9.6  -141  9.918864e-01  2.0392156863       -1.162226e-02
## 3929    -5   -1.5   -34  7.432482e-01  1.3020717721       -5.758912e-02
## 3930     5   -1.8    51 -7.347354e-01 -0.0780189959       -1.177939e-03
## 3931   -16    4.6    57 -1.216393e+01  1.0737704918       -1.378135e-01
## 3932     0   -0.1   -70  7.972028e-01 -1.5762237762       -9.310959e-03
## 3933   -15   -1.5    53 -4.420824e+00  0.0910612655       -4.406078e-02
## 3934    -3    4.5    57  1.415663e+00  0.2879518072       -2.799245e-02
## 3935    -8    1.4   -36 -8.864662e+00  0.7293233083       -4.448985e-02
## 3936     0    0.3   -17  1.630935e+00  0.5284857571       -5.957096e-05
## 3937    -5    0.8   -12 -1.289174e+00 -3.0548433048       -3.270357e-03
## 3938    -7   -5.3    43  2.461538e-01  0.1318681319       -4.299714e-02
## 3939   -13    7.0    85 -4.599000e+00 -0.4362095197       -4.458325e-02
## 3940    -7    0.6  -684 -3.497781e+00 -0.7292591328       -4.512841e-02
## 3941    15   -8.3   -43  3.640072e+00 -2.0342148513        8.497242e-02
## 3942     0    3.7    59  2.170692e+00  1.5660225443       -2.596514e-02
## 3943     7   -3.2   -17  3.337931e+00 -0.1873563218       -1.725496e-02
## 3944    -3    3.0    72 -1.861792e+00  0.9276679842        3.274430e-02
## 3945     5   -0.3  -208 -1.141985e+00 -2.4885496183        4.969667e-02
## 3946     0    2.6    31 -4.536654e+00  0.3210727969       -3.038468e-02
## 3947    18   -6.5   -95  3.400000e+00 -1.9933333333        7.860435e-02
## 3948    -7   -4.6    -3  3.745037e+00 -0.0452853598        9.224716e-02
## 3949     0   -4.2    37 -1.922571e+00 -1.7303523035        9.227896e-04
## 3950   -12    0.4   -15  1.910207e+00  0.1696164126        6.410058e-02
## 3951     7    2.2   -38  2.000801e+00  0.6185897436        1.833796e-02
## 3952     0   -0.6   -42  7.592593e-01 -0.4682821119       -2.469319e-02
## 3953    13   -0.2   -37  3.384259e-01 -0.6361111111        1.609188e-02
## 3954     0   -4.0    44 -5.867528e+00  0.0648365541       -1.145799e-01
## 3955     3    0.3   -15 -3.095441e+00 -0.5699088146       -6.232417e-02
## 3956     0    0.0    43 -4.288746e+00  0.7609785933       -1.215912e-01
## 3957    13    1.4   -62  7.706798e+00 -1.6031746032        1.277019e-01
## 3958    -5    2.4   -53  4.422048e+00 -0.4474885845       -4.481058e-02
```

```
## 3959    -7   5.0    33 -2.734970e+00  0.5521795495        -1.549402e-02
## 3960    -3   4.7   -27  3.905030e-02  1.7780901802         1.914600e-02
## 3961     5  -6.3   -31  6.416476e+00 -0.0026758410         3.624406e-02
## 3962    -5   2.7    14  6.180223e-02  0.2029505582        -1.001857e-02
## 3963     8  -4.3   -29  7.943750e+00  0.6706250000         1.224116e-01
## 3964     0   4.0    58 -7.619048e+00  0.5646258503        -3.092203e-02
## 3965     6  -1.5   -38  3.226959e+00 -0.0432601881         5.504327e-02
## 3966     7  -0.1   -46  4.852954e+00 -1.5699864978         7.481407e-02
## 3967    -2   3.1    -3 -5.972247e-01 -0.0946450809        -1.722501e-02
## 3968    13  -7.2     7  5.695007e-01  0.8613360324        -4.818896e-02
## 3969   -17   4.1    71 -4.674126e+00 -1.3734265734        -4.939083e-02
## 3970   -13   1.9    56 -1.526844e+00  0.3291316527        -4.208561e-02
## 3971    -3   2.3   -50 -6.159091e-01 -0.2153409091         2.886204e-02
## 3972    -5   1.8   -42 -2.936224e+00 -0.1989795918        -3.584166e-02
## 3973    -8  -0.3  -211 -3.736607e+00 -0.4598214286        -6.858217e-02
## 3974   -17   0.4    43 -3.781532e+00  0.7747747748        -6.380916e-02
## 3975     5  -5.3    11  4.736533e-01 -0.7546568216        -1.711651e-02
## 3976    -2  -8.4    28  1.854599e+00  0.5985753195         4.397369e-02
## 3977   -12   4.7   -56 -3.253722e-01 -1.2999379653         3.644016e-02
## 3978    10  -7.8   -21 -2.025974e+00 -0.7246753247         8.763995e-03
## 3979     5  -0.7   -68  3.855072e+00 -0.3576184881         4.081591e-02
## 3980     0  -5.2    47  1.144201e+00  0.6068965517        -8.105858e-03
## 3981    -7   1.8    67 -2.858067e+00  0.6544434858        -4.839072e-02
## 3982   -11   7.5   -17  1.787879e+00 -1.5693473193         9.291312e-03
## 3983     0  -3.9    22  1.849095e+00  0.2766599598         8.499529e-02
## 3984    13   2.0  -101  6.683838e+00 -0.0131313131        -5.143269e-03
## 3985    13  -3.9    39  8.071084e+00  0.7104899931         8.369197e-02
## 3986    -2   2.6    36 -2.090566e+00  0.6467924528        -3.476795e-02
## 3987     5   0.3   323  1.266667e+00 -0.6236559140         9.552651e-02
## 3988    20  -3.6  -182  4.947619e+00  0.4761904762         1.275081e-02
## 3989     5   0.0    90 -7.265727e-01 -0.3066841415        -3.139938e-02
## 3990   -10   2.2    18 -7.695386e-01 -0.2073917137        -4.489234e-02
## 3991   -16  -3.3   -61  1.478205e+00 -0.8224358974        -4.399387e-02
## 3992   -18  -4.5   -45 -3.565511e+00  1.0722679201        -4.459311e-02
## 3993     5   1.3  -142  4.385990e+00  0.0043478261         6.667712e-02
## 3994     3  -6.1  -478 -1.781013e+00 -1.0856144438         3.096565e-02
## 3995     5   9.9    30 -1.388889e-01 -1.6126543210        -1.025928e-02
## 3996     6  -2.3   -35  5.142857e+00 -1.4263736264         8.085540e-02
## 3997     2   3.2    78 -9.435484e-01  1.2677419355        -3.500587e-02
## 3998     0  -2.2    28  8.528345e-01 -0.8417233560         7.981120e-03
## 3999    -3   3.7     8  1.022702e+00 -1.7679955703         9.559808e-02
## 4000   -15   0.1    -8 -3.412121e+00  0.5660606061        -3.209312e-02
## 4001    12  -5.6    62  7.363636e-01  0.8909090909         6.118571e-02
## 4002   -20   7.3    30 -5.338638e+00  0.7373116335        -2.182659e-02
## 4003    -3  -3.8  -210 -4.981578e+00  0.3460085026        -1.137237e-02
## 4004     5   4.2    60 -5.317896e+00 -0.9473235371         2.912765e-02
## 4005    -5   4.7    66 -2.343693e+00 -0.8261211644        -8.224064e-02
## 4006    -3   2.1    48 -5.628838e+00  0.1787280702        -8.976104e-02
## 4007    13   3.1   -52  6.065247e+00 -2.3581730769         3.604822e-02
## 4008   -23  -4.3    28 -1.373333e+01  1.1200000000        -1.181963e-01
## 4009     5  -7.5  -204 -3.750000e+00 -0.7803030303        -6.985397e-03
## 4010     0  -3.6    20  2.351403e+00  0.6195999527         1.747862e-02
## 4011     0  -1.9   -31  1.803571e+00 -0.1071428571         1.066338e-02
## 4012    10   8.5    32 -2.652802e-01  0.2749977295         7.218246e-02
## 4013    11  -8.6    50 -6.518564e-01  1.9107324001        -3.314072e-02
## 4014    -5   2.3    65  9.493769e-01  1.2211838006         1.242348e-02
## 4015    -5  -1.4    63  5.024346e-01  0.9933049300         6.657345e-02
## 4016   -13   4.1   -72 -1.971044e+00 -1.6747474747         1.079256e-01
```

```
## 4017     0  -1.4   -89  6.452706e+00   0.1590588235      1.267593e-01
## 4018   -15  11.3   -22 -5.047323e+00  -1.5252801993      2.022770e-02
## 4019   -20  -8.4   -76 -2.483282e+00   1.4722344970     -1.414861e-03
## 4020   -13   2.2     5 -2.771774e+00   0.1899193548     -1.143566e-02
## 4021    -3   5.0    33 -7.869875e+00  -0.1292335116     -1.266809e-01
## 4022     3  -0.4   -93  5.627757e-01   1.3829963235      3.323958e-02
## 4023    13   5.3    33  4.728962e+00  -0.2208976157     -1.646351e-02
## 4024    -5  -1.8     3  2.418681e+00  -2.4842032967      2.678704e-02
## 4025     7  -5.1   139 -5.178157e+00   0.4417327639      6.784984e-02
## 4026    -7  -0.9   209  1.006269e+00   0.7993870159     -1.396906e-02
## 4027    -8  -1.7  -258 -4.296892e+00  -1.3048464669      3.559309e-03
## 4028    10  -3.4     4 -2.208113e+00  -0.2610229277     -2.302737e-02
## 4029    23  -3.9   -25  1.082769e+01  -0.0208677686      8.507880e-02
## 4030     3  -1.1   -42  7.257871e-02  -0.7575102139     -4.770725e-02
## 4031   -10  -4.1   -41 -1.889118e+00  -1.0227956989     -3.518592e-02
## 4032   -13   8.9   -71 -6.819149e+00  -0.5638297872     -5.311228e-02
## 4033     5   4.7     9  3.792793e+00  -0.6486486486      8.426089e-02
## 4034     8  -8.3   -40  5.345096e-02  -0.9613388687     -1.245269e-02
## 4035    28  -9.9   -16  1.262646e+01  -0.0578862445      1.174328e-01
## 4036     2   2.2   107 -3.189612e+00   0.7435658915      3.803079e-03
## 4037   -12   0.9   230  2.766420e+00  -2.4908641975      7.655044e-03
## 4038    -5  -0.3   -80 -3.260135e-02  -1.1775337838      5.038452e-02
## 4039     2   2.5   -10 -1.701609e+00   0.4139190953      1.502456e-02
## 4040     0   0.4    15 -1.679991e+00   0.2474574267      8.190078e-02
## 4041   -18   9.5   249 -6.722910e+00   0.3150154799     -1.290994e-01
## 4042     8  -3.4     6  4.761809e+00   0.0523046747     -8.033697e-02
## 4043    13  -9.6    -3  8.485270e+00  -0.1395818484      1.121235e-01
## 4044    31   2.5  -122  1.283115e+01  -1.0000000000      1.281650e-01
## 4045     5   3.4   -71  5.646259e-01  -0.5952380952      9.883259e-02
## 4046   -13  -2.1   -44 -7.124183e-01  -1.3387799564     -2.663352e-02
## 4047    -8   1.3   -23 -4.432925e+00  -0.7014965986     -9.100907e-02
## 4048     8   6.6  -268  3.635772e+00   0.3121951220      7.070688e-03
## 4049    20   4.6   -47  1.048718e+01  -1.0492142266      7.746737e-02
## 4050     5 -14.6  -128 -2.290476e+00  -1.6801587302     -7.679044e-03
## 4051     0   2.8    68 -3.341270e+00  -0.5555555556     -8.079269e-02
## 4052     0   1.9    30 -1.842844e+00   0.0486725664     -1.016265e-02
## 4053     3   1.5   -31  4.843478e+00  -1.0478260870      8.379093e-02
## 4054     3   6.9   112 -2.729630e+00   0.4407407407     -2.486078e-02
## 4055     0  -1.2    34 -3.725490e-01   0.8176470588     -3.067515e-02
## 4056     7  -0.3   143  9.124849e-01   0.1370935367     -2.347081e-02
## 4057     8  -5.9    10  7.414103e-01  -1.8339743590     -9.996330e-03
## 4058     3  -2.9    27 -2.577404e+00   2.0954219526     -5.565964e-02
## 4059    -3  -0.7  -114 -1.000000e+00   0.7178571429      2.838254e-02
## 4060    -2  -1.7    21  3.030303e+00   0.6080808081      3.917476e-02
## 4061   -18   4.2   148 -1.304886e-01   0.5306122449     -4.816071e-02
## 4062     3  -3.8    35  1.194444e+00   0.6092592593      5.453437e-02
## 4063    18   0.1   -10  3.249062e-02  -0.7050167885      6.295701e-02
## 4064     0   5.1    18 -3.992445e+00  -0.9436650119     -1.010329e-01
## 4065   -14  -6.4   132 -1.351662e+01   1.0784313725     -2.384954e-01
## 4066    10  -2.8   -15  6.181818e+00   0.8863636364      8.429754e-02
## 4067    -5   4.8   -11 -6.065217e+00  -1.0495923913     -3.024997e-02
## 4068   -13  -2.9    29 -3.621795e+00  -1.0334757835     -9.983835e-02
## 4069    -3   9.1    35  1.169912e+00   0.0794100295      1.733419e-02
## 4070    15  -1.9   -46  4.072682e+00  -0.3851294904      4.584435e-02
## 4071     5   0.2   -41  3.415528e+00  -0.3269453451      5.867140e-02
## 4072     5  -2.2   -29  5.088463e+00   1.6233470132      7.596340e-02
## 4073   -10   2.8    16 -4.866458e+00   0.0337500000     -4.156975e-02
## 4074     2  -4.2    89 -5.628178e+00   2.2356991525     -7.592860e-02
```

```
## 4075     5  -2.2   37 -1.319444e+00 -0.4166666667      -3.101770e-02
## 4076    -2   4.0   18 -1.536342e+00  0.2506666667      -5.367471e-02
## 4077     2  -0.4   68 -1.916406e+00  0.1334167188      -4.346599e-02
## 4078     0   2.7  -80  3.353495e+00 -1.0530630331       3.777677e-02
## 4079    13  -7.1  -24  3.585660e+00  0.3570099025       7.162501e-02
## 4080     5   1.2   37  7.761266e-01  1.7501203990      -2.940789e-02
## 4081   -15   0.2  -48 -1.569256e+00 -3.0840108401       9.293577e-02
## 4082   -10  -2.2   71 -1.305617e+01  2.4131559497      -9.206681e-02
## 4083    -5  -1.4  -73 -1.785752e+00  0.6365127263       8.784596e-02
## 4084   -10  -2.3   32 -2.375470e+00  0.9017857143      -1.027197e-01
## 4085    18  -4.8 -250  3.668478e+00  0.1168478261       1.837524e-02
## 4086    -7   0.7   77 -5.738699e+00  0.8291046952      -8.726927e-02
## 4087    -5  -1.6  -28  6.109766e-01  1.2269572236      -4.847018e-02
## 4088     0  -4.0   21 -5.742049e+00  0.0579176431      -1.076703e-01
## 4089     5  -5.7 -181  4.100490e+00 -0.7904411765       4.000390e-02
## 4090    -2  -1.6   52  3.861905e-01 -0.7609523810       5.573334e-02
## 4091    18  -5.9  -30  3.930135e+00  0.6481481481       4.686513e-03
## 4092    11   2.1  -69  6.663110e-01 -0.3263394974       2.318390e-02
## 4093     5  -2.8   29 -2.829901e+00  0.3051106026      -1.592852e-02
## 4094   -16   2.3 -138 -1.874317e+00 -0.7431693989       1.501272e-01
## 4095    13  -1.2 -133  4.314286e+00 -1.2214285714       1.019099e-01
## 4096   -10  -2.9  -47 -5.061502e+00 -0.7470431697      -4.187500e-02
## 4097    12  -4.5   10  4.743088e+00  0.9957757296       5.000854e-02
## 4098    -8   0.3  -91  3.570312e+00 -1.1149553571       3.064738e-02
## 4099     2   4.2    6 -3.614295e+00 -2.2753573860      -3.945768e-02
## 4100    -5   1.2  -25 -1.701603e+00 -0.7124349581       2.741357e-02
## 4101    -5  -0.6   26 -4.763424e+00  0.6862270332      -7.614201e-02
## 4102   -13   3.7  -87 -2.928795e-01 -2.1265114196       3.264619e-02
## 4103    10   3.7  -30  9.035714e-01 -0.7690476190       1.225643e-02
## 4104     3  -0.1   12  3.665970e+00  2.1691613471      -3.179432e-02
## 4105    -5   3.9  -44  1.767429e+00 -0.6619392877       1.378696e-01
## 4106   -13  -7.5   26 -1.042073e+01 -0.1434454358      -6.736403e-02
## 4107    -8   2.9    8  2.032194e+00 -0.7497902685      -3.884620e-02
## 4108    -5   4.8  -37 -7.421384e-01  1.0182389937      -3.533909e-02
## 4109    15  -3.7    6 -1.536266e+00  0.8764996471      -7.829525e-02
## 4110    -6  -1.7   -3  1.814530e-01  0.1983539901       1.451856e-02
## 4111    -5   1.9  -35 -1.165217e+00 -1.3739130435       4.563900e-02
## 4112    -4  -3.1  -95  4.390258e+00  0.3561030235       1.297015e-01
## 4113    10  -3.4    5 -2.249248e+00 -0.3236662107      -1.474853e-02
## 4114    -5  -1.7  -15  2.617680e+00 -2.1628662891      -4.930201e-02
## 4115     3   1.5  -43  3.844262e+00 -0.5836065574       7.402614e-02
## 4116    -2  -0.9   31 -3.667498e+00  1.2677690431      -1.077803e-01
## 4117    13  -5.7   74  7.357534e-01 -0.6895942558      -5.944114e-02
## 4118    -3  -1.1   25 -5.951636e+00  0.1029090909      -7.314318e-02
## 4119    -2   0.0   -3 -3.319710e+00  0.4947826087       2.665001e-02
## 4120    -5  -1.3    2  1.049896e+00 -1.8947230930       3.308283e-02
## 4121    19  -0.3   98  1.988710e+00  0.4983870968      -1.024777e-01
## 4122   -13   7.1   -7 -7.359869e-01 -0.7589445438       4.229168e-02
## 4123   -13   1.7  -21 -2.096924e+00 -2.2052403737       2.894641e-02
## 4124     9  -0.8 -137  5.823681e+00 -1.2895752896       1.321530e-01
## 4125     5  -5.8    1  9.590799e-02  0.9824955322      -5.598174e-02
## 4126     5  -7.1   26 -9.607646e-01  2.0804828974      -7.434850e-02
## 4127    10  -3.4   60  2.314504e-01  0.3554198473      -7.361783e-02
## 4128    10  -1.2   10  5.731672e+00  0.1180931744       5.813339e-02
## 4129    13  -0.2  -77 -8.317215e-02 -1.0038684720       7.812704e-02
## 4130   -23  -0.3  167 -8.743653e+00 -1.3876160991      -9.665682e-02
## 4131    18   3.2  -10  1.283253e+01 -2.8905335628       1.098705e-01
## 4132   -15   2.7  -39 -3.929901e+00  0.3663151365       4.564650e-02
```

```
## 4133    10   0.8     9  2.515714e+00   0.9200000000           1.224602e-02
## 4134    10  -8.5   -10  5.821429e+00   0.9285714286           3.091480e-02
## 4135     0   0.8  -114 -2.200561e+00   1.9775596073          -2.308956e-02
## 4136    -8   6.2   -10 -2.620968e+00  -1.0992943548           3.780329e-03
## 4137   -22   3.1     3 -2.974624e+00   0.1936090226           1.896436e-02
## 4138    -5   6.3   -43  2.271098e+00  -0.6472697187           1.197136e-02
## 4139     8  -3.1    -5  2.060672e+00  -1.6398970748          -2.156521e-02
## 4140    13   3.2     1 -1.379870e-01   1.3847402597           6.926355e-03
## 4141   -10   5.7  -148 -5.683093e+00   1.2446898895           5.613897e-02
## 4142    -8  -2.5   -34 -5.657036e-01  -0.8114321218          -4.731662e-02
## 4143   -13   6.2   -57 -5.071585e+00  -1.9737704918           1.051679e-02
## 4144     0   6.2   -97 -4.235088e+00  -0.6438596491          -4.490683e-02
## 4145     0  -8.2    34  5.421053e-01   0.6861842105          -4.702381e-02
## 4146    -8  -0.5     6  5.404667e-01   1.9878351539           4.609732e-04
## 4147     0   9.5    37  8.673423e+00   0.6875000000           3.510996e-02
## 4148    -5   1.7   -17 -1.808775e-01  -0.9517125211          -1.461506e-02
## 4149     5  -5.3   -32 -1.399204e+00   0.7990716180          -6.435382e-03
## 4150    -3  -3.3  -125 -4.650290e+00  -1.7699115044          -5.206768e-02
## 4151    -3   3.5    -8 -2.990769e+00  -0.6815384615          -3.985851e-02
## 4152    -3  -0.1   144 -3.539367e-01   0.4591611479          -1.136309e-01
## 4153   -10  -2.3    27 -2.311527e+00   0.9390612748          -1.030966e-01
## 4154     3  -1.6    41 -2.006944e+00   0.4285714286           4.852521e-03
## 4155   -15   2.1   -73 -2.922276e+00  -1.3036858974          -7.256318e-02
## 4156   -10  -2.1   -41 -1.397236e+00   1.6650780412          -2.939443e-02
## 4157    -2  -0.3   -21  7.188660e+00  -3.4548022599           1.115444e-01
## 4158     3   0.3   -69  1.259048e+00  -0.1466666667           4.269846e-02
## 4159     2  -3.9   -88  3.841466e+00  -1.5928571429           9.774875e-02
## 4160   -10  -6.2    47 -1.746400e+00   1.3148730034          -4.991294e-02
## 4161     0  -2.5  -188  1.024038e+00   0.4415064103           8.373678e-02
## 4162     8   0.2   -50  2.633224e+00  -0.4901315789           1.096132e-02
## 4163    28  -0.1   -75  1.427360e+01   0.6324143693           1.268093e-01
## 4164     5   2.2    71  6.787924e+00   1.4902922978           9.168499e-03
## 4165     3  -6.0    58 -6.934975e-01  -0.8680555556          -4.108020e-02
## 4166    -2   2.2   -38  4.211283e+00  -0.2290560472           9.058160e-02
## 4167   -13   9.1   -97 -2.538795e+00  -1.6236144578           6.199857e-02
## 4168    -2  -7.1    19  4.565163e+00  -0.3368421053          -2.357185e-02
## 4169    -8   3.7   -61  1.811731e+00  -0.5010473946           5.378520e-02
## 4170    -4   3.1   120 -3.888056e+00   1.6651674163          -1.602975e-01
## 4171    -3   1.7    70  3.222222e-01   1.0703703704          -4.575546e-02
## 4172     5  -6.6    30  8.101959e-01   0.2517281106          -1.226002e-02
## 4173    13  -7.9   -11  1.122949e+01  -0.0175115207           1.240047e-01
## 4174     5  11.0  -182  1.953970e+00  -2.5759493671           8.195147e-02
## 4175     2   4.9    35 -2.361776e+00   0.7009516257          -9.269846e-03
## 4176     0  -1.6    39  2.435747e+00  -1.0573432343          -5.901868e-03
## 4177    18  -6.7   -50  3.803066e+00  -0.6504151586           2.894014e-02
## 4178   -13  -1.1   -63 -8.338025e+00  -0.8217054264          -8.730069e-03
## 4179    -5  -3.7    32 -4.048289e+00  -0.7754841067          -5.584752e-02
## 4180    -2   4.6    50 -4.510569e+00  -0.2105691057          -2.276977e-02
## 4181    -2   8.1   143  4.330363e+00   1.7884488449           7.791647e-02
## 4182    -3   0.9   -76 -2.289034e+00  -2.0025417574           2.097771e-02
## 4183    15   1.0    29  6.009868e+00  -0.2904135338          -5.822635e-02
## 4184    -8   2.0   -12 -2.060969e+00  -0.0288265306          -1.032107e-01
## 4185     5  -2.3    46 -4.030921e+00  -0.7692530400           2.410699e-02
## 4186     8  -3.1   -24 -4.296232e+00   0.5024764873          -5.974491e-02
## 4187    -5  -8.9   -20  2.611918e+00  -0.1203871748           2.268752e-02
## 4188     0   0.2   -10 -1.205011e+00   0.0195283714          -9.944262e-02
## 4189    21  -1.1   -11  1.401911e+01   0.3439513243           8.474100e-02
## 4190     0  -6.0    83 -3.179063e+00   0.6611570248          -1.194467e-01
```

```
## 4191    -13    4.5    -46  -3.106259e+00   0.3530674500        9.617380e-02
## 4192    -10    4.9     10  -3.121717e+00   2.1525252525       -2.320782e-02
## 4193    -11    9.4    -24  -6.761626e+00  -0.9729825494       -9.705776e-03
## 4194     -3    6.4     22  -6.559849e+00   0.4648618871       -5.291795e-02
## 4195      0   -2.4    -64   3.317949e+00  -1.0538461538        1.741489e-02
## 4196      3    3.4     26  -1.234451e+00  -0.1441169645        1.807330e-02
## 4197     -5   -0.1    -24  -2.123181e-02  -0.6954769638        9.976945e-02
## 4198      8   -1.4    -44   2.962963e+00   0.0726216412        1.342292e-01
## 4199    -13    0.1      5   3.028814e-01  -0.0527981346       -4.064844e-02
## 4200      0    7.3    -59  -1.292081e+00  -1.4250438340       -2.165587e-03
## 4201    -18   -2.6     80  -1.082583e+01   0.1332720588       -1.462402e-01
## 4202    -10    2.0     42  -2.034443e+00  -0.4077496587       -9.629704e-02
## 4203     -3    6.4    -47   1.070686e+00  -1.3287610619        1.122912e-01
## 4204      8   -3.3    -68   7.453778e+00  -0.7202723437        5.589105e-02
## 4205      5    2.4    -19  -4.891171e+00  -1.4321951220        6.246198e-02
## 4206      5   -1.8    -11  -3.441763e+00   0.6806338316        7.891585e-02
## 4207     23   -0.3     -2   1.114212e+01   0.0540647983        1.153406e-01
## 4208    -13    7.1     -6  -6.556246e-01  -0.7083505866        2.504049e-02
## 4209     -5    4.4     72  -4.162879e-01   1.7962121212       -3.921882e-02
## 4210     18    2.1     10   1.176824e+01  -0.3488833747        2.087707e-02
## 4211      0   -4.8     -1  -4.146289e+00   0.0316079131       -4.659643e-02
## 4212    -21    3.7     -8  -8.541329e+00  -1.0162974758        1.214806e-02
## 4213      5   -1.9     35  -1.448901e+00   0.6521978022        1.466824e-02
## 4214     -5    0.7    -62  -5.164018e+00   0.8962518741        9.902590e-02
## 4215     10   -7.0      7   2.922414e+00   0.4022988506        4.970314e-02
## 4216     -5    2.3     53  -3.742857e-01  -1.8042857143       -9.806484e-02
## 4217     18    3.2      3   1.270688e+01  -2.8760563380        1.007658e-01
## 4218      5    6.0    -43  -7.692308e-01  -2.4153846154       -1.585833e-02
## 4219     10   -0.4    113   5.980020e+00   0.3023643024       -2.281629e-02
## 4220      0    6.7     38   4.058529e-01   0.0225259915       -2.689679e-02
## 4221      5   10.8     -3  -3.785670e+00  -2.5383177570        4.096310e-02
## 4222     15   -0.1     24   1.232112e+01   0.2661782662        1.973145e-03
## 4223     -5   -2.1     11   7.777778e-01   1.1469298246        1.660571e-02
## 4224      2   -1.6   -103   5.937500e-01   2.2187500000        7.367791e-02
## 4225      8   -3.3    -66   2.918587e-02  -1.6036866359        1.342315e-03
## 4226     10    0.1     24   5.358763e+00   0.8662739323        1.250288e-01
## 4227      3   -2.4    -68  -2.500000e+00   0.9492753623        3.564652e-02
## 4228     -7    1.5    129  -1.673377e+00  -0.3220779221        4.383885e-02
## 4229      5   -3.4     29   1.912854e+00   1.8899782135        1.793182e-03
## 4230      0    4.5    -10  -1.273810e+00  -1.5119047619       -4.044167e-02
## 4231      2    2.2    -18  -6.961370e-01   0.6587017125        4.976317e-02
## 4232     -4   -1.7    -69   2.652778e+00  -0.9027777778        7.604064e-02
## 4233      2   -7.3    -92  -2.369231e+00   0.4587912088       -1.314872e-02
## 4234      3   -2.8    -27   3.391414e+00  -0.9983164983       -1.229550e-02
## 4235     -3    3.3    -14   2.416807e+00  -0.5747899160        5.929044e-02
## 4236     10   -2.7    -38   4.503630e+00   0.9274047187        3.349369e-02
## 4237     -3   -1.4     28  -6.066667e+00   0.3572413793       -4.010398e-02
## 4238     -7   -1.5    -29  -2.282350e+00  -0.2548267835        3.107849e-02
## 4239    -11   -0.3    -20   3.431034e+00  -2.2758620690        1.464905e-02
## 4240      6   -5.2     40  -1.210884e+00   0.4136054422       -1.212639e-02
## 4241      0   12.1    -28  -9.627792e-01  -2.5583126551        1.586132e-02
## 4242      8   -1.8     19   2.360580e+00  -1.3994726434        8.830701e-02
## 4243     -5    1.9     41   2.706765e+00   0.0021822149       -5.703889e-02
## 4244      5   -2.6    -55   4.399872e+00  -1.4051085568        7.547660e-02
## 4245      2    4.3    -74   1.821320e+00  -1.1368867353        4.118570e-02
## 4246      0    6.3    -41   7.733824e+00   0.7627450980        3.006389e-02
## 4247    -10   -9.6    -43  -9.356685e+00  -0.2043650794       -1.368911e-02
## 4248     18   -7.0    -67   3.861050e+00   1.0166297118        9.428613e-02
```

91

```
## 4249     -7   0.5  132  1.296835e+00 -0.8611392405    -2.341154e-02
## 4250     18 -10.5   31  2.790476e+00  0.2469047619    -5.234562e-02
## 4251     -2 -10.8   70 -1.198321e+00  2.3253698521    -1.195826e-01
## 4252     -5   0.7  -29 -3.066667e+00 -1.2416666667     6.024433e-02
## 4253     -5   0.6   38  1.809453e+00  1.2167098605     1.337343e-04
## 4254     -5  -0.4  168 -3.620269e-01 -2.0219780220    -7.379330e-02
## 4255     -3  -5.3  136 -3.462500e+00  1.4312500000     1.400732e-01
## 4256    -13   4.1   83 -2.242647e+00 -0.1783088235    -5.253167e-02
## 4257     -5  -1.4   74  3.975980e-01  0.9234242370     5.188038e-02
## 4258     -3  -2.8  124  1.334174e+00  0.6923076923    -5.592048e-02
## 4259     -6   3.6   85  1.562092e+00  1.4732026144    -1.582025e-02
## 4260     -2 -11.7   69  3.932609e+00  1.5023411371     5.259570e-03
## 4261      0   0.7  148 -4.606349e+00 -0.5047619048    -8.130547e-02
## 4262      0   2.5   41 -3.369857e+00  1.1247439955    -1.552310e-02
## 4263      7  -5.9   31  1.306082e+00  0.3373150685    -1.529001e-02
## 4264    -23  13.0  127 -9.489766e+00  0.0116959064    -1.121459e-01
## 4265     -5   3.5   67 -4.902932e+00  0.3412723616    -5.427133e-02
## 4266      3  -4.7  -69  4.191912e+00  0.6374917877     6.568264e-02
## 4267      0   1.5  -50  4.268105e+00  0.5295326143     8.300430e-02
## 4268     -7  -1.2   41  4.232456e+00  1.3201754386    -1.516227e-02
## 4269     28  -3.9  -30  1.333939e+01 -0.5166666667     6.340455e-02
## 4270     -7  -2.1  -50 -4.376358e+00  0.5812690135    -2.648967e-02
## 4271     -6  -0.7  -59 -3.449421e+00 -1.3413717507    -9.520534e-02
## 4272     -3  -0.6 -120 -3.639031e+00 -0.9049744898    -2.206974e-02
## 4273     -3   1.4  -55 -2.758768e-01  0.0801967494     3.213847e-02
## 4274     -5  -1.3  -26 -3.763020e+00  0.2942113151     4.157632e-02
## 4275      3  -1.6   39 -1.996995e+00  0.3743990385    -8.164222e-03
## 4276      0   0.0  -12  1.237377e+00 -0.4284712482     2.923532e-02
## 4277     10   0.3   28  3.177456e+00  1.4460132404    -7.753805e-02
## 4278     -3   1.1  -31 -4.154270e+00 -0.2848484848     9.705877e-03
## 4279     -8   2.4    7 -6.086403e+00 -1.5815523060     1.074568e-03
## 4280      5   1.8    8 -2.571837e+00  2.0866844993     5.015012e-02
## 4281     15  -4.4   20  1.715233e+00  0.5526315789    -4.389128e-02
## 4282     -8  -5.7   94 -1.931757e+00  1.3829943641    -2.460907e-02
## 4283      0  -4.4    9  1.859699e+00  0.7082438559    -4.084152e-02
## 4284      0   3.6    9  6.699346e-01  0.1041083100     2.523834e-02
## 4285     10  -1.5  -29  4.332510e+00  0.1240601504     2.508415e-02
## 4286     16  -1.6   -9  1.233861e+01  0.5578293560     5.363724e-02
## 4287    -18  -4.4  -67 -4.416930e+00 -0.4679588608    -6.147575e-02
## 4288      0   7.6   23  5.449134e-01  1.4751082251    -3.371084e-02
## 4289      3  -0.9  -16 -9.983319e-01  0.3711117653     3.273687e-02
## 4290     23  -6.5    6  4.973688e+00  0.0172675522     1.510436e-04
## 4291     -3  -1.6  -13 -9.544393e+00  0.4120847236    -8.357311e-02
## 4292      5   3.7   -4  8.767423e-01 -0.1642771804     5.935943e-02
## 4293      8  -6.9   92 -9.579504e-01  1.5082149819    -2.074094e-02
## 4294      7  -2.4   -9  2.622653e+00 -0.0043427230     7.308539e-02
## 4295      2   1.5   13 -6.923116e+00 -0.6342273308    -4.392646e-02
## 4296      7   3.5  -14  9.831361e-01 -1.5943786982     7.145121e-02
## 4297    -13   5.1    4 -1.243518e+00 -0.6746110559     5.456577e-04
## 4298     -3  -2.3   13 -6.453263e+00  0.1483508772    -5.267554e-02
## 4299     10  -2.9   -5  1.147479e+00  0.1840622065     1.746391e-02
## 4300     -3  -1.2   -4 -7.135294e+00 -1.0279411765    -1.618183e-02
## 4301     -3   3.1   20 -2.182337e+00 -0.6470108696    -6.976289e-02
## 4302     -2   0.0   -3 -3.251294e+00  0.4083419600     2.582452e-02
## 4303     -2   3.6  -83  4.860215e+00  1.4435483871    -2.032814e-02
## 4304    -12   7.3   35 -2.371062e+00  0.8941391941    -8.392210e-02
## 4305     -5  -1.2   23 -3.368972e+00 -0.3376865672    -5.328792e-02
## 4306      5   0.2  -37 -1.096226e+00 -0.4386792453     8.060699e-02
```

```
## 4307     5   -9.0    25  4.173891e+00  0.9914314516       -5.106402e-02
## 4308    10   -2.6    31  1.102238e+00 -0.2525710829       -6.538427e-03
## 4309    -2    3.7   -21 -1.250000e+00 -0.0909090909       -2.812448e-02
## 4310   -10   -4.0   -23 -9.991639e-01  0.7725752508       -1.823670e-02
## 4311   -10   -2.0    66 -4.415652e+00  0.0486956522       -4.648854e-02
## 4312    -2   -3.1   -37 -1.988971e+00 -0.8125000000       -1.189028e-02
## 4313     3   -1.3    30 -2.674242e+00 -2.8939393939       -9.588845e-02
## 4314     3    4.0   -13 -1.708333e+00  0.2333333333       -9.946993e-02
## 4315    13    0.2    57  5.383513e+00  0.7897252091        9.148445e-03
## 4316   -25   -3.4    54 -1.137534e+01  0.3575342466       -1.117611e-01
## 4317    -5    5.5   -41 -6.384615e+00  0.0192307692       -4.174217e-03
## 4318   -21    6.5   -13 -1.320878e+00 -2.4726502311       -3.744055e-02
## 4319     2    3.4   -44 -3.641117e+00 -2.0261865794        1.200114e-03
## 4320    15   -3.6  -127  6.067404e+00 -1.8327744243        1.651169e-01
## 4321   -10   -6.5   -53 -1.476023e+00  1.2493177388        5.595524e-02
## 4322     3  -10.6   -26  3.431373e+00  2.1542950514        3.420356e-02
## 4323    -3    3.2    58 -1.527836e+00  1.1681609675        2.512415e-02
## 4324    -5   -4.2    82  1.629310e+00  0.9712643678       -7.320076e-03
## 4325     3   -1.4  -314 -2.327501e+00  0.2700929470       -1.134060e-01
## 4326     5    1.3   -70 -4.717241e-01 -0.8379310345       -4.918202e-02
## 4327     8   -3.4   -56  1.552036e-01 -1.5063348416       -1.810580e-02
## 4328    -8   -4.5   -25 -1.164806e+00  1.5469216315       -8.801759e-02
## 4329     5    0.2   -81  8.003636e+00 -0.1249586777        8.129159e-02
## 4330    -8    2.1     2 -1.296296e+00 -1.7106481481        1.638452e-03
## 4331    13   -5.0    27 -2.524242e+00  2.0151515152        3.315465e-02
## 4332    -7    5.0    63 -7.692188e+00  0.1505208333       -5.301141e-02
## 4333    18    0.0  -107  1.045960e+01  0.3391662378        4.933421e-02
## 4334     0   -0.9   -12 -3.899522e+00 -1.0267942584        1.685434e-02
## 4335   -10   14.0    71 -3.946181e+00  0.1215277778       -1.029028e-01
## 4336     3    0.1   -20 -8.929280e-01  0.9553394391       -4.582983e-02
## 4337    18   -2.2    17  8.111111e+00  0.5384615385        5.261095e-03
## 4338    -5   -1.4    22 -8.210383e+00 -1.1135121709       -8.370895e-02
## 4339   -23    5.5   -17 -7.193548e+00 -1.5131964809       -3.992796e-02
## 4340   -10   -2.2   133 -1.260716e+01  2.3334547662       -9.371938e-02
## 4341     3   -4.5   -48 -1.237698e+00 -0.1007936508        3.733908e-02
## 4342    12   -5.9  -120 -2.931275e-01 -1.6980496866        1.059537e-01
## 4343    -7    2.2    27 -7.589286e-01  0.1666666667        1.315522e-02
## 4344    18   -3.6    -5  4.768831e+00 -1.1581181253        2.717175e-02
## 4345     8   -2.0    -6  1.920743e+00 -0.0342621259        1.059859e-01
## 4346   -21    1.1     6 -1.371784e+01 -0.2911120653       -9.743179e-02
## 4347    -8   -2.6   -59 -3.739130e-01  0.6132246377        1.765725e-03
## 4348    -5    6.2     7  3.090909e-01 -0.5787878788       -4.574902e-02
## 4349   -10   -9.2   -12  6.622026e+00  0.7466586474       -1.320001e-02
## 4350     5   -3.0    41  4.770000e+00  0.7066666667       -1.988374e-02
## 4351    12    7.1   -13  5.450961e+00 -1.5252525253        1.250366e-01
## 4352    15    1.7   -13  3.736551e+00 -0.1648489315        1.924720e-02
## 4353    -5    4.3     6  2.777903e+00  1.3861236802        4.082883e-02
## 4354    -7    1.0   -22  1.013551e+00 -2.7286211317        1.716737e-02
## 4355   -10   -2.0   -25 -7.841635e-01  0.2735206471       -4.442323e-02
## 4356    -2   -7.5  -302 -3.267614e+00  0.0346590909       -1.000206e-01
## 4357   -15    3.0    83 -3.804138e+00 -1.5310344828       -9.979589e-02
## 4358   -21   10.0    47 -1.077641e+01  0.7442525313       -9.458486e-02
## 4359    -5   -2.8    97 -1.958333e+00 -0.8250000000       -4.197793e-02
## 4360   -20    2.8    47 -3.785396e+00 -1.7720178372       -4.764895e-02
## 4361    10    5.8    -4  3.204615e+00 -1.1818181818       -6.448498e-03
## 4362   -10    6.7  -133 -2.311301e+00 -3.6268656716        1.444213e-02
## 4363    -5   -1.6   -44  3.921303e-01  1.2016282225       -5.014423e-02
## 4364   -10    4.7  -105 -1.068873e+00  0.0491949911       -7.629462e-02
```

```
## 4365     -5  -3.5    10 -4.868799e+00 -1.1688804554      9.534013e-03
## 4366     -7  -4.2    48 -3.174114e-02 -0.0292758089     -3.366909e-02
## 4367      0   2.6   -25  6.717391e-01  0.6878260870      4.338565e-02
## 4368      2   3.2    43  8.610047e-02 -0.5560876969     -9.818879e-02
## 4369    -13   4.0   -15  2.511538e+00  0.5653846154     -3.131794e-02
## 4370     12   0.2    -5  4.217245e+00 -1.7987122060      5.181344e-02
## 4371     13  -5.8    39  3.378709e+00  0.6970729751     -7.694526e-02
## 4372      3   1.2    26  4.598201e-01  0.1348325837     -2.484048e-02
## 4373     -2   0.6    -2 -5.367870e-01 -1.0728155340      1.452209e-02
## 4374      7   8.0   335  3.250924e+00  0.6422764228      8.189596e-02
## 4375      2  -3.0    15 -5.241167e-01  0.3600102407      1.312565e-02
## 4376      5  -3.5   -63  2.960983e+00 -1.0032567050      2.992862e-02
## 4377      5   0.3  -117  2.983607e+00  0.5491803279      1.090013e-02
## 4378      5   1.2   -38 -2.667497e+00  1.0563549161      2.209845e-02
## 4379     10  -1.6   -29  4.374263e+00  0.1406866721      3.053835e-02
## 4380      5   4.1    69 -5.239209e+00 -0.8618250152      2.023744e-02
## 4381     -3  -0.8    13 -4.976437e+00  0.5028735632     -1.385660e-01
## 4382      0  -6.3     5  3.397487e+00 -0.9186507937      3.592173e-02
## 4383      0   4.9    46 -1.426699e-01  0.7649223634     -8.284186e-02
## 4384     -8  -1.5    20  3.889102e+00  0.0713248724     -8.774394e-02
## 4385      2   0.8    10  3.764014e-01  0.0277500278     -1.679796e-02
## 4386     -5   5.4    27 -1.348261e+00  1.2042939937     -6.490404e-02
## 4387    -18  -4.3    10 -5.024251e+00  0.8487025023     -3.965002e-02
## 4388     -3   0.5    -7  1.539036e+00 -0.1975131516      5.315495e-02
## 4389      0  -1.5   -14  5.381366e+00 -1.7286749482      3.558239e-02
## 4390      0   0.4    14 -1.412266e+00  0.2851743600      8.005058e-02
## 4391     -2  -1.5    66  1.964504e-01  0.3828029376     -6.635956e-02
## 4392     -2  -0.1   -54 -2.451220e+00 -0.1028767980      9.600585e-02
## 4393     -6  -1.6    -3  9.558473e-02  0.1435504138      2.029029e-02
## 4394      5  -0.4   -10  5.548097e+00  0.1263054073      1.045111e-01
## 4395     -2   1.2    24  2.882450e+00  0.9589690136      2.320885e-02
## 4396     -8  -1.6    -6 -3.061335e+00  0.5242040660      5.148473e-02
## 4397      2  -1.5   -13 -1.476552e+00 -0.8979770115      8.128117e-02
## 4398     -3   0.9     1 -9.361446e-01 -1.3018932874     -1.945690e-02
## 4399     20  -2.4    13  2.267722e+00  1.4649789030     -3.802496e-02
## 4400      0  -4.9    71  2.840909e+00  0.9886363636      1.862052e-01
## 4401     12  -1.0   -91  1.518587e+00  0.3327188940     -1.202942e-02
## 4402     -5   5.6   -58 -6.332468e+00 -0.1116883117     -1.636146e-02
## 4403     20   2.7    10  3.458763e+00 -1.5840602696      3.260550e-02
## 4404     13  -2.6    42  4.418605e-01 -0.1201059759     -4.442083e-02
## 4405      7  -3.4    78  2.581336e-01  0.7799657534     -1.503803e-02
## 4406     -2  -6.2   111  3.676923e+00  3.4700854701      5.779204e-02
## 4407     15  -1.0    59  3.168421e+00 -1.9356275304      2.385271e-02
## 4408     -2  -2.0   -67  1.607601e-01 -1.2773497689      6.470134e-02
## 4409      0   5.6    17 -4.741071e+00 -2.5669642857     -1.037817e-02
## 4410      0   3.8   -17 -9.135472e-01 -1.1639928699      7.038525e-02
## 4411     -2  -2.4   -49 -1.397861e+00 -1.1643387167      5.983204e-03
## 4412     -3  10.8   -18  7.800866e-01 -1.7766233766      6.194996e-03
## 4413     10   1.8    14  2.519814e+00  0.7692307692      3.027803e-02
## 4414      8   0.3   -51  2.383914e+00 -0.5612414120     -5.543578e-04
## 4415      0   8.2   -90 -1.113787e+00  1.1976744186      5.221993e-02
## 4416      5   1.1   -90  1.386753e+00 -0.2967005706      4.941382e-02
## 4417     -3   4.1    51  3.090838e+00  1.6224469947     -6.570003e-03
## 4418      7   6.6   -48  1.135028e+00 -1.2050847458      2.043187e-03
## 4419     -5  -1.9    16 -4.462148e+00  1.7247652582     -7.844678e-02
## 4420     -3   3.5    55 -1.758258e+00  1.0435435435      1.255937e-02
## 4421      7  -2.6   -59  4.373626e+00  1.7472527473      1.017475e-01
## 4422     -5   3.2    46  2.696369e+00  0.0306801966     -2.550558e-02
```

```
## 4423    11   -7.1   -28  1.152067e+01 -0.2329093800        9.798367e-02
## 4424    -7   -2.6   -39  2.146333e-01 -2.8153587543       -1.360095e-02
## 4425     0   -1.2    10 -2.376784e+00 -0.3762257833        4.470556e-02
## 4426    -8    0.3     1 -1.700000e+00 -0.1444444444        2.558662e-03
## 4427     2   -0.1  -121 -1.160036e+00  1.1084990958        3.961655e-02
## 4428    12    3.2   -11  1.786017e+00 -2.3286840509        5.329939e-02
## 4429     3    3.0    76  2.629132e-01  2.4545454545       -9.254486e-02
## 4430    -5    2.3  -108 -1.669607e+00 -0.4460685484       -9.435410e-03
## 4431    -5   -2.4    45 -2.219168e+00  2.1242659150       -4.247864e-02
## 4432    18    2.9    94 -1.761954e+00 -0.5687472069       -4.834649e-02
## 4433    10    0.3   -46  1.458414e+00  1.6137975500        9.088389e-02
## 4434    13    4.4  -101  7.891667e+00 -0.2750000000       -1.017131e-02
## 4435     8   -1.3    53  4.597619e+00  1.6904761905       -5.950777e-02
## 4436    -5   -2.0   -38 -1.135391e+00  1.2560532688        4.064739e-04
## 4437   -15   -2.0    54 -1.041647e+01 -0.6348235294       -1.176736e-01
## 4438    -2   -4.7   142  2.913753e-01  1.0021367521       -8.316332e-02
## 4439    18  -11.9   -34  2.172316e+00 -0.9372253610        3.036869e-02
## 4440     5    1.8    68 -3.911876e+00  0.2632268632       -5.039580e-02
## 4441    11   -7.4   -57  9.572464e+00 -0.4621739130        9.435604e-02
## 4442    -2   -0.6     9 -2.978947e+00 -1.4440789474        3.711166e-02
## 4443     3    1.3    64 -1.166416e+00  0.0232732733       -6.029154e-02
## 4444     2    0.8  -109  4.570652e+00  0.3457880435        5.955771e-02
## 4445   -15    2.5   -12 -5.067571e+00  1.5513327901        3.295603e-02
## 4446    10    1.9    26  7.467695e-01 -0.2576663452        4.208742e-02
## 4447    -3    0.2    31 -7.733387e+00 -1.3256658596       -9.372929e-02
## 4448     0    1.4    63  3.512991e-01  1.0646189510       -6.898046e-02
## 4449   -13    5.3   -12 -6.331008e+00 -0.2874128091       -9.172725e-02
## 4450    -2   -0.5    50 -3.757339e+00 -0.9857601401       -3.224382e-02
## 4451     5   -2.0    -6 -3.144814e+00 -0.7232236683        2.538958e-02
## 4452    10    6.1     3  2.674988e+00  1.1469344609        5.205943e-02
## 4453   -13   -0.5   -10 -7.871766e+00 -1.4540382452       -1.593380e-03
## 4454     6   -3.6    21  6.463550e+00  0.0299567100        3.984833e-02
## 4455     3    2.6    18  1.657976e+00  2.7058504035       -4.183030e-03
## 4456   -21    8.7   -19 -1.080857e+01 -0.2680652681       -2.244197e-02
## 4457   -10    4.2     4 -2.674200e-01  0.6459510358        1.875924e-02
## 4458    -5    2.2    22  2.457875e+00  1.0049950050        1.808020e-02
## 4459     0   -2.6   -54 -4.138199e+00 -1.2080745342       -2.469127e-02
## 4460     6   -3.2    29  1.957516e+00 -1.7732026144        5.461400e-02
## 4461    13   -7.0     3  2.030556e+00 -0.4638888889       -6.160144e-02
## 4462     3    0.9   -42  5.280769e+00 -0.7151515152        2.805047e-02
## 4463    -8   -1.0    25 -1.136364e-01 -2.3579545455        1.700055e-02
## 4464     2   -3.8  -125 -1.041346e+00  0.3596153846        1.930759e-02
## 4465     3   -3.4    48  3.865942e+00  0.0688405797        4.347646e-04
## 4466     8   -1.6   -13  6.503513e-01  2.3505854801        4.264896e-03
## 4467    10   -3.7   -14  1.267748e-01 -1.2175456389        6.441734e-02
## 4468   -18    2.0   -48 -5.093333e+00 -0.0344444444       -3.935952e-02
## 4469    -7    1.5    55 -3.676543e+00 -1.7358024691       -3.420512e-02
## 4470     2   -1.7    57  3.155603e+00  0.1105482982        1.354174e-02
## 4471    10    4.0    58 -7.851852e-01 -1.0689458689       -6.210293e-02
## 4472    -3    4.6   228 -5.504202e-01  1.8382352941        8.141882e-02
## 4473    11    2.4    68  7.866667e-01  1.8800000000       -8.188490e-02
## 4474     3   -5.4    22 -8.505495e-01 -2.1846153846       -3.672200e-02
## 4475    -5    8.1   -20 -2.427627e+00 -1.9988662132       -8.491030e-03
## 4476     8    4.5    -3  7.920032e+00  0.4750099960        1.704549e-02
## 4477    -5   -2.8   -74  4.000000e-01  1.7285714286        3.173959e-02
## 4478    25  -11.7   -33  4.188636e+00 -0.1954545455        3.104518e-02
## 4479     8   -1.0   116  1.189869e+00  0.3251633987       -7.935687e-02
## 4480     8    9.4   -31 -1.307018e+00 -2.4956140351       -9.675735e-02
```

95

```
## 4481     5    0.1   -21  6.250000e+00 -0.1500000000         5.483185e-02
## 4482    -5    1.9    -1 -7.777778e-01  1.2085769981         2.416418e-02
## 4483    10    4.8   -23  3.146216e+00 -0.9547018349         1.109746e-02
## 4484     3    4.4    35 -1.158333e+00 -0.2011904762         2.201899e-02
## 4485    20   -4.4   -78  6.723404e+00 -1.2188449848         1.253724e-01
## 4486     0   -7.0  -129  2.975210e+00 -1.2058823529         4.324978e-02
## 4487     2    4.0    25 -1.758571e+00 -1.7528571429        -6.791482e-02
## 4488    -8    1.7   -64 -1.797839e+00  0.6102987921        -1.985412e-02
## 4489   -13   -0.5  -120 -5.136494e+00 -1.3115421456         1.050604e-02
## 4490    -5   -6.6    83  7.563025e-02  0.1176470588        -6.093094e-02
## 4491     0   -3.5  -210  7.572590e-01 -0.2282229965         1.054087e-01
## 4492   -10    1.5    79 -3.896445e-01  0.0682414698        -5.275564e-02
## 4493    -8    6.0   -21 -4.024610e+00 -0.4704460558        -6.025755e-03
## 4494    -5    5.4   -17  2.597030e-01  1.2882163374        -3.057497e-02
## 4495    13    2.1   -75  3.142857e+00  0.4714285714        -3.347964e-02
## 4496    13   -8.3   -45  3.826165e-01 -1.1980286738         4.367460e-02
## 4497    12   -4.9    50  2.565359e+00  1.5129976233        -2.747778e-02
## 4498    10    2.9  -117  1.088406e+01 -0.1221532091         1.329562e-01
## 4499    -5   11.2    44 -3.125776e+00 -1.0065217391        -1.125964e-02
## 4500    -7   -0.8    28  3.400617e+00  0.9731481481         3.609616e-02
## 4501     2   -4.5   -64  2.301099e+00 -1.1280219780         6.090941e-02
## 4502    -5    4.3   -52  4.640483e+00  1.1857954545         8.135749e-02
## 4503   -16   -0.5   -41 -5.055861e+00 -0.3998778999        -1.174363e-01
## 4504   -23    7.8    57 -4.580587e+00  1.0212251941        -7.999255e-02
## 4505     5    7.2    95  3.211823e-01  0.8650246305         2.955839e-02
## 4506   -11    7.8   -52 -4.514035e+00 -2.1960526316         3.689620e-03
## 4507     7   -2.0    21  3.274388e-01  0.3115040808        -1.003294e-01
## 4508   -15    6.3    12 -2.875191e+00  0.0403963415        -4.867702e-02
## 4509    13   -6.4    67  2.244663e+00 -0.7910509031        -9.153830e-02
## 4510    16   -1.8    88 -1.913760e+00  1.2641254393        -1.186278e-01
## 4511     3    0.8    16  9.999231e+00  0.9277339996         5.314396e-02
## 4512     5  -11.1    17 -5.221950e+00 -1.2758057936        -4.991430e-02
## 4513   -16    3.3   -58 -6.335284e+00 -1.4941471572        -3.132465e-02
## 4514   -15    3.4    10 -1.689833e+00  0.3070000000         1.068959e-02
## 4515    10  -10.5  -110 -3.714470e-01 -1.0297157623        -1.110637e-03
## 4516    10   -2.2    -3  1.321022e+00 -1.1112825458        -2.197093e-02
## 4517     3   -1.6    24 -2.125947e+00  0.3167613636         8.812751e-04
## 4518   -10   -2.1    18 -4.750390e+00 -1.1585284281        -2.771369e-02
## 4519    -6    5.2   -50 -3.320935e+00 -2.3286585366         1.167306e-02
## 4520   -13    2.2     6 -2.647237e+00  0.2803658631        -2.810341e-02
## 4521    20   -5.0   -10  7.325955e-01  0.2162147205        -5.091095e-03
## 4522    13    4.0   -34 -2.077986e-01 -1.3640141792         5.937210e-03
## 4523   -15    4.1    45 -4.873016e+00  0.0361552028        -9.384288e-02
## 4524     5   -0.3   -17  5.246879e+00  1.0002958755         7.372315e-02
## 4525    -5   -2.4    35 -2.240975e+00  2.0960396040        -4.572461e-02
## 4526    -5   -2.1   -53  3.290985e+00 -1.0974370305         3.837130e-02
## 4527     2   -2.8    92 -7.442308e-01  0.1673076923        -3.718612e-03
## 4528    16   -9.0   -20  1.089402e+01 -0.9099205181         9.085024e-02
## 4529   -10   -3.5    20 -5.432143e+00  1.1750000000        -6.833804e-02
## 4530     3   -1.5    51  1.160385e+00  0.4150012649        -5.023575e-02
## 4531    -5    2.3   -40  3.971430e+00  0.7578402517        -2.885768e-02
## 4532    -7    3.2     9 -5.491121e-01  0.2766370699         2.167783e-02
## 4533    -8   13.9    -5 -1.627347e+00  0.7311369068        -3.854791e-03
## 4534    23   -7.8   -42  3.491963e+00 -0.5972196363         4.835544e-02
## 4535     8   -4.9   -13  4.266837e+00  0.2353741497         4.481898e-02
## 4536     0    2.8    17 -6.903715e+00  0.1893939394        -5.089923e-02
## 4537     0    3.7    25  3.804194e+00  1.0029032258         7.406126e-02
## 4538   -10   -6.3   -21  8.886159e-02  1.3153153153         2.698683e-03
```

```
## 4539     25  -3.1    -7  7.908449e+00 -0.0837326608    -2.072713e-02
## 4540      2  -3.4    28  2.322994e+00  1.4371955909     1.760756e-02
## 4541    -15   2.9    11 -2.141518e+00 -1.4462053571     5.007557e-02
## 4542      0   2.8   -26 -1.103267e+00  2.3660012099     7.598475e-02
## 4543     -5  -4.2    20  1.088034e+00  0.5289377289    -5.804895e-03
## 4544    -30  -2.2    -6 -1.470174e+01  0.5994208494    -6.983912e-02
## 4545      3  -1.8  -136 -5.641887e-01 -0.1843142982     1.010454e-01
## 4546      0  -3.8   -12  6.266505e-01 -0.0828588734     7.267108e-02
## 4547      5   1.6    82 -1.027298e+00  1.5982900763    -1.074884e-02
## 4548    -10   6.3  -123  4.038655e+00 -0.5201680672    -3.952229e-02
## 4549     11  -9.4    20  6.342771e+00  0.9477409639     2.249714e-03
## 4550     -8  -0.4   -12 -2.668716e+00 -0.1196217494     1.998881e-02
## 4551      7  -0.7    16 -4.255619e+00  0.0585224744    -4.670968e-02
## 4552     10   3.4    20  8.773959e-01  0.8414849086    -4.925313e-02
## 4553     -8  -3.4    12 -8.998682e+00  0.1330698287    -5.077756e-02
## 4554    -15   6.2    23 -3.905425e+00  0.5300586510    -7.433088e-02
## 4555     10   4.8    12 -3.957053e+00 -0.6449924812    -6.133919e-03
## 4556     -5  -7.0    56 -4.001694e+00  1.1673547158    -7.545433e-02
## 4557     -7   0.7   -28 -2.667894e+00 -0.3825740144     4.525792e-03
## 4558      8  -3.2   -63  3.693350e+00  0.9015095879     9.607947e-03
## 4559     -3   0.0    37 -2.248891e+00 -1.5035693614    -5.833893e-02
## 4560     -7   5.0    52 -6.553562e-01  1.4938639808    -3.527897e-02
## 4561     -5   2.2    20  1.952753e+00 -0.3515625000     5.005448e-03
## 4562      3  -0.5     4 -1.798678e+00  0.0892972276    -4.265952e-02
## 4563      0   4.9   -15  2.368572e+00 -0.8951215217     5.539975e-02
## 4564     -8   3.3    -7 -4.577997e+00 -0.0342137450     8.367583e-02
## 4565      0   0.0    11 -1.039925e+00  0.5164661654    -2.221175e-02
## 4566      8   3.6   -15  2.022808e+00 -0.3416018499     8.443902e-02
## 4567      3   1.0    -7 -8.802885e-01 -1.4961538462     1.879549e-02
## 4568     -3  -2.5   -17 -1.578231e+00 -2.6773940345     1.067570e-02
## 4569      8  -2.9    -7 -2.243229e+00  0.5554212851     5.598776e-02
## 4570    -10  -0.7     3 -4.493254e+00  0.6376984127    -2.395850e-02
## 4571     18   0.2    -9 -4.023469e-01 -0.7504950495     8.225232e-02
## 4572      8  -1.8   -12  2.410358e+00 -1.9193805607    -1.929078e-02
## 4573      5   2.9    -5  1.027434e+00 -0.7627756859     8.282676e-02
## 4574     -2   3.0    -4 -5.315904e-01  0.1732026144    -4.591410e-02
## 4575    -11   4.1    -4  2.289426e-01 -0.7978347167     7.680168e-02
## 4576     -5   4.9    19 -1.820966e+00 -0.8336419313    -6.525762e-03
## 4577     -5   0.7   -12  2.294471e+00  0.8328122429     2.441321e-02
## 4578      7   0.9   -84  6.033058e-01 -1.3305785124     2.947390e-02
## 4579      8  -8.3   -49 -2.187830e-01 -1.0896856676     7.554370e-03
## 4580     -5   5.5   -33 -2.404235e+00 -0.1575126050     1.010601e-03
## 4581    -10   4.4    47 -7.765382e+00  0.2474672597    -6.437739e-02
## 4582      5  -4.1    64  7.130435e-01  2.3507246377    -7.088971e-02
## 4583     20  -6.3   -12  7.737327e+00  1.2165898618     4.210680e-02
## 4584    -15   3.3    30 -6.063729e+00 -1.0207032154     2.901792e-02
## 4585     28  -1.5   -14  9.695240e+00  0.0840348997     4.539632e-02
## 4586     -2  -2.6    13  1.818703e+00 -0.3863354037    -1.422197e-02
## 4587      7  -2.0    20  2.455703e-01  0.3153377630    -1.064840e-01
## 4588      8   4.9    -2 -3.291601e+00  1.3528918279     4.930406e-02
## 4589      8   2.6    49  2.407464e+00  0.8542722053     2.348975e-02
## 4590      0   4.5   -37  2.192982e+00 -1.3834586466     2.446153e-02
## 4591      2  -5.0    -9 -4.156684e-01 -0.1302167493     4.200115e-02
## 4592     -5   0.5   -48 -2.262553e-01 -0.4488808227     5.620341e-02
## 4593     -8   6.0     3 -1.112853e-01  0.6055381400    -3.723906e-02
## 4594     -2   0.9    41 -2.051345e+00 -3.8794998105     1.984076e-02
## 4595    -13   6.2   -43 -7.507569e+00 -1.2157761231    -8.230033e-02
## 4596    -15   3.1   -10  8.690079e-01 -0.4762071993    -5.417976e-02
```

97

```
## 4597    -2   4.6   -9  7.475589e+00  1.2954545455    1.336070e-01
## 4598     5   2.0   -4  4.497399e+00 -1.5728291317    7.348171e-02
## 4599     6  -7.3   -7  1.040812e+01  0.5108662381    7.274464e-02
## 4600     5  -5.4   31  1.137255e+00 -0.5862745098   -4.398014e-02
## 4601     0   5.3   10  1.765448e+00  0.8029634300    2.560287e-02
## 4602   -15   6.2   25 -3.807845e+00  0.6014957265   -7.226757e-02
## 4603     5  -0.8   24 -2.363636e+00  0.0069930070   -5.238702e-02
## 4604     2   1.5  -36  4.784962e+00 -1.0042606516    1.378089e-01
## 4605    10  -6.5  -33  5.908200e+00  2.2927807487    2.494786e-02
## 4606    16  -1.2  -20  1.151474e+01  0.2804274466    1.105257e-01
## 4607     3  -0.7   12 -3.092949e-01  0.2271367521    6.616040e-02
## 4608    13  -1.7   10  1.772891e+00  2.0338858195   -3.354163e-02
## 4609    -5  -1.6  -73  1.028147e+00 -1.5983076742    1.558733e-02
## 4610    -2   4.5   74 -2.372464e+00  1.0927536232   -7.922937e-02
## 4611    10  -5.4  -38  4.406607e+00 -0.9577062011    5.075771e-02
## 4612     6  -3.3  -47  2.869300e+00 -2.8756627784    3.182557e-02
## 4613    15  -2.1   76  3.004988e+00  1.3496732026    6.790322e-02
## 4614   -12  -1.1   19 -8.989044e-01  2.1746682106   -1.028748e-02
## 4615     5   2.7   25  2.377049e-01  0.3961748634   -2.685201e-02
## 4616     3  -3.2  -14  2.231351e+00  0.6044786764    7.374963e-02
## 4617    10  -3.4    4 -2.475595e+00 -0.4557539683   -6.240276e-03
## 4618    -2   1.5   45 -5.366279e+00 -0.0348837209   -1.321261e-01
## 4619    -7  -1.1  -10  1.950740e+00  0.2485090649    9.620589e-02
## 4620     8  -2.8    6  1.623972e+00  0.1880748881   -9.890644e-02
## 4621     5  -1.0  -18  2.161066e+00  0.0117853086    1.121567e-02
## 4622   -13   0.1    6  2.733263e-01 -0.1200845666   -3.313577e-02
## 4623    -5  -0.1  -23  2.154150e-02 -0.7179841897    1.128765e-01
## 4624     0  -2.1   -4 -5.862951e+00  0.2715717723   -4.535139e-03
## 4625     5  -2.5   28 -3.367254e+00  0.7117892190   -1.170062e-01
## 4626   -10   4.2  -16 -2.122560e+00 -0.2411397346    3.209901e-02
## 4627   -11  -0.7   -4 -3.991436e+00 -0.7935525887    2.949895e-02
## 4628     3  -5.8   -1 -3.267092e+00  1.2914756495   -3.736483e-02
## 4629    10  -4.2   -3  2.440393e-01 -0.6299088359   -1.875673e-02
## 4630     3  -1.0   -2  9.656402e-01  1.2630462843    6.083582e-03
## 4631    -5  -3.1  -21 -2.273866e+00  1.4479295810   -5.543855e-03
## 4632   -10   6.5  -23 -2.688367e+00  0.2345475911    8.185772e-02
## 4633    -3   2.8    9 -3.345307e+00  0.8663793103    1.501548e-02
## 4634   -15  -0.2  -16 -7.133694e+00 -1.6336145154   -7.438646e-02
## 4635     8  -5.0  -35 -1.248281e+00 -0.4656266526    1.635657e-02
## 4636     0   3.2   16  1.031868e+00 -1.7362637363    1.495874e-02
## 4637    15  -0.6   19 -1.198907e+00  0.2506307822   -2.994160e-02
## 4638     8  -5.4  -17  3.730457e+00  2.1019387117    3.253047e-02
## 4639     7  -7.1   -5  4.222042e+00  1.3265720081    2.028300e-04
## 4640    -5  -1.5  -20 -3.851437e+00  0.9485632184   -3.926828e-02
## 4641   -13   6.1   -1 -3.073240e+00 -0.7543995859   -2.759120e-02
## 4642   -21   4.8   69 -9.509994e+00 -0.5275306254   -8.849825e-02
## 4643   -10   5.2   11 -3.428750e+00  1.2134541704    4.851527e-02
## 4644    10  -4.9  -27  1.935484e+00  0.3225806452    3.149452e-02
## 4645    -5  -2.6  -20  3.276836e+00 -0.1162900188   -4.479313e-03
## 4646    -5  -1.7  -69  3.863150e+00 -0.3343930636    3.931287e-02
## 4647    -5   7.9  -26 -4.077479e+00 -1.3770661157   -2.172819e-02
## 4648     5  -6.3   83  7.854747e-01  1.4149896801    2.076163e-02
## 4649   -28   3.9   42 -1.313170e+01  0.5473094980   -7.772377e-02
## 4650     5  -1.4  -47  4.113389e+00 -0.3387698043    4.322367e-02
## 4651    -5   3.0  -58 -1.645866e+00 -0.4603326553   -1.718516e-02
## 4652     0   0.6   -2 -2.954410e+00  0.1351552795   -1.554488e-02
## 4653     5   9.4  -43  1.919414e-01  0.0197802198    2.430319e-02
## 4654    -8  -1.0    1 -2.006739e+00 -0.6711590296   -1.983564e-02
```

```
## 4655    -3    4.0     13 -2.833333e+00 -0.9137254902           -5.351281e-03
## 4656    -5   -5.0    -12  7.995169e-01  0.0861513688           -3.682398e-03
## 4657     3   -8.4     42  1.662607e+00  0.5104631218           -6.691454e-03
## 4658   -18    1.1     53 -4.800684e+00  0.6532648988           -7.024469e-02
## 4659     5    1.5    -23  3.918054e-01 -0.3674775928           -1.088502e-03
## 4660    10    2.0    -31  9.340049e+00 -1.1378579003            1.481327e-01
## 4661    -5    0.2     47  9.474085e-01  1.0144817073           -3.756264e-02
## 4662     2   -1.1    -38  4.431395e+00 -0.5669583119           -1.919349e-02
## 4663     2   -0.6    -19  4.641134e-01 -0.1595601003           -3.391974e-02
## 4664    16   -1.3     -1  7.576531e-01  0.0943877551            1.473506e-02
## 4665    10   -1.1    -44  1.565041e-01 -0.7176490515            8.657006e-03
## 4666    -8    3.2     56 -1.724268e+00  1.0335718933            3.500910e-03
## 4667     3   -2.4     -4  4.285020e+00  0.6431727795           -1.627078e-04
## 4668    -8    7.2     -5 -4.092695e+00  0.5535634815           -7.502478e-03
## 4669    -7   -1.3     40  4.071422e+00  1.3486265060           -7.690857e-03
## 4670    -3    3.3     26 -4.534373e+00 -1.5231388330           -5.453057e-02
## 4671     0    1.1    -70 -1.055153e+00 -0.2371175523            2.510461e-02
## 4672     0   -0.5    -19  4.042267e+00 -0.4066227890            2.240943e-02
## 4673    -5   -0.5      8 -8.790323e+00  0.6966845878           -1.320391e-01
## 4674    13   -2.6    -30  4.549972e+00 -0.1898354543            7.405176e-02
## 4675    -8    3.1     22  4.200235e+00 -0.5009411765            5.335001e-02
## 4676     0   -5.8    -96  1.759219e+00  1.4664224664            5.017218e-02
## 4677     8   -6.0    -77 -2.530100e+00  1.4122073579           -8.826778e-02
## 4678    10    0.9     82 -6.432806e-01  0.3639657444            1.566697e-02
## 4679    12   -2.7    -22  1.657660e+00 -0.8188106012           -3.571608e-02
## 4680     7   -0.7     40  5.192500e+00  2.0275000000            2.649535e-02
## 4681     3    4.3    -68  5.954545e+00  0.5000000000           -6.282745e-02
## 4682    10    0.3    -45  1.329383e+00  1.7443360056            9.234871e-02
## 4683     0   -7.4     44  1.636691e+00  1.3482014388            2.919696e-02
## 4684   -18   -4.5   -110 -3.378535e+00  1.5050567595           -3.910554e-02
## 4685    10   -1.5    -54  5.681613e+00 -0.5563063063            1.245574e-01
## 4686     5    1.8    -38  1.547242e+00 -0.2925181279            2.543079e-02
## 4687     5   -1.1    108  1.116442e+00 -1.6253369272            1.169322e-02
## 4688    10    2.4     27  2.123529e+00 -0.7764705882           -8.171842e-02
## 4689    -3   -5.9    155 -5.835616e+00  0.5479452055           -9.434302e-02
## 4690    -5   -4.8     75 -5.848431e+00  2.1402341920           -1.249836e-01
## 4691     2    3.1    -52  1.535581e+00 -0.2911985019            4.537959e-02
## 4692    -2   -0.6    -56  2.510352e+00 -1.8923395445            6.298345e-02
## 4693    -5  -12.1     82 -1.630205e-01  0.7106563162            1.005473e-01
## 4694     5   -5.4    -93 -2.667416e+00  0.2936031984            3.319081e-02
## 4695   -10    0.1     55  4.936461e-01 -0.9472140762           -3.553761e-02
## 4696    -8    0.6    139 -6.582090e+00 -1.5481988553           -7.641370e-02
## 4697    23   -7.9    -56  4.330341e+00 -1.1370967742            7.325598e-02
## 4698    -5    6.5    -19 -4.824390e+00 -1.6097560976           -3.930990e-02
## 4699    25   -2.1    -46  8.743724e+00 -0.7153103448            8.517248e-02
## 4700     2    3.1    -15  4.362286e+00 -0.7397365196            9.252952e-02
## 4701    21   -0.5    -88  4.952297e+00 -0.6913951546            6.104599e-02
## 4702    10   -5.6     58  3.496353e+00  0.4744744745           -7.030618e-02
## 4703    -8    1.3    -31 -4.502132e+00 -1.8073916134            6.138954e-02
## 4704     7   -2.3    -34 -1.113953e+00 -0.4552667579           -4.254893e-02
## 4705    -2   -2.5    -66 -8.696288e-01 -0.6079865017            3.396885e-03
## 4706    10   -2.3    177  2.682625e+00 -0.3745173745            5.744168e-02
## 4707   -13   -2.8    -64  1.977133e+00  0.4254893095           -1.365287e-03
## 4708    -5   -3.4    -31 -6.940991e+00 -0.9675675676           -9.343505e-02
## 4709    -5    1.8    -36 -2.943600e+00 -0.0289304500           -4.921689e-02
## 4710    -3    5.5    126  4.250684e+00  2.8702791461            1.613559e-02
## 4711     3   -4.0     -2  9.512557e-01 -1.2581050228            3.408145e-02
## 4712     0    2.0    -37 -1.305729e+00 -0.6467804631           -1.454418e-02
```

99

```
## 4713     10    1.0    -64   3.874592e+00  -0.3970588235         7.191724e-02
## 4714    -18    3.3    -63  -4.027027e+00  -1.3167879418        -4.340233e-02
## 4715      8   -3.5     -5   3.187491e+00   0.5223367698         2.158364e-02
## 4716     -7   -1.7    -30  -3.782407e+00  -0.6435185185        -7.686328e-02
## 4717      5   -5.7    181  -3.470588e+00  -1.4941176471        -4.348241e-02
## 4718    -10    4.1    -50   8.388158e-01  -0.5032894737         1.106540e-01
## 4719     20   -6.3     -1   4.094449e+00   1.0064543890         2.696762e-02
## 4720     -7   -5.8     -2   5.320009e+00   0.6847603906         4.836751e-03
## 4721      0    3.7     73  -4.832149e+00   1.2418443594        -3.646459e-02
## 4722     -3    6.1   -135  -5.717742e+00  -3.2379032258        -4.185849e-02
## 4723    -13    2.5    -42  -3.540541e+00  -0.9324324324        -1.038740e-01
## 4724     -3   -6.3    -26  -3.673077e+00   1.6076923077         4.272857e-03
## 4725    -13   12.9     52  -1.160681e+01   2.2325483600        -1.470291e-01
## 4726      5    1.8    -90  -1.342417e+00  -1.0979154714         4.629239e-02
## 4727     25    7.2   -133   1.377277e+01  -0.8235460993         1.986083e-01
## 4728     -8    4.9     59  -2.989642e+00  -0.1346516008        -1.442216e-02
## 4729      2   -0.7   -109   3.277282e-01   0.3071379547         1.142978e-01
## 4730      0    0.2     98  -6.007012e-01   2.0245406190        -1.634879e-01
## 4731      7    3.8    -28   8.500294e-01   0.3298884322        -5.120335e-03
## 4732     -5   -0.5    -38  -9.521053e+00   0.9891812865         9.444019e-03
## 4733      3    0.8    -15   4.984101e+00  -0.6964285714         1.361117e-01
## 4734     15    1.2    -17   5.472585e+00  -1.8090414081         8.626050e-02
## 4735     -5   -5.5     86  -7.222222e+00   0.7244897959        -8.689327e-02
## 4736     -7   -3.5     89  -5.855332e+00   2.3317307692        -1.174010e-01
## 4737     -7   13.0     30   7.070218e-01  -1.4406779661        -1.172939e-01
## 4738    -10    1.2    107  -2.731539e-01  -3.2027534418         5.718641e-03
## 4739    -10    4.8     73  -3.850467e+00   0.4388072986        -1.138424e-01
## 4740     15   -8.6    -17   4.529739e+00   1.2362745098         7.650307e-02
## 4741     15   -1.0    -74   4.500794e+00   0.5317460317        -2.193753e-02
## 4742     -6    5.4     50   7.524836e-01   0.8665048544         2.564947e-02
## 4743     21   -7.1     63   4.430608e+00   2.5186296574        -9.530942e-02
## 4744      7   -4.8      9   2.486530e+00   0.0761494253        -2.210412e-02
## 4745     21   -3.3   -250   1.027083e+01  -1.3541666667         5.277750e-02
## 4746      5   -7.8    -29  -9.210526e-01  -1.2631578947        -5.437178e-02
## 4747     -3    4.9    -67  -3.740750e-01  -1.3907853903         4.444029e-02
## 4748      5   -4.9    -21   1.743414e+00   0.7466425620        -1.517837e-03
## 4749     -5    5.8     44  -4.101573e+00  -0.1295005807        -8.372590e-02
## 4750     -8    2.7    -47  -6.940830e-01  -1.8077660594        -1.083342e-02
## 4751      0    1.0    -57   2.915952e-02   0.1216123499        -2.783210e-02
## 4752     10   -3.6     36  -4.676346e-01   1.1702359347        -2.731811e-02
## 4753      0   -0.2    -29   7.579368e-01  -0.6884850313        -2.786290e-03
## 4754     11   -1.3     64   4.511789e+00   1.3113684211         6.529996e-02
## 4755    -21    3.2    109  -9.775387e+00   1.9122203098        -1.013434e-01
## 4756      7    2.6   -157  -3.297244e-02  -1.3167650919         1.240845e-01
## 4757     -3    0.2    -41  -2.766262e+00  -0.2866479925         9.189676e-02
## 4758      2   -0.3      9  -5.319370e-01  -2.0291146762        -6.220412e-02
## 4759      0    0.3     -9  -1.541442e+00  -0.1427966550        -9.780447e-02
## 4760    -10   -2.1     40  -7.645681e+00   1.7690073251        -1.349883e-01
## 4761     -5    0.5    -86  -1.597458e+00  -2.2316384181         8.477572e-02
## 4762     10    8.6    -60  -9.473684e-02   1.0842105263        -1.022038e-01
## 4763      0    0.0    -15   8.664504e-01  -0.5449445796         2.491986e-02
## 4764     -7    0.6    -27  -2.869783e+00  -0.4480451504         1.219189e-02
## 4765      8   -0.2     24   9.288231e-01   0.5340546367        -8.067365e-02
## 4766     -5    4.2    238   2.109304e+00   1.5541736427         1.012885e-01
## 4767     -3   -8.2    -92  -1.801865e+00  -1.1934731935         5.145441e-04
## 4768      2    0.5    -46   3.680592e+00   1.0381279746         3.122690e-02
## 4769     -5   -2.5    -23   4.635514e-01  -1.4167601246         2.169236e-02
## 4770     -5    1.7    -49   1.842131e+00  -1.2974378732        -2.194258e-02
```

```
## 4771    11   -6.7     7  1.186111e+01  0.3214285714      9.715689e-02
## 4772    -2    0.1   190  3.729323e-01  1.7415682062     -1.658508e-01
## 4773     2    3.2    24  9.018332e-02 -0.5388189575     -8.211889e-02
## 4774    -5    0.0    16 -3.772160e+00  0.0007954263      5.358550e-03
## 4775    -5   -9.4   106 -3.189607e+00  2.4311797753     -8.523719e-03
## 4776    -2    3.0    -2 -2.705367e-01  0.2161763155     -2.991453e-02
## 4777    15   -4.0    17  3.305338e-01  0.1761851437     -1.312153e-01
## 4778     5   -0.9   -16  2.007479e+00 -0.0026709402      1.038807e-02
## 4779     3   -1.2     5  1.033517e+00 -0.0332965416     -7.830405e-03
## 4780     0   -2.2   -13  1.156244e+00 -0.6625716288      6.710061e-02
## 4781     0   -2.1    -4 -5.735047e+00  0.2370577281     -7.903429e-03
## 4782    13   -7.2     6 -1.980701e-02  0.6041137633     -4.232762e-02
## 4783    15   -5.1    -2  4.248138e+00  0.2614498029     -2.140982e-02
## 4784    -2    0.8    11  4.437011e+00  0.7113547422     -6.196124e-02
## 4785    -3    5.8     2  3.350000e+00 -1.2277777778      4.194186e-02
## 4786    10   -4.2    -4  2.500409e-01 -0.6804745023     -9.611679e-03
## 4787    -3    0.9     1 -1.024121e+00 -1.2351483739      9.823079e-03
## 4788    -2   -1.3    28 -5.350577e+00  0.3130833729     -5.642721e-02
## 4789    -5    0.8    -5 -1.305108e+00 -2.7916666667     -1.964034e-02
## 4790     5   -8.9   -55  6.785714e-01  1.3595238095     -6.426797e-03
## 4791   -18    1.1  -129 -5.771233e+00 -1.7652968037      4.369089e-02
## 4792   -15    4.6    91 -3.288889e-01  0.2770370370     -5.126812e-02
## 4793   -13   -0.7   141 -4.025521e+00  1.1125000000      4.739414e-02
## 4794     5  -14.5   -60 -1.665385e+00 -1.5423076923     -2.280381e-02
## 4795    20   -2.2    -5  5.514416e+00 -0.8716247140      3.870537e-02
## 4796     0    1.3  -168  5.844482e-01  0.1715719064      2.949565e-03
## 4797    -5   -6.2   -10  1.261538e+00 -2.2410256410      1.757619e-02
## 4798    -5    5.2     2 -5.531886e-01  0.8416553596      3.665888e-02
## 4799    -7    2.9    32 -5.792698e+00 -2.7561881188     -8.173133e-02
## 4800     0    7.7   -41 -1.452632e-01 -0.8098245614     -2.397199e-02
## 4801    -7   -4.5    -5 -4.366071e+00  2.0982142857     -1.368423e-02
## 4802     7   -4.8     9  2.501224e+00  0.0243006993     -2.124834e-02
## 4803    11   -6.8  -123  7.041486e+00 -0.3083591331      9.100464e-02
## 4804    13   -8.5    64  5.551515e+00  0.6555555556     -2.984659e-02
## 4805   -15   -4.2   173 -1.622396e+00  0.4331597222     -4.435599e-02
## 4806    -3   -4.2   316  4.622093e-01  1.4643895349      1.895013e-03
## 4807     0    1.4   -56 -3.169231e+00 -1.0820512821      7.089183e-02
## 4808     0    0.6    32  1.130468e+00 -0.1990950226      4.991589e-02
## 4809   -12   -1.4   -16  1.594572e+00 -2.6971737148      5.206397e-02
## 4810     2    4.0    52 -1.998008e+00 -1.8887229276     -7.456041e-02
## 4811     3    0.4   -26 -6.206244e-01 -0.1790350047      8.734182e-03
## 4812    -5    0.3    63 -5.059394e+00 -0.9278787879     -4.914704e-02
## 4813    -2    8.0    65  3.561606e+00  1.2937342304      9.505276e-02
## 4814    28    2.0  -149  1.107001e+01 -0.9940417080      1.023403e-01
## 4815     2   11.9   -52  8.220721e-01 -0.2909909910      2.454894e-02
## 4816     0    1.8    43 -1.163482e+00 -1.8309300649     -4.786885e-02
## 4817    -3   -6.4   -11  4.268005e+00  0.1703728289     -3.742980e-03
## 4818    11   -4.5    68 -2.739055e+00  1.3277649770     -7.462554e-03
## 4819     3    6.4    22 -3.143382e-01  0.5202205882     -1.710817e-02
## 4820     5   -2.2    26 -4.055677e+00  0.3276799863     -7.899480e-02
## 4821   -30    6.7   -16 -9.152381e+00 -1.0666666667     -6.607494e-02
## 4822     7   -2.6   -32 -2.873414e+00 -0.8568670712      2.045659e-02
## 4823     8   -7.4   -80  6.158009e-01 -1.2261904762     -1.791291e-02
## 4824    -3    4.9    35  8.505263e-01  1.0136842105      3.944884e-02
## 4825     2    3.6    -5 -9.036797e-02  0.3698593074      2.530259e-02
## 4826     2    0.3    52  1.542636e+00 -0.3511627907     -4.373115e-02
## 4827    11   -9.4    18  6.408235e+00  0.9917266641     -1.038744e-02
## 4828    10    5.5    53  6.541283e-01  1.1899484938      7.306344e-03
```

```
## 4829     0   5.3    61  1.711646e+00   1.2318987342    -2.582642e-02
## 4830     2   0.9   -28  3.742389e+00  -1.1718640864     1.078762e-01
## 4831     5   8.0   -19  8.661667e+00  -0.5821416114     3.342167e-02
## 4832     3   3.3    84 -8.176877e-01   1.9797430830    -4.918213e-02
## 4833   -10   0.4    56 -4.198677e+00  -0.3347367014    -2.207352e-02
## 4834   -10  -2.5    54 -7.100373e+00  -1.1328358209    -1.206620e-01
## 4835     0  -0.8   107 -1.673069e+00  -1.1583440034    -2.774795e-02
## 4836    -7  -2.7   -38 -4.229964e+00   0.8949270846     2.414002e-02
## 4837    -3   6.0   -92 -2.565435e+00   0.5224775225    -7.138821e-02
## 4838     0   1.2   -35  7.363278e+00  -0.7668217609     1.106799e-01
## 4839   -10   0.8    49 -1.567754e+00   0.3163043478    -9.480661e-02
## 4840   -13   0.1   -59  3.339404e-01  -0.6038079470    -2.969869e-02
## 4841    28   4.4    -1  1.312987e+01  -1.0909090909     8.774149e-02
## 4842    16  -3.0   126 -3.216479e+00   2.6028613200    -4.065624e-03
## 4843    -5  -6.4    40 -2.870370e+00  -0.7962962963    -5.367383e-03
## 4844    10  -1.1    36  4.625916e+00   1.7621238110     8.671404e-02
## 4845     5  -0.3    15  5.450928e+00   0.1149425287     9.663727e-02
## 4846     2   9.3    -7  3.480708e+00  -0.0015812777     2.652173e-02
## 4847    15  -4.7    13 -4.094017e-01  -0.6834757835    -4.811655e-02
## 4848     2   5.2   -36  3.355521e+00   0.7301341589     5.683366e-02
## 4849     8  -1.9    28  1.183092e+00  -0.8367149758    -3.714691e-02
## 4850    -2   3.1    76 -1.175645e-01   0.8490963327    -6.842510e-03
## 4851     0   0.9    49 -2.445701e+00   1.3104575163    -1.489727e-02
## 4852    13  -5.8    49  4.510503e+00  -0.1016891023     6.965470e-02
## 4853     5  -0.3   -64  2.362440e+00  -0.7153110048     5.913076e-02
## 4854    15   5.0   -42  4.761784e+00  -0.8544771598     6.786766e-03
## 4855    -5  -1.4   -45 -3.329126e+00   1.5928003740     2.395036e-03
## 4856    18  -5.1   -32  2.544304e+00  -0.9079566004     4.121256e-02
## 4857    15  -2.8     8  3.097066e+00   0.3003537245     4.665160e-02
## 4858    -8   9.4   -33 -2.508311e+00  -0.1000664894    -3.134682e-04
## 4859     0  -0.9   -52 -3.849047e+00  -0.8475502635    -2.500056e-02
## 4860    18  -6.7   -14  3.652557e+00  -0.8260192735     3.652470e-02
## 4861    -5   6.1   -68 -5.250667e+00  -0.3353333333    -1.242663e-01
## 4862     3   0.3   -80  2.517679e+00   0.9062182483     4.717745e-02
## 4863   -16  -1.6     6 -3.070856e+00  -0.4278074866     1.149597e-01
## 4864   -15  -2.8    58 -2.181518e+00  -2.0806266168    -2.212970e-02
## 4865    10  -0.6    23  2.150966e+00  -0.2125603865    -6.406473e-02
## 4866   -15  -2.3    -9 -1.891134e+00   1.9678400695    -6.319364e-02
## 4867     0  -1.3    17  9.309211e-01  -0.6430921053    -1.902109e-03
## 4868     5   4.6     9  1.048679e+01   1.7997967480     1.388459e-02
## 4869    -2   5.9     6 -2.009590e-01   1.9642545772    -4.538025e-02
## 4870     0   3.1   -12 -4.455556e+00   0.1616161616    -5.710370e-02
## 4871     8  -5.6   -61  1.444419e+00   0.5589836661     1.744493e-02
## 4872    13  -5.2    56  2.727083e+00   1.3625000000    -5.207895e-02
## 4873    22  -6.6    44  6.602862e+00   0.1082289803     1.332344e-01
## 4874     3   7.0   -35  1.996269e+00  -0.3701492537    -2.897550e-03
## 4875    -6   6.9   -12 -2.882828e+00   0.5131313131     1.271213e-02
## 4876   -15   0.1    19 -3.529255e+00   0.5505319149    -2.073226e-02
## 4877     8   0.6   -20  1.143320e+01   0.4753741497     4.827719e-02
## 4878    -2  -1.4    -8 -3.465561e+00   1.3217697335    -4.689279e-02
## 4879   -15   5.4  -106 -5.909697e+00  -0.4067357513    -4.370268e-02
## 4880    16  -0.9   -10  3.898551e+00   1.7815734990    -2.160958e-02
## 4881    -3  -0.3    76  2.789519e+00   0.2317439863     2.811622e-02
## 4882    -8   2.8    41 -7.351186e+00  -1.1925423729    -3.595709e-02
## 4883   -21   7.1   -54 -4.491445e+00  -2.4281640711     9.232877e-02
## 4884     0  -3.7    50  5.612245e-01   0.8757503001    -7.592521e-03
## 4885    10  -2.0   139  4.016783e+00   0.6149184149    -7.969198e-02
## 4886     4   1.5   -91 -2.455357e+00  -0.4017857143    -1.341937e-01
```

```
## 4887    10  -3.7     3  1.414634e+00   0.7073170732        2.556886e-03
## 4888    -3  -0.6    -6 -5.686517e+00   0.3022246337       -6.631829e-02
## 4889   -10   0.6    21 -6.737473e-01   1.3801742919       -1.004950e-01
## 4890     3  -5.1  -125  1.871611e+00   0.1438064859       -2.449138e-02
## 4891    10  -5.2    30 -8.809659e-01   1.6512784091       -1.469518e-02
## 4892     0  -0.9    27 -4.077037e+00   0.6592592593       -1.285788e-01
## 4893     0   4.9   -14 -7.081340e-01   0.7404306220       -3.151640e-02
## 4894     5   1.6   -24  1.914773e+00   0.0795454545       -2.549761e-03
## 4895   -10  -1.8   -52 -2.354460e+00  -0.4225352113        3.552610e-02
## 4896    -2  -6.3   -11 -2.035467e+00  -1.3830390921       -7.879818e-02
## 4897    -9  -0.8   -63  9.793103e-01  -1.0758620690        1.048878e-01
## 4898     5  -1.2   -30  3.297386e+00   0.6526610644        4.664228e-02
## 4899    15  -5.4   -37  2.900473e+00  -2.1260772866        8.070647e-02
## 4900     0  -4.5    25 -4.070155e+00   2.2080620155       -4.968979e-02
## 4901    -7   1.0    11 -1.635209e+00   0.3713323713       -2.490040e-02
## 4902    -3   8.7     2 -2.035494e+00  -0.0123456790       -9.721006e-03
## 4903     2   0.4   -18 -2.672087e+00   0.5580571190       -3.500545e-02
## 4904   -16   1.4   -10 -8.759690e-01  -1.2604651163        1.092143e-02
## 4905   -10  -4.8    31 -8.957343e+00   2.4615384615       -1.345424e-01
## 4906    12  -0.3    -3 -1.790248e+00  -0.1219040248       -6.536857e-02
## 4907     5   5.6   -12 -1.907866e-01  -1.8165046399       -2.973244e-02
## 4908   -10  -1.6    39 -7.776718e+00   0.3580846634       -1.145176e-01
## 4909     7   8.2   -27 -1.746597e+00  -1.3664430854       -2.517805e-02
## 4910    -2   1.5     7  6.912385e+00  -0.4324769433        8.987456e-02
## 4911    -5   7.3    37 -2.021978e+00  -1.2637362637       -9.467653e-02
## 4912    -3   8.7     8 -1.914146e+00   0.0032520325       -1.508870e-02
## 4913    -7  -1.4    33  2.757987e+00  -0.4936447956       -1.614947e-02
## 4914    -8   7.1   -58 -2.236291e+00   0.6059299599        2.389221e-02
## 4915    -3  -0.1   -11 -4.568240e+00  -0.1621247369       -7.752389e-02
## 4916     5  -5.5   -22  7.118000e+00   1.3504301250        6.652307e-02
## 4917    -3   3.1   -47 -3.637551e+00  -1.3730788934       -1.898521e-02
## 4918    15  -4.6   -55  6.235443e+00  -0.2649362132        1.874442e-02
## 4919    10  -6.2   105  4.134641e+00   3.1464052288        8.504462e-02
## 4920     0  -4.9    94  2.724359e+00   0.1282051282        9.845096e-02
## 4921     5   0.0   -65  3.593064e+00  -1.3263752990        7.083053e-02
## 4922     5  -0.8  -100 -2.443236e+00  -1.6100795756        2.219573e-02
## 4923     3  -2.9   -27 -3.377500e+00   2.0075000000       -9.687599e-02
## 4924    -6  -2.9    80  1.404121e+00   1.5859089398       -1.792430e-02
## 4925     3  -6.4    40 -4.576733e+00   1.4027418723       -6.751213e-02
## 4926   -12  -7.1    14 -5.578893e+00   1.1129987130       -1.152218e-01
## 4927    -8   1.4   -21 -7.745098e+00   0.5495495495       -4.890697e-02
## 4928     9  -5.1    -3 -2.134946e+00   1.4881720430       -7.389309e-02
## 4929    -2  -3.0  -163 -7.342657e-01  -1.5827505828       -6.276709e-02
## 4930   -21   1.5    63 -1.321561e+01   0.2585299456       -1.188049e-01
## 4931    -7   0.1    15 -5.934615e+00  -0.4719780220       -7.996028e-02
## 4932    -2  -2.6    13  1.637237e+00  -0.4238848921       -1.320792e-03
## 4933     0   7.1   -18  1.454735e+00  -1.1332273061        5.058231e-02
## 4934    -8   6.0   -33 -9.263393e-01  -3.5063025210        4.298748e-03
## 4935     0  -2.4   -32  3.568047e+00  -1.1906114719        1.854800e-02
## 4936   -21   2.7  -159 -8.812870e+00  -1.9930875576        7.281514e-02
## 4937    -5   6.2   -47 -1.769231e+00   0.5368589744       -1.014199e-01
## 4938    -5  -2.0   -32 -1.161263e+00   1.2503002230        1.472200e-03
## 4939     5 -10.0    14  3.649539e-01   1.0250329381        3.083113e-03
## 4940     2   2.9    58  8.695238e-01  -1.3019047619        3.484283e-02
## 4941     8  -1.5   -32  1.146246e+00  -0.6036036036        9.513540e-02
## 4942   -15  -2.0    59 -3.645688e+00   0.6576756577       -4.123071e-02
## 4943    10   6.0   -16  1.063636e+00   2.1418181818       -1.276015e-02
## 4944    -5  -2.7    40 -1.711712e+00   0.9203049203       -5.488455e-02
```

```
## 4945    -8   3.1    23 -1.059457e+01 -1.1011730205          -6.910462e-02
## 4946   -15  -5.0    38 -4.774825e+00  0.7652680653          -8.845743e-03
## 4947     8  -4.5   -48  3.571377e+00 -0.2638961039           1.441285e-02
## 4948   -33  -6.1    49 -1.517521e+01  0.4807692308          -1.233276e-01
## 4949    12  -5.9   -43  4.698742e+00 -0.6270440252           3.697533e-02
## 4950     8  -4.2  -196  3.848584e+00 -1.0141612200           9.071283e-02
## 4951     0  -0.5   -25  4.365777e-01 -1.3924646782           7.889978e-03
## 4952     7  -2.8   -21  4.287879e+00 -1.4696969697           3.453551e-03
## 4953     0   3.8    11 -7.223856e-01  0.0995098039          -7.728080e-02
## 4954   -13   1.9    42 -1.103648e+00  2.0514096186           7.041199e-02
## 4955     5   5.6   -12  8.431373e-01  0.2352941176          -3.299786e-02
## 4956    10  -1.1   137  5.285114e+00  0.5630252101           1.014665e-01
## 4957     5  -3.9   -70  6.146407e+00 -2.5858759843           1.133806e-01
## 4958     3  -0.2   -27  7.559057e+00  1.1504435107           9.435195e-02
## 4959    -8   1.4    21 -2.401786e+00 -1.5029761905          -1.673700e-02
## 4960    -2   5.5    25 -6.102888e+00 -0.0667192274           3.645220e-02
## 4961    10   5.6    20  6.300654e-01  1.1254901961           9.062231e-03
## 4962   -13   0.5    -1  1.078755e+00 -0.2820512821          -2.620328e-02
## 4963    -3   1.6   -78 -3.001637e+00 -1.3295808089           7.035844e-02
## 4964    -5  -4.9    47  1.790193e+00  0.8278688525          -4.935389e-02
## 4965     7   2.5   -97 -3.914500e+00  0.2124286620           5.023094e-02
## 4966    -3  -3.4    28 -4.014286e+00  2.3779220779          -5.356521e-02
## 4967    -3   2.9   -43 -5.168263e+00 -1.7779297766          -3.033603e-02
## 4968    -5   4.8  -157 -1.238616e-01 -3.2468123862          -3.082766e-02
## 4969     2   1.6  -112 -7.974882e-01 -0.6326530612          -1.997340e-02
## 4970     5   0.5   -72 -3.371930e+00 -0.8824729801           2.348406e-02
## 4971    -7  -5.8    65 -5.217454e+00  2.7252304147          -1.605346e-01
## 4972   -12   3.6    80 -3.730714e+00  0.2286904762          -9.263568e-02
## 4973    -5  -2.9   104  2.700806e+00 -1.9995967742          -3.901885e-02
## 4974     2   4.5    62  1.771579e+00 -0.4586202938           2.822839e-02
## 4975     5   1.8    -2  6.430532e+00  0.8659642245           5.487365e-02
## 4976     3  -3.2   -54  1.500722e+00 -1.1587301587          -3.882166e-03
## 4977   -16   3.1  -122  3.280397e+00 -2.5076923077           3.582571e-03
## 4978    13  -2.9   -63  7.930224e+00 -2.4335820896           9.187486e-02
## 4979    -2  -8.9  -117 -1.877273e+00  1.0685064935          -5.709065e-03
## 4980   -20   4.1    49 -5.288793e+00  0.9719827586          -1.363863e-01
## 4981    -8   6.4    31 -2.236592e+00  2.3572607261          -4.915796e-02
## 4982     2   3.3    42 -3.686196e+00  0.9546548957          -3.907026e-02
## 4983    -5   5.9   -27  1.018475e+00 -0.5577712610          -9.461425e-03
## 4984    18   8.2    55  1.035419e+01  0.1117879747           3.284201e-02
## 4985     0   1.9    86 -6.195598e+00  1.5233468821          -1.101000e-01
## 4986    -2   6.4   -25 -9.361282e-01  0.0807726076           1.430507e-03
## 4987     5  -3.1   -36  1.118421e-01  0.2401315789           1.049174e-01
## 4988     2  -5.2   161 -1.914931e+00  1.5720486111          -1.558666e-02
## 4989   -16   0.5   -34  8.418367e-01 -1.7224489796           1.530456e-02
## 4990     7  -0.2    48 -6.519481e-01  0.1272727273          -2.041135e-02
## 4991   -11  -0.9   -98 -3.319004e+00 -1.9610054029           1.917636e-02
## 4992     3  -8.5   -26  4.923913e-01 -0.2760869565           4.253662e-02
## 4993     8  -1.9    20  5.977419e+00  0.3054590571           2.732961e-02
## 4994    -2   0.8    -8  2.649530e+00 -0.2209165687          -4.598612e-02
## 4995     0  -0.3    29 -1.445412e+00  2.1101698926          -1.123360e-01
## 4996    -3   3.3    59  1.488441e+00 -2.3398486759          -3.367532e-02
## 4997    -3   2.9    34 -3.384918e+00  0.9294367050           2.462604e-03
## 4998    -3  -2.0   -25  2.903469e+00 -0.3978129713           1.824066e-02
## 4999   -13   0.4   -20 -8.239394e+00  0.3296296296           6.404232e-03
## 5000    20   1.3   -11  5.349707e+00 -0.9564482450           6.510501e-02
## 5001     0   1.0    46  3.848520e+00  0.8169667379           2.639181e-02
## 5002    -7   1.9    38 -3.364389e-01  0.5369883739          -4.947775e-02
```

```
## 5003      3    2.5   -54  3.305787e+00 -0.0788425047       8.251848e-02
## 5004     -8   -9.0    58 -3.792248e+00  2.0957364341       3.864055e-02
## 5005    -18    1.7   -70 -5.074780e-01 -1.0960410557       1.629343e-02
## 5006     -5   -1.3   -33 -3.696881e+00  0.1604643105       4.349566e-02
## 5007     -5   -2.7   -10  1.597063e+00  0.5737498108       1.988183e-02
## 5008      0    1.1    72 -1.166321e+00  0.3852707144      -9.386691e-02
## 5009      5   -4.3     6  2.275890e+00 -0.8490533759      -1.322701e-02
## 5010    -23    6.5    -4 -4.686062e+00 -0.0449616504       2.353645e-02
## 5011      8   -1.4    14 -4.431761e-01  0.2316928801      -1.736605e-02
## 5012      0    3.4     6 -1.157692e+00 -0.3576923077      -2.203567e-02
## 5013     12   -1.5    96 -9.858974e-01  0.2243589744      -5.688657e-02
## 5014     -2   -3.7   -28  5.926015e-01  0.8818809180       4.206402e-02
## 5015      2    0.8   -30  3.749482e+00 -1.1444674488       1.030079e-01
## 5016    -15    5.1     1 -4.305552e+00 -0.3058282209       2.416956e-02
## 5017     10   -1.5   -24  3.484076e+00  0.1273885350       2.834279e-02
## 5018      3   -5.8    -2 -3.300732e+00  1.2103011540      -3.725240e-02
## 5019      2   -2.0    -2 -2.682309e+00 -0.0389780797      -2.706258e-02
## 5020      5   -5.7     1 -2.999841e-01  0.9230207838      -4.799404e-02
## 5021      7    2.5     7 -1.777778e-01  2.3500000000      -4.207953e-02
## 5022    -18   -1.8   140 -8.545662e+00 -0.7972602740      -1.830064e-01
## 5023      3   -3.3   -11  2.291235e-01 -1.1073153899      -3.649539e-02
## 5024     -5    3.1   -23  6.425172e-01 -0.1094658911       1.304349e-01
## 5025      5   -0.4   -64  5.483749e+00  0.3904006047       3.444689e-02
## 5026      2    2.7   100  1.691667e+00 -1.9250000000      -1.671740e-02
## 5027     -6   -1.7   -61 -3.753358e-01 -0.7294261294      -6.382720e-02
## 5028    -12    2.2   -49 -4.573632e+00 -0.3228855721      -7.851065e-02
## 5029      8   -3.1   -57  9.356331e+00 -0.6718346253       1.388803e-01
## 5030      0   -0.8  -487  3.963107e+00  1.6237864078       1.341411e-02
## 5031     -2    9.5    53  2.726190e+00 -1.3095238095      -1.169739e-01
## 5032      7    8.4   -14  1.381462e+00  1.6880570410      -5.581243e-03
## 5033    -19   -2.2    17  7.389706e-01  0.5386029412       4.598132e-02
## 5034    -18    3.6  -106 -9.160640e+00 -1.1893078512       1.804949e-02
## 5035      0    1.9   -59 -4.661805e+00 -0.5952118877      -5.676101e-02
## 5036      0   -4.3   -79  6.493506e-03  0.5064935065      -4.611471e-02
## 5037    -13    3.1    92 -4.101176e+00 -1.3898039216      -8.349769e-02
## 5038    -10    7.2   -11 -7.888889e-01 -0.8722222222      -9.238537e-02
## 5039     20   -4.5     5  8.617591e+00  0.6548127074       3.053281e-02
## 5040     -5    5.5    -4 -1.424242e+00  0.6515151515      -1.616428e-02
## 5041      2    5.1    54  2.830847e+00  0.1332490518       9.298488e-03
## 5042     -2   -2.4   -57 -1.401261e+00 -1.0455182073       1.102918e-02
## 5043     10    0.5    17  6.202055e+00 -0.3065068493       7.684090e-03
## 5044      3    5.3   -37  2.584348e+00  0.5882608696       7.474775e-02
## 5045     -8   -2.0    56  6.588235e-01  0.9694117647       9.574782e-02
## 5046    -13    9.3   128 -3.353247e+00 -0.9389610390      -2.046557e-02
## 5047      8    1.0   -60  4.535147e-01  2.1122448980      -1.207627e-02
## 5048    -13   -1.3   146 -4.338229e+00  0.4214606283       1.383898e-03
## 5049      7   -2.6     5  9.933036e-01  0.6235119048       3.470914e-02
## 5050      8   -3.5   123  1.869033e-02 -0.7425036977      -1.188585e-01
## 5051     10  -11.2   -39 -1.150255e-01 -0.0636672326       4.608233e-02
## 5052      2   -0.3   -67  3.244613e+00  0.1825450603       5.846774e-02
## 5053     -2    4.8   -62 -4.132120e+00  0.3689414619       2.909560e-02
## 5054     13   -6.0   -75  1.090461e+00  0.1101973684      -6.717609e-02
## 5055     10    2.6    -5  9.490196e-01  0.5372549020      -1.586187e-01
## 5056    -21    5.8   -22 -3.618012e+00  0.7929606625      -5.471015e-02
## 5057     -3   -0.1   389  1.507563e+00  1.0109243697      -9.273273e-02
## 5058     10   -3.6   -50  9.628788e-01  0.5795454545      -7.365339e-02
## 5059      5   -4.8   -19 -9.750233e-01 -0.7098506069       2.290944e-02
## 5060     -2    4.7    71 -9.277728e-01 -1.0796583096       6.486261e-02
```

```
## 5061    -10    6.1     45  -3.985294e+00  -1.5000000000    -5.677365e-02
## 5062     12    2.3     92   6.255556e+00  -0.6666666667     1.041428e-01
## 5063     -5   -3.7     31  -4.156773e+00  -0.6287625418    -3.540684e-02
## 5064      2   -2.3    -48  -2.619369e+00   2.0180180180    -3.478274e-02
## 5065    -16    3.2     54  -6.965368e+00   1.1372912801    -6.303178e-02
## 5066      0   -4.4   -103  -4.046620e+00   0.3123543124    -2.324289e-02
## 5067     -5   -2.0     63  -1.331174e+00  -0.4294969512     2.939871e-03
## 5068      8    2.6     52   2.567555e+00   0.7352472089     2.878218e-02
## 5069      2   -1.5    -44   5.898656e+00  -1.2825681224     5.816080e-02
## 5070    -18    9.5     89  -6.773109e+00   0.2113768584    -1.267873e-01
## 5071     -8    1.3     59   1.291111e+00  -0.9288888889     1.830592e-01
## 5072      8   -4.6    -42   1.247863e+00  -0.1410256410     3.828613e-03
## 5073     -5   -2.1     84  -3.901351e-01   1.6241926013    -1.438678e-02
## 5074      2   -1.2   -105  -1.264727e+00  -0.2949775655     7.623949e-02
## 5075      5   -0.1    194   8.266684e-01   0.1341777035    -1.067968e-01
## 5076    -23    2.5     60  -8.388014e+00  -0.5245593420    -8.946731e-02
## 5077      5   -4.7    -73   3.298057e+00  -1.8841624963     2.665339e-02
## 5078     -3   -7.3    121   3.408680e-01  -0.6564195298    -5.534927e-02
## 5079      0    3.3    -23  -2.761788e+00  -0.5035721576     1.780265e-02
## 5080      5    6.8     53   3.828571e+00   1.3785714286    -3.529289e-03
## 5081     -5   -2.8     18  -2.980315e+00   0.5774278215     7.714146e-03
## 5082      2    1.0    -84  -3.111842e+00  -0.2885964912    -4.828834e-02
## 5083    -20    5.8    -22  -6.182237e+00   0.7729367407     2.466791e-02
## 5084     -8    1.5    -63  -8.116769e+00  -0.3094820018    -4.275639e-02
## 5085      3    5.8     19  -5.214311e+00  -0.2349156668    -4.431560e-02
## 5086      2    0.1     96  -2.975244e+00   0.7135533883    -1.810450e-02
## 5087    -10    8.9     86  -8.086183e-01  -0.6502037289    -1.646866e-03
## 5088    -18    2.9    115  -2.099929e+00   1.2083926031     3.672472e-02
## 5089     13   -9.1     64   2.709852e+00   1.3034482759    -5.108333e-02
## 5090    -10    1.2    144  -1.011622e+01   2.2945945946    -6.784482e-02
## 5091      8   -3.5     56  -5.813679e-01   0.5424528302    -2.569126e-02
## 5092      2   -2.4      8  -1.757160e+00  -1.9060761994    -9.787489e-02
## 5093     -3    2.1     92  -5.992290e+00  -0.3841561995    -4.144213e-02
## 5094     -5   10.9     64   1.563144e+00  -0.7853988814    -3.334654e-02
## 5095      3    0.8     73   1.758730e+00   1.7978835979    -2.350318e-02
## 5096    -18   -0.1      4   1.400854e+00   0.2200215891    -3.498605e-02
## 5097     -8    3.4     -5  -4.884647e+00  -0.0729036295     7.079644e-02
## 5098      5    4.1    118   3.478596e+00   0.5052631579     1.418719e-02
## 5099      5    0.2      6  -4.717631e+00  -0.0906716418    -2.645623e-02
## 5100      8   -2.5     -9   3.406776e+00   0.2618579235     8.845505e-02
## 5101    -15   -5.8   -100  -6.506793e+00  -0.0081521739     1.143692e-01
## 5102    -23   -7.1     37  -9.837919e+00   1.0723154362    -9.030509e-02
## 5103     13   -3.0   -115   2.913793e+00  -0.3834900731    -1.056613e-01
## 5104     26   -4.1   -222   1.011944e+01  -1.0745762712     1.185385e-01
## 5105    -10   -3.8     21  -2.866667e+00  -0.0274509804     1.650803e-01
## 5106      3    0.8    -87   6.252766e+00  -1.6563251563     2.199358e-02
## 5107      7   -0.2     -6   6.718134e-01  -0.7350997585    -4.925975e-02
## 5108    -12    0.1    -95  -3.857784e+00   1.8934081346    -1.017515e-01
## 5109      0    1.2    -73   6.196429e+00  -0.2110389610     1.197708e-01
## 5110      0   -1.5    -84  -9.121287e-01  -0.9391089109    -5.919238e-02
## 5111     -3    4.0     54  -3.060127e+00   1.9298043728    -6.248043e-02
## 5112      7   -7.0     -6   9.093750e+00   1.3649764151     5.475981e-02
## 5113      2    6.5    -69  -1.140741e+00  -1.1940740741    -8.131902e-03
## 5114     20   -4.4    -56   7.409470e+00  -0.2751473278     6.050684e-02
## 5115     -3   -3.4     -2  -2.404156e+00  -2.5704129068     4.357134e-02
## 5116      7    4.1     17   3.991935e+00  -1.2258064516     8.892740e-02
## 5117     10    3.4    -72   8.786174e+00  -0.5766423358     8.222457e-02
## 5118     13   -6.2    -35   4.059618e+00   0.7742032246     3.965176e-02
```

106

```
## 5119   -10    3.5    53 -2.597403e+00 -0.9480519481       1.153506e-02
## 5120     8   -0.3     2  2.233066e+00  0.8805704100       6.012693e-03
## 5121     0    2.4  -467  1.813690e+00  1.9392857143       2.843314e-02
## 5122    10    7.5   -11 -9.388357e-01 -1.6005895357       3.300671e-02
## 5123     0   -0.8   -17  2.653443e+00 -1.7346101231       1.012896e-01
## 5124    -3   -0.5   -76  9.547364e-01 -0.9563626508      -2.397296e-02
## 5125    -2  -12.4   -67  1.334877e+00  0.2191358025       3.274182e-02
## 5126     3   -9.4    29 -6.142822e-01 -0.2954040030       2.961971e-02
## 5127     8   -2.0    10  1.726111e+00 -0.4050000000       9.646493e-02
## 5128     0    0.8    64  2.500000e+00 -1.5170454545      -2.830967e-02
## 5129     3    1.1    44  5.642017e+00  1.8100840336       1.507638e-02
## 5130   -10    8.5    36  1.195007e+00 -0.5701754386      -7.908632e-02
## 5131     1   -2.2    10 -9.598056e+00  0.3750714694      -9.378915e-02
## 5132    -7   -2.6    20  3.177158e+00 -1.8806764798       2.449109e-02
## 5133    25   -5.0   -80  6.036655e+00 -0.5301093485       9.213265e-02
## 5134    23    2.7  -114  1.040232e+01 -0.7967715232       4.780096e-02
## 5135     0   -2.1   237 -3.668944e+00  0.1826086957      -1.011007e-01
## 5136     2    1.5   -85 -1.790323e+00 -0.4144563919      -1.440635e-02
## 5137     2    0.0   -73  1.524526e-01  0.0002787068      -3.777964e-02
## 5138    -2   -0.6   -39  2.247033e+00 -1.8759029928       3.055513e-02
## 5139    -2   -3.2  -147  9.424960e-01 -1.4817518248       2.100929e-02
## 5140     2  -11.2    11 -3.208333e+00  1.1089743590      -7.482571e-02
## 5141   -30    8.1    63 -7.906953e+00  1.0765161534      -1.304861e-01
## 5142     6   -0.7   -25 -1.783143e+00  0.6303219107      -3.866979e-02
## 5143     0    1.9    25 -1.705719e+00  0.2299411270      -2.953579e-02
## 5144     2    2.9    78  2.692308e-01 -1.4030448718       3.039660e-02
## 5145    -8   -1.9    60 -8.990338e+00 -1.7241545894      -1.008471e-01
## 5146    -5    4.2    34 -5.295593e+00  0.8492939666       1.759142e-02
## 5147     3    0.5  -128 -4.638441e+00 -1.9153225806       1.820432e-02
## 5148    -5    5.5   -32 -2.236525e+00 -0.1716104040       9.433943e-03
## 5149     0    3.6   -43  4.196920e+00 -1.7647473433       1.127133e-01
## 5150    -3    7.9    28 -3.933029e-01  0.0243531202       2.983224e-02
## 5151    -8   -6.5   -77 -5.861111e+00 -0.8750000000       1.045938e-02
## 5152     5   -1.5    50  4.996607e+00  0.9389312977      -2.137874e-02
## 5153     0   -3.9   -60 -1.126173e+00 -2.6525953721      -4.251240e-02
## 5154     0    0.8   432 -3.946827e+00 -1.6423670669      -4.333673e-03
## 5155   -21   -7.4   315 -7.696770e+00  2.9557416268      -9.467288e-02
## 5156    -8   -2.5   -61 -4.099886e+00 -0.5054223744      -6.486129e-03
## 5157   -15    4.4    69 -8.719252e+00  2.0846715328      -1.793210e-01
## 5158    -5    6.7   100 -4.044974e+00  0.0317460317       3.878966e-02
## 5159    -8   -2.0   125 -3.977632e+00  0.2973684211       1.083642e-02
## 5160     0    5.3    35  5.058027e-01 -0.0228884591      -8.033301e-02
## 5161     0    6.3   -30  4.665166e+00  0.6009116371       7.382153e-02
## 5162     0    3.5   -19 -2.766841e+00 -0.8555502846       5.773440e-02
## 5163     5    4.5   -19  8.387747e+00 -0.3189723320       8.504866e-02
## 5164     2    9.0    19 -1.296412e+00  1.6373124592      -3.381860e-02
## 5165    -5   -6.7   -36 -2.190802e+00 -1.1951355885      -6.587981e-02
## 5166   -18    2.6    16 -4.638676e+00 -0.6885478829      -3.555687e-02
## 5167    -5   -2.5  -164  1.487088e+00 -1.7742901983      -3.736830e-02
## 5168    -5    1.8    12 -1.264856e+00  0.1628599476       4.880107e-02
## 5169   -15   -1.3    -9 -1.095273e+01 -0.0409663866      -1.054898e-01
## 5170     0   -3.4     1 -5.102375e-01  0.4883292383       3.422125e-02
## 5171    -3    2.8   -37 -5.247152e+00 -1.7763148919      -3.589695e-02
## 5172     5   -0.7    36  2.581850e+00  1.2423324498      -5.034766e-02
## 5173    -8    3.5   -52  5.305795e-01 -0.5943517330       2.421483e-02
## 5174   -10    0.7    31 -3.685745e+00  0.3829712065       4.316722e-03
## 5175    -2    5.5    25  3.060000e+00  1.7281751825       2.410206e-02
## 5176     2    1.3     4 -5.804574e+00 -0.0412137681      -9.935424e-03
```

```
## 5177    -10  10.5    33   9.090909e-02   0.8989050166         2.097926e-02
## 5178      3   6.0    34   4.654400e+00   1.3559767571         6.463472e-02
## 5179     -8   0.2    58  -3.248677e+00   0.2622826909        -9.755996e-02
## 5180     -8  -0.9    60  -5.060729e-01  -1.9878542510         1.484997e-02
## 5181      0   1.5    82  -6.299694e-02   1.1733944954         8.533253e-03
## 5182     13  -2.5   -22   3.000000e-01  -1.4772727273        -1.657271e-01
## 5183      5   0.5    -2   2.519632e+00   0.9590643275         7.888168e-02
## 5184    -16  -2.5    40  -4.000000e+00  -0.9600000000        -1.154065e-01
## 5185      5  -6.3   -54   2.779394e+00   0.3593939394         7.366938e-02
## 5186     10  -2.3   -68   4.380952e-01  -0.8571428571        -6.155985e-02
## 5187     -7  -2.0    87  -8.461538e-01  -0.3874024526        -6.880649e-02
## 5188     18  -1.8    74   4.687727e-01   1.0907770516        -2.458062e-03
## 5189      5   2.4    -8  -1.411940e+00   0.9223880597        -4.805600e-02
## 5190    -10   1.4   106  -2.012919e+00   1.3229665072         1.045287e-01
## 5191      7  -3.7   -49   5.250000e-01   2.8125000000        -1.106047e-02
## 5192     -5  -2.1   -76   6.402923e+00  -0.1662757127         8.583102e-02
## 5193      0   2.2   -20   2.954044e+00  -1.3645833333         7.876983e-03
## 5194     12  -3.5    19  -1.328891e-01   0.3347372391        -9.317822e-02
## 5195      2  -9.5     4   2.120208e+00  -0.1864847303         1.069978e-01
## 5196      5   6.4     4   3.108713e+00  -0.4895119000         5.274518e-03
## 5197     10   1.7   -25   2.100619e+00  -0.0683694530         1.178554e-02
## 5198      0  10.8   -65  -3.368889e+00  -0.9244444444         1.669528e-02
## 5199     -3  -1.1   -38  -2.938095e+00  -0.6476190476         4.407213e-02
## 5200     10  -1.5     9  -3.164557e-03   2.4630801688        -9.387582e-03
## 5201     12  -8.9   170   7.424242e+00   2.3636363636         9.240146e-02
## 5202     -5  -7.4   -47   5.446809e-01   0.3814109742        -7.075955e-02
## 5203    -23  11.0    33  -4.952550e+00  -0.7651884701        -7.329772e-02
## 5204     14   0.8   -27   2.589496e+00  -0.5361344538        -2.688884e-02
## 5205     -7   0.1    25  -6.139699e+00  -0.4491600354        -8.469938e-02
## 5206    -10  -7.0    52   2.166169e+00   2.1165048544         2.716373e-03
## 5207     -3   1.0    22  -4.946581e+00   0.9038461538         6.874516e-02
## 5208    -15   3.6    29  -5.046595e+00  -0.3566308244        -6.768301e-02
## 5209      3  -7.4     6  -1.148810e+00   1.4920634921        -5.968840e-02
## 5210     -8   0.2    45  -2.638438e+00  -1.1470588235         1.382139e-02
## 5211    -21   7.3     2  -1.557564e+00   0.5127175368        -4.832837e-02
## 5212     15   8.5   -75   2.581293e+00  -1.3835530446         5.442369e-02
## 5213     -5  -3.2   -53  -2.755041e+00   0.2505362505         1.219560e-01
## 5214    -13   7.3    15  -4.108217e+00  -1.6446598021        -4.626513e-02
## 5215    -19  -4.9    60   2.255792e+00   1.6409266409         4.700536e-02
## 5216     -5   3.6    60  -2.388938e+00  -0.3956289028        -1.613469e-01
## 5217     23   2.7   -84   4.433208e+00  -1.2964358157         5.141625e-02
## 5218     13  -2.2   -62   5.358366e+00  -2.0991436100         7.560319e-02
## 5219     15   8.4   -41   3.016667e+00  -1.1666666667         5.228142e-02
## 5220      0  -1.5    75  -1.335227e+00   2.1036931818         4.758098e-02
## 5221      0  -3.2   -53   3.136040e+00   1.2165242165         5.252635e-02
## 5222     15   0.1   -45   3.989892e+00  -0.3537735849         1.450797e-01
## 5223      0   3.9     8  -1.889599e+00   0.5416286496        -3.599797e-02
## 5224     19   2.2   -25  -6.578947e-01  -0.3921052632        -2.843251e-02
## 5225    -16   2.9    57  -5.891563e+00  -0.7888198758         6.487916e-03
## 5226     13  -4.2   -54   6.170513e+00   0.5653846154         8.767312e-02
## 5227    -10   4.2    54  -1.297941e+00  -0.6576381365         5.384555e-02
## 5228     13   1.9   -48   5.219529e+00  -0.1461279461         1.722518e-02
## 5229     -5  -6.0   -77  -3.428383e+00   0.0135973597        -4.317609e-02
## 5230      3  -3.6   -39   2.014375e+00  -0.9943750000         2.913046e-02
## 5231     -5   9.9    25  -3.014172e+00   1.1938775510        -6.192253e-03
## 5232     -7   5.0    71  -7.533213e+00   0.3031400966        -5.571988e-02
## 5233     13   8.5   -88   2.733204e+00  -2.6172689789         6.872943e-02
## 5234      3  -6.6   -20   7.160942e-01   2.0435246426         1.945616e-02
```

```
## 5235     0    9.1   -27   9.008547e-01  -0.0418803419           3.799797e-02
## 5236    14    0.8   -43   2.544689e+00  -0.6831501832          -9.597686e-03
## 5237    20   -6.3   -67   3.098140e+00   0.7995867769           8.038035e-02
## 5238    23   -5.2   -98   6.302288e+00   0.7361111111           2.507239e-02
## 5239     0   -1.7    33  -1.241744e+00   0.0049019608           2.733713e-02
## 5240    -3  -10.8   -72   5.730662e+00  -1.7204100652           5.737910e-02
## 5241     3   -1.4   -52   2.265327e+00   0.2212399541           6.061193e-02
## 5242    -8   -8.2    71  -4.983099e+00   0.3928297055          -8.794457e-02
## 5243     5    1.4    -4  -2.336963e-01  -0.7563719038          -3.695315e-02
## 5244    -5   -8.8   -91   3.385696e+00  -0.4727806440           1.445707e-02
## 5245     0   -3.7   -21   2.383333e+00  -1.3693121693           2.212117e-02
## 5246   -18   -1.1   -13  -2.487473e+00  -0.7204247553          -5.770902e-02
## 5247    -8  -10.6   -11   1.640232e+00  -0.6224513988          -5.060703e-02
## 5248     0  -12.3   -82   2.163690e-01  -0.8151785714          -1.664610e-03
## 5249    15   -6.4    -1   5.089181e+00   0.9029903461           5.896452e-02
## 5250     8    3.8   -13   3.439211e+00   0.1357980803           5.349672e-02
## 5251     5    9.9    24  -4.317461e+00   0.1774473502           1.800677e-02
## 5252     5    2.4   -37   4.826705e+00   0.0940340909           7.889921e-02
## 5253    -3   -0.2   -72  -2.718817e+00  -0.1013440860          -4.930722e-02
## 5254     0   -2.4     8   3.911902e+00   0.3375028778           5.114103e-02
## 5255   -20    3.9    -2  -6.495756e+00  -0.1466873706          -1.586528e-02
## 5256     3   -6.3    78   4.561905e+00   2.3619047619          -2.494522e-03
## 5257     2    3.2    54   4.671782e+00   0.8797953964          -1.928201e-02
## 5258     5    3.9  -102   1.869565e+00  -0.2347826087          -6.722325e-02
## 5259     5   -1.8    12   5.378943e+00  -0.8307757886           5.488622e-02
## 5260     2    3.7     4   1.766656e+00  -0.5040675523           5.449580e-02
## 5261    15   -2.8   -25   5.883744e+00  -0.2889740173          -1.619975e-02
## 5262   -17    4.4    15  -4.377660e+00   0.1471631206          -5.659890e-02
## 5263     5   -5.5    47   7.648337e-01  -0.6207671561          -4.980939e-02
## 5264   -20   -2.2   -18  -8.285053e+00  -0.4804210526          -7.914047e-02
## 5265    -5   -6.7   -11  -1.874784e+00  -1.2327914217          -7.412338e-02
## 5266    13   -9.8   -32   3.819324e+00  -0.7929394277           2.404186e-02
## 5267     0    1.9   -41   2.780214e+00  -1.5136834948           6.030250e-02
## 5268     0    2.5    -4   4.071942e-01  -0.5541870504           8.256587e-02
## 5269   -15    3.3    30   2.362597e-01   0.3697019192          -2.836501e-02
## 5270    -3   -2.0   -21   2.743778e+00  -0.4159896841           1.484826e-02
## 5271     8   -6.2    94   6.966071e+00   2.3517857143          -9.324101e-03
## 5272     0    6.0   -67   3.539216e+00  -1.3382352941           1.181139e-01
## 5273    -2   -1.5    48  -1.818095e+00  -0.5533333333          -6.117102e-02
## 5274   -11    3.8    24  -1.072259e+00   1.2996900426          -4.056768e-02
## 5275    26    0.7   -33   1.465433e+01  -0.9761064179           1.713327e-01
## 5276     0   -3.6    48  -4.154700e+00   1.7368772470          -1.066628e-01
## 5277    -3    4.8     9  -6.281652e+00   0.0123051682          -7.775624e-02
## 5278   -17    3.5    93  -6.817771e+00   0.6714357430          -1.012737e-01
## 5279    10   -0.4    33   6.216931e+00   0.8677248677          -7.241671e-03
## 5280    -3   -0.7    15  -2.664124e+00  -0.6186440678          -3.680346e-02
## 5281     2    0.9   -20  -3.919643e+00  -1.6428571429          -8.573965e-02
## 5282    18   -4.3     6  -6.078159e-02   0.3392801977           1.748076e-02
## 5283    -3   -2.3    -3  -6.875446e+00   0.0044002692          -8.135872e-02
## 5284   -11   -0.7    14  -2.126309e+00   0.0671131007           8.735402e-03
## 5285    28   -1.6    -7   9.446560e+00   0.0682471823           5.756058e-02
## 5286     0    9.1    23   2.145384e+00   0.8333045729          -8.224161e-03
## 5287    10   -1.8    18  -3.231128e+00   0.0997218162          -7.407230e-02
## 5288    -3   -4.5     8  -3.527079e+00   0.2248283753          -2.518537e-02
## 5289    10    5.6   -13   1.703888e+00  -0.0800248139           1.189482e-02
## 5290    -8    2.9     7   2.250312e+00  -0.4542196460          -5.331920e-02
## 5291   -21   -1.1    10  -1.059664e+01  -0.0674409891          -5.946607e-02
## 5292     3   -0.9   -19  -9.255952e-01   0.2964691558           3.248128e-02
```

```
## 5293    7   1.7   -21   1.074825e+00  -0.5537462537      -6.460454e-02
## 5294   10  -0.4    -9  -9.159892e-01  -1.4495257453       1.056063e-04
## 5295   12  -1.6    61  -1.099658e+00   0.4563729683      -1.117385e-01
## 5296    0  -0.2   -11  -2.013926e+00  -1.3134121274       2.943781e-03
## 5297   -5   4.8    -1  -5.729284e-01   1.2405324334      -6.997091e-02
## 5298    3  -9.2    10  -1.028085e+00   0.0818222026       8.618247e-03
## 5299   -2  -3.2  -106   1.157005e+00  -1.4338164251       1.792798e-02
## 5300  -18   6.4    72  -5.620919e+00   0.4738055709      -2.736169e-02
## 5301   12   3.7     7   1.101562e+00  -0.7395833333      -3.662357e-02
## 5302   -2  -1.6   -12   4.207945e+00   0.2285646047       1.520766e-02
## 5303  -11   4.5    -6  -8.955800e+00  -0.1751544269      -5.676818e-02
## 5304  -10  -1.3     2  -2.630279e-01  -1.3769092543       7.964801e-03
## 5305   -8  -3.7    16  -3.364384e+00  -0.0977616853      -6.808054e-02
## 5306    3  -1.3  -106  -1.862441e+00  -0.8539906103       8.717548e-03
## 5307  -10   1.1    84  -3.832447e-01   0.6676861702      -3.891769e-03
## 5308    0  -4.4    17  -3.977876e+00   2.2077749684      -4.721350e-02
## 5309    3  -4.7     3  -5.555556e-02  -1.8598290598      -1.223719e-02
## 5310   15  -6.4    -7   5.064647e+00   0.9024877325       6.469408e-02
## 5311   14   0.5    24   2.871154e+00  -0.3057692308       2.672486e-02
## 5312    8  -1.8    -8  -2.307692e+00   0.2761904762      -4.456249e-02
## 5313   -5   2.8    87  -6.081487e-01  -0.1173343159      -3.561807e-02
## 5314    2  -7.4   -34   5.625806e+00  -0.2505376344      -1.452867e-02
## 5315   12   3.6   -35   1.373529e+00  -2.3218487395       7.901736e-02
## 5316    0  -3.1    17   2.047981e+00   0.5055000724      -1.871745e-02
## 5317   -7  -1.7    61  -5.604567e+00   1.3393429487      -6.591066e-02
## 5318   -3   7.4    29   3.105023e-01   0.9333333333      -1.196985e-01
## 5319   -5  -1.1    25  -5.758403e+00   0.4033613445      -1.141509e-01
## 5320    0   5.4    26   1.924648e+00   0.7667840376       3.504647e-02
## 5321   -8   3.0   -21  -3.348096e+00  -0.4812774171      -7.208993e-04
## 5322   -7 -10.0   -88  -2.536604e+00  -0.2095784941      -6.929222e-04
## 5323   13  -5.5   -23   7.377961e+00  -0.3822368421       1.007808e-01
## 5324  -16   2.0    67  -3.308170e+00   1.2356209150      -3.524273e-02
## 5325  -10  10.5    14  -9.282978e-01   1.4652435687       2.035110e-02
## 5326  -13   4.9   102  -2.269321e+00   0.9660930659      -1.618377e-02
## 5327    0   0.4    -5  -9.831927e-01  -2.1619124146      -4.647289e-02
## 5328    8  -0.4    25   3.180904e+00   1.1899326347       1.152541e-03
## 5329    0  -1.6    32  -5.332883e+00   1.1653423500      -7.774924e-02
## 5330  -23   1.0    73  -1.964327e+00   1.0264672037      -3.374423e-02
## 5331   12  -2.3   -26   1.226723e+00  -1.2516879433      -6.328982e-04
## 5332    2   3.2    25  -9.133037e-02  -0.4438444136      -9.750107e-02
## 5333   -8  11.2   -48   2.606078e+00  -0.5544041451       7.921336e-02
## 5334   -3   3.1    17  -4.870172e+00   0.7696500791      -5.562535e-02
## 5335    5   4.7     8   4.067347e+00  -0.5061224490       9.655082e-02
## 5336    0  -5.3    12   6.899517e+00   0.2224907919       6.793440e-02
## 5337    5  -2.7   -23  -3.594492e-01  -0.3584995252       3.585522e-02
## 5338    2  -0.3   -34   1.884058e-01  -1.5595755694       2.691626e-02
## 5339   18  -2.7   -25   5.336478e+00  -0.8050314465       8.420138e-02
## 5340   10  -5.9   -48   1.916544e+00  -0.3389788905       5.462596e-02
## 5341    3  -0.4    19   1.041745e+00   0.6552925802      -3.281934e-02
## 5342   13  -5.7    -7   7.973167e+00   0.0325363749       2.546897e-02
## 5343  -10   1.7    29  -4.246055e-01   1.7182933957      -1.418367e-02
## 5344  -10   1.4   -13  -2.227724e+00   0.0562500000       5.241596e-02
## 5345   -2  -3.7    25  -1.309173e+00   1.0641025641      -2.982689e-02
## 5346  -10   1.4    -7  -3.220888e+00   0.4372749100       2.573710e-02
## 5347    3  -5.8     1  -3.289081e+00   1.1347508547      -2.766068e-02
## 5348   -5   2.5    -1   6.279781e-01   0.0996569945       8.952361e-03
## 5349    0   2.6   -43   7.834652e+00   0.6345392877       3.337070e-02
## 5350    7  -5.6   109   6.252462e+00   1.4084433270       6.051359e-02
```

```
## 5351    5  -7.7    6  3.301205e+00   0.4743545611       9.621566e-02
## 5352    6   0.1   -1  4.073099e+00   0.5994152047       1.739340e-02
## 5353   10   8.8    2  4.158718e+00  -0.8137108793      -2.435063e-02
## 5354  -10   0.1  100 -5.755353e-01  -2.7920264995      -2.351643e-02
## 5355    0  -4.0  -58 -6.338443e-01  -1.4311615566       4.856132e-02
## 5356   -5  -2.2   17 -3.212121e+00   0.3939393939      -6.412799e-02
## 5357  -12   5.9    2 -3.940030e+00   0.2749542671       6.733255e-02
## 5358   -5   4.3   10 -2.531561e+00   1.0348837209       7.969965e-03
## 5359   -3   8.1   64  2.021591e+00   0.2764610390      -4.876855e-02
## 5360   -7  -3.6   24 -3.053594e+00   0.1526717557      -4.835664e-02
## 5361    2  -6.9  -23 -4.245237e+00   0.0635075721       1.526700e-02
## 5362   -7   0.8  -18 -3.749137e+00   0.0448791715       4.181576e-02
## 5363    0  -2.7   34 -3.854398e+00   0.3567129630      -8.702894e-02
## 5364  -13  -0.1  -59 -4.825013e+00   0.9522832612      -5.601272e-02
## 5365  -13  -2.3  118 -1.151786e+00   1.1892857143       2.972664e-03
## 5366   -7  -6.1   36  2.646456e+00   1.1769102990       7.552481e-02
## 5367   16   4.2  -40  1.247602e+01  -1.4307128581       1.588835e-01
## 5368  -13  -4.8   28 -3.158442e+00   1.7890104028       7.583712e-02
## 5369   -5   0.4  -46  1.894225e+00  -1.3427495292       6.773619e-03
## 5370  -10  -0.1   19 -7.038760e+00  -2.1937984496      -3.542177e-02
## 5371    5   7.9  -49  8.334709e+00  -0.3442362655       1.179185e-01
## 5372   10  -5.3    1  3.205758e+00  -0.7343434343      -4.111322e-02
## 5373    0   5.3   49 -4.053894e+00   0.7755195250      -5.333386e-03
## 5374    3  -2.7  -94  6.332283e+00  -1.4969792488       9.253827e-02
## 5375  -10   2.5   47 -2.642857e+00   0.2983920841      -2.299784e-02
## 5376    7  -0.1  -48 -4.412807e+00  -0.4675148431      -1.615786e-02
## 5377  -18   2.4   66 -5.285852e+00   0.4618131868       3.676771e-03
## 5378    5  -0.7   90 -3.914095e+00   0.0441795231      -8.308665e-02
## 5379    0   2.4 -128 -5.909054e+00  -1.7019060585      -7.180880e-02
## 5380  -23   3.9   26 -1.034519e+01   0.1849056604      -1.072938e-01
## 5381   10   8.5   20 -3.535933e-01   0.4774464832      -1.034146e-01
## 5382   10  -6.1   -3 -1.608884e-01   0.0646803900      -3.841691e-03
## 5383    0  -6.9  -30  4.951842e+00  -0.6963157895      -4.768810e-03
## 5384   10   1.5  -60  7.504789e+00  -0.2676056338       1.119207e-01
## 5385   11  -4.1  -35  4.256706e+00   0.0993541977       7.093679e-02
## 5386    2  -1.0   19 -6.602441e+00  -0.1017340496      -1.303340e-01
## 5387   26   5.6  -48  1.119500e+01  -2.2337500000       1.128085e-02
## 5388  -18  -1.1  -13 -2.495485e+00  -0.7783265978      -6.249319e-02
## 5389   18  -1.5  -74  3.693521e+00   0.2847399829       6.800092e-02
## 5390   18   0.0    4  5.909271e+00   0.0232061883       2.100145e-02
## 5391   -2   2.1  -21 -3.237756e+00  -1.2070434070      -2.375537e-02
## 5392   10   0.4    3  8.493031e+00   0.0716845878       6.447390e-02
## 5393   -2  -8.0   80 -5.287474e+00   2.3570468797      -1.650108e-01
## 5394    5  -5.2 -184 -2.208625e+00   0.9487179487       3.220117e-02
## 5395   10   0.4 -105  3.671609e+00   0.5263474254       1.120746e-01
## 5396  -10  -2.8   30 -6.083528e+00   0.8813131313      -1.485586e-01
## 5397   10  -6.7  -90  2.078617e+00  -1.4168521463       7.931967e-02
## 5398    2   6.7   26 -3.857640e+00   0.7505308757       1.865013e-02
## 5399   -5  -2.1   46 -1.924731e+00  -0.7947501581      -4.855733e-02
## 5400   15  -3.4  -10  2.859838e+00   1.4497497112      -6.919436e-02
## 5401    5   8.9 -220 -3.972373e+00  -3.5964247021       5.329149e-03
## 5402  -18   4.2   36 -6.704716e+00  -0.0035885167      -6.753946e-02
## 5403    3   7.1 -379 -8.336307e-01   2.9237288136      -4.499202e-02
## 5404    2  -1.5   47 -1.627530e+00   1.0173510700      -1.349083e-02
## 5405   16   5.2  -49  2.850062e+00  -2.3052241876      -6.018754e-02
## 5406   12  -4.1  -69  5.310103e+00  -0.4952881876       2.089002e-02
## 5407   -8   1.9   -3 -4.889434e+00   0.6353485839      -5.333932e-02
## 5408    2  -5.6   17 -4.335457e+00  -0.7177871633      -1.045026e-01
```

```
## 5409   -10   -6.3   137   1.547786e+00   1.8041958042           3.882489e-02
## 5410     0   -7.8   -60   1.616111e+00  -0.6983854346           5.533382e-03
## 5411     0   -1.5   -28  -6.389234e-01  -1.1333333333          -8.650699e-02
## 5412    -8    3.1    30  -1.086593e+01  -1.2610675039          -7.227303e-02
## 5413     4   -3.1   -49   2.423875e+00  -0.4720496894           7.419483e-02
## 5414   -18    2.4   -13  -5.622449e+00   0.9648526077           4.223507e-02
## 5415    -8   -5.5    28  -2.504762e+00  -0.2761904762          -4.151506e-02
## 5416     5   -5.4   -40   7.041992e+00   1.4020810108           7.533913e-02
## 5417    -8   -0.5    -4  -1.894231e+00  -0.5512820513           3.659121e-02
## 5418     5   -5.6     1   6.617284e-01   1.2580246914          -4.569043e-02
## 5419    -8    3.1   137  -4.843496e+00   1.9674796748          -1.344058e-01
## 5420     8   -5.9   120   1.503715e+00   3.0866873065          -1.422125e-03
## 5421   -10    1.7    22  -3.203457e+00  -1.2140957447           5.129407e-02
## 5422     8   -5.7   -68   5.766667e+00   0.4000000000           4.126785e-02
## 5423    10    4.7   -67   4.934334e+00  -0.7326454034           1.798311e-02
## 5424    12    3.4    81   1.521114e+00   0.7599955076           2.981286e-03
## 5425    -8   -2.1     9  -1.687356e+00  -1.3234482759           7.308691e-02
## 5426    -2   -6.4    23   3.094356e-01  -0.4001906174           2.188450e-02
## 5427    21   -4.8   -47   9.372002e+00   0.5318832497           1.028438e-01
## 5428   -10    5.6    97  -2.044872e+00   0.8229166667          -5.060858e-02
## 5429     2  -10.5   124   2.506853e+00   0.3399122807          -4.881166e-02
## 5430   -10    0.8   -24  -9.963731e+00  -0.4354628422          -3.360876e-02
## 5431     0   -5.3   -35  -4.086022e+00   0.3122759857          -4.082930e-02
## 5432     5   -2.0   -18   2.959770e+00  -0.4616858238           8.147443e-02
## 5433    28   -4.2    29   7.378778e+00   0.6983749914          -6.091610e-02
## 5434    18   -7.5  -108   3.477169e+00   0.1446347032           5.443888e-02
## 5435    -5   10.8    24   1.554363e+00  -0.7084680026          -3.944938e-02
## 5436     2    5.0    16  -1.192266e+00   1.5424694708          -1.667722e-02
## 5437    10   -1.8  -151   4.454545e-01   0.0513111888           1.645888e-02
## 5438   -10    9.7     1  -2.135632e+00   0.5535632184          -7.436609e-02
## 5439   -10   -3.5   -45  -1.768519e+00   1.3361111111          -3.554962e-02
## 5440     3    0.8    57   1.804703e+00   1.8661193879          -1.030893e-02
## 5441     5   -1.0   -61   3.524562e+00  -0.7444946358           9.322594e-03
## 5442     5   -1.7    76  -4.929012e-01  -0.2203703704          -4.860492e-03
## 5443    -7   -0.2   -15  -1.788462e+00  -0.5833333333           2.228652e-02
## 5444   -10    0.8   -79   3.383497e-01   0.0725034965           7.886256e-02
## 5445   -17    1.0    70  -4.902334e+00  -1.2275443511          -5.372223e-03
## 5446   -10    1.3   -62  -2.254545e+00  -1.8727272727           3.691403e-02
## 5447    -5    5.4    67  -1.421465e+00   0.4489898990          -1.270422e-01
## 5448   -10    1.8    82  -4.199764e+00   2.7156673114          -1.214779e-01
## 5449     0    4.1   -24   2.118456e+00   1.2598843569           1.742106e-02
## 5450    10   -0.5   -22   6.366441e+00  -0.9639857881           5.034033e-02
## 5451    -2   -1.4   -94   7.381143e-01  -0.5146631969          -3.301298e-03
## 5452   -12    8.9  -156  -7.120000e+00  -1.9114285714          -8.480011e-02
## 5453   -15    9.8    66  -8.359931e+00   0.9605817069          -1.246475e-01
## 5454    -6   -2.5    73  -2.421733e+00   0.5539513678          -4.230881e-02
## 5455     7   -2.4  -114  -1.985294e-01  -0.8209558824           5.118060e-02
## 5456    -8   -4.4     6  -9.479549e+00   0.0303899083          -1.268862e-01
## 5457    -5    6.3    90   1.567262e+00   0.9582389709           3.935673e-02
## 5458   -11    9.0   112  -9.223512e+00   1.3892112616          -3.905277e-02
## 5459    -2    1.2   110   1.454321e+00   0.4967901235          -7.700698e-02
## 5460    -3    2.0   161   3.490909e-01  -0.7727272727          -3.970221e-03
## 5461     0    0.8   -39   1.885833e+00   0.4681803646           9.336437e-02
## 5462    -2    4.2   -46   6.348918e+00  -1.5948051948           1.360162e-01
## 5463   -10    0.8   -61   1.576883e+00  -1.0540075679           8.193631e-02
## 5464     0    4.1     2   5.109162e+00  -0.5068226121           1.479327e-02
## 5465    18   -5.5    29   9.316016e-01   2.3075920168          -9.673911e-02
## 5466   -21    3.7    32  -1.278058e+01  -0.2036767383          -1.348454e-01
```

```
## 5467    -13    2.2    72  -8.412698e+00   0.3404761905       -3.712407e-02
## 5468     15   -5.4    73   5.007119e+00   0.2578184592        9.798900e-03
## 5469     15    3.6   -53   1.611666e+00  -1.1804728042        3.344585e-02
## 5470     -8    5.1   115  -1.783043e+00  -1.2659767611       -3.749578e-02
## 5471     -5   10.1   -21   6.078947e+00  -0.2638888889        5.504368e-02
## 5472    -10   -4.0    -9  -1.382008e+00   0.1157024793       -3.311620e-02
## 5473      3    3.3    24  -1.265347e+00   0.1347318425       -1.777282e-03
## 5474     -5    1.0    55  -2.612028e+00  -0.4384171908       -1.106633e-01
## 5475    -10    3.3   110  -1.074958e+00  -0.8379396985       -7.028176e-02
## 5476      3   -2.3    25  -2.636341e+00   2.7992724358       -6.544116e-02
## 5477      5    3.1     8   4.209885e+00  -0.2301149425        9.107762e-02
## 5478      2   -7.1   231   3.589744e-01   3.0820512821        6.574322e-02
## 5479     -2    2.1   -21  -3.375661e+00  -1.2592592593       -2.986915e-02
## 5480     -2    5.7    27   3.391652e+00   1.1483766888        5.336958e-03
## 5481     11  -11.0   -98   9.759524e+00  -0.4504761905        1.108586e-01
## 5482    -20   -1.3     5  -4.357286e+00   0.4195468627       -4.819829e-02
## 5483      2   -2.4    20  -3.611917e+00   0.2253628724       -8.933273e-02
## 5484     -3    2.2   -90  -1.329070e+00  -0.5465116279        6.506338e-03
## 5485    -28    1.5    10  -9.478075e+00  -0.0884135472       -4.911063e-02
## 5486     -3    3.5  -231  -4.348101e+00  -2.1518987342       -1.095800e-01
## 5487      5    1.1   120   2.840144e+00   1.5997596154       -7.511057e-02
## 5488    -10    1.3    55  -1.907935e+00   1.2134711333       -4.327320e-02
## 5489     10    4.7   -37   8.830017e+00  -2.3742227247        1.439946e-01
## 5490     -3   -3.6    -4   1.595491e+00   0.2441202476       -8.133279e-02
## 5491      3   -5.4   -33  -2.161446e+00  -1.1059504132        7.973556e-02
## 5492    -13    0.1     5   4.312030e-01  -0.1113856069       -3.372694e-02
## 5493      6   -3.6    12   7.356551e+00   0.3978240847        3.613604e-02
## 5494      8    0.8   -39   2.939024e+00  -1.5511664899        5.398001e-02
## 5495      2   -0.7   -11   2.454788e-01  -0.0729473008       -3.371765e-02
## 5496     10   -4.3     9   2.365231e+00   0.2627967861       -3.156673e-02
## 5497    -10    6.0    14   3.613821e+00  -0.5153135093        2.113448e-02
## 5498     -5    2.2    17   2.170245e+00  -0.0615416070        4.125901e-03
## 5499    -11    4.1    -6   1.791885e-01  -0.8431937173        7.581075e-02
## 5500     -8    1.3    -9   8.004905e-01  -0.2289367665        4.045727e-02
## 5501      5   -2.3     4   3.738259e+00   0.1118226601       -5.587586e-02
## 5502     10   -1.3     6   3.240578e+00  -0.3354359630       -1.619348e-02
## 5503     -6   -1.7    -3  -6.950431e-02   0.0594468391        2.889158e-02
## 5504    -13    5.2     3  -1.368314e+00  -0.4243223683        7.103291e-04
## 5505     -2    0.0    -2  -3.017367e+00   0.1988235294        1.288044e-02
## 5506     10   -8.0    91   4.843546e+00   1.7589869281       -2.593922e-02
## 5507      8   -3.0    53  -1.488095e+00  -0.1369047619       -1.447540e-02
## 5508     -5   -3.1    13  -1.545732e+00  -0.1707317073        9.208392e-02
## 5509    -13   -3.1   -29  -2.924828e+00  -1.0640034364       -6.359522e-02
## 5510      8   -1.3   -33   9.088798e+00  -0.7838114754       -1.734763e-02
## 5511    -12    6.2  -137  -2.811321e-01   0.9756168360        7.335947e-02
## 5512      5    0.4    40   2.583114e+00   0.9200750469        7.877961e-02
## 5513     -7   -0.8    84   3.290020e+00   0.9740836197        2.738715e-02
## 5514     10    6.2    14   1.129808e+00  -2.0168269231        1.956978e-02
## 5515    -25    5.6    56  -6.610136e+00  -1.2399540758       -1.777189e-02
## 5516     -6    5.5   -43   8.067227e-01   0.2446311858        9.837205e-02
## 5517     11   -8.8    -7   9.670426e-01   2.8686716792       -4.321153e-02
## 5518      2    1.0    18  -9.174741e-01  -0.3218621227        1.902549e-02
## 5519     -2    1.1    12   1.549603e+00   0.1726190476        2.506497e-02
## 5520     18    7.3    45   4.346939e-01  -0.5334693878        2.155215e-02
## 5521     18    7.1    66   1.435075e+01   0.3241718238        1.378878e-01
## 5522     -5    4.4    22  -7.877764e-01  -0.8138820639        1.543630e-02
## 5523    -15    1.9   -18  -1.197427e+01  -0.1359271115       -2.254655e-02
## 5524      2    4.3    38  -1.820963e+00   3.2012236117        1.211586e-03
```

113

```
## 5525    -10    1.7    -69 -4.057696e+00 -0.3342304458            8.246648e-02
## 5526      5   -3.8    -82 -1.237356e+00 -1.4611318914            3.912589e-02
## 5527     -5    1.5      2 -9.260385e-01 -0.9853090172           -2.837131e-02
## 5528     -3    4.6     21  9.207176e-01 -0.2818287037            5.667041e-02
## 5529     -7    3.8     34 -7.695238e-01 -2.7228571429            1.501454e-03
## 5530     18   -5.6     33  9.411933e-01  2.3687571483           -9.628961e-02
## 5531    -15   -2.2     12  1.139394e+00  1.8363636364            5.408709e-03
## 5532     13    2.5    -71  5.437905e+00 -0.9341983318            8.741581e-02
## 5533     -5   -2.9    -73 -1.646429e+00 -1.5607142857            8.153459e-02
## 5534     30    2.3     42  1.516292e+01 -0.5156991603            6.229440e-02
## 5535    -15   -1.3    -42 -3.501397e+00  1.6961518923           -6.026885e-02
## 5536      0    0.4     -3 -5.760084e-01 -0.4697488584            3.898334e-02
## 5537     10   -3.0    -12  7.244755e+00 -0.5751748252            3.367178e-02
## 5538     15   -2.9     26  1.670818e+00  1.4231553893           -5.241260e-02
## 5539      5    3.2    -17 -5.150482e-01  2.1014245586            1.006372e-02
## 5540     10   -3.8    -41  7.457971e+00 -0.7625500878            5.695434e-02
## 5541      5   -1.0     39 -1.638047e-01  1.3980320278           -2.669924e-02
## 5542     -3    2.5    -16 -3.912657e+00 -1.5817567903           -2.141761e-02
## 5543     15    0.9    -44 -2.176471e+00 -0.5294117647           -3.057028e-02
## 5544     -2   -1.1    -21  5.653958e+00  0.2120334620            9.748733e-02
## 5545     -5    0.9    -34  4.792727e-01  1.8792727273           -9.311166e-02
## 5546    -12    1.8    -12 -4.417610e+00  0.3786163522           -2.813620e-02
## 5547     -7    7.1    -16  8.919123e-02 -1.3000755858            2.752985e-02
## 5548     -7   -1.8    -40 -2.470696e+00  1.2936507937           -3.738915e-02
## 5549    -12    2.2      8 -1.331271e+00  0.2252530934           -3.080387e-02
## 5550     -3    6.0    -59  1.687923e+00 -0.2415458937            4.959625e-02
## 5551     -8   -4.5     44 -1.787561e+00 -1.2065853659           -5.874600e-02
## 5552     -3   -6.2     34 -4.424658e+00 -0.9452054795           -8.479657e-02
## 5553      8   -0.3     32  5.144599e+00  0.2578397213           -7.608437e-02
## 5554     10    0.3    -10  2.214329e+00 -1.0288834456            1.309485e-02
## 5555      0    0.1     65 -2.028788e+00 -0.1079545455           -1.315995e-02
## 5556     -2   -1.1     15 -3.538748e+00 -1.0925856930           -4.235625e-02
## 5557      8   -0.6      4  4.977104e+00 -1.7336700337            4.652034e-02
## 5558     14    6.4     23  1.333333e+01 -0.3571428571            1.263903e-01
## 5559     -5    9.4     22 -1.427572e+00  2.0549450549           -4.873997e-02
## 5560    -10    9.1    -85 -2.969484e+00 -1.6158059468            2.895579e-02
## 5561    -10   -3.6    -34 -1.140110e+00 -0.2827172827           -3.503757e-02
## 5562      5   -4.3   -178 -8.888889e-02 -0.5666666667            2.614060e-02
## 5563     -3    1.0    -85  9.859641e-01 -0.6586516337            3.579623e-02
## 5564      5    5.7   -101  2.710823e+00  0.4523809524            1.003238e-01
## 5565      2   -5.9     65 -2.795918e+00 -1.1564625850           -3.644854e-03
## 5566     -5    0.3     33 -1.959568e+00  0.6425583827           -5.864162e-02
## 5567     -5   -5.0    -41  5.413322e+00  0.1405878290            2.375313e-02
## 5568      0   -0.6     14  1.078703e-01  1.2276154980           -1.239069e-02
## 5569     -3    5.9    -30  1.261345e+00  0.1494456763            4.586043e-02
## 5570      0   -2.6     69  3.973529e+00  0.4945378151            3.604120e-02
## 5571     10   -5.3      2  3.840468e+00 -1.4277777778           -4.211797e-02
## 5572    -12  -11.8    -65 -2.627451e+00  0.1960784314            2.563650e-02
## 5573     10    1.9     31  6.661765e-01  0.0357843137            5.716163e-02
## 5574    -18    7.5     65 -2.833333e+00  0.9358974359           -5.243036e-02
## 5575      8   -9.5   -116  3.291866e+00  0.6650717703            3.693615e-02
## 5576     -3    4.9    -42 -2.922890e-01 -0.9814123377            1.690893e-02
## 5577      8    0.6     14 -1.725835e+00  2.0253970427            2.354857e-02
## 5578     15   -5.3     92  5.080452e+00  0.0864276569            9.391500e-03
## 5579     10   -1.7     26  3.486466e+00  1.4216165414            1.738248e-02
## 5580      0   -1.9     27 -3.786098e+00 -0.9504608295           -1.301805e-02
## 5581     11   -9.4    -23  1.165920e+01  0.6112252852            1.308734e-01
## 5582      0    8.6     27  1.230725e-01  0.1305682467            5.104405e-02
```

114

```
## 5583    -8    6.3   -27  2.912965e-01   0.3858007705       1.589882e-02
## 5584    -8    6.2  -111 -6.244828e+00  -2.0827586207       2.149707e-02
## 5585     3   -0.5    10 -2.233854e+00   0.0999224549      -3.947618e-02
## 5586    10    0.3    29  3.391551e+00   1.4791401869      -8.478266e-02
## 5587     0   -4.9   -24  2.244498e+00   0.1594202899       7.938417e-02
## 5588     7    5.7    -6 -2.822708e-01  -0.9357218124       6.046364e-03
## 5589    -2    1.5     5 -8.194965e-01  -0.0196000319      -6.102152e-02
## 5590     0   -2.3   -23 -4.453515e+00  -1.5340136054      -5.992227e-03
## 5591    -5   -6.9  -121 -5.159399e-01  -0.2373491008       5.471694e-02
## 5592    18    8.2    76  9.877378e+00   0.2120771670       1.285072e-02
## 5593    11   -2.5     8  1.137706e+00   0.3700026130      -3.951714e-03
## 5594    -3    0.2    16  3.411745e+00  -0.5211878545      -4.058571e-02
## 5595     3    4.7    -4  4.107793e+00  -0.8341208341       5.162411e-02
## 5596    -8   -5.5   -43  4.379747e+00  -1.2239803094       2.581008e-02
## 5597    -3    0.5    -9  2.237659e+00  -0.0776730700       3.897744e-02
## 5598    12    3.6   -18  1.217349e+00  -2.3912176724       7.853862e-02
## 5599     5   -7.8  -109  2.862720e-01   0.5699414444      -4.801773e-02
## 5600     3    1.2   -19  1.595024e+00  -0.1915004942       5.145507e-02
## 5601    -3    1.4   -47  1.219512e-01  -1.1829268293       1.016828e-01
## 5602    11  -12.1   -23  1.078049e+01  -0.1997342089       8.453605e-02
## 5603    -5   -4.2     7 -2.835967e+00  -1.0061330561      -6.965479e-02
## 5604    -3   -2.8    54 -4.721203e+00   0.8688012495      -3.159967e-02
## 5605   -13    1.1    26 -5.650718e+00   0.5465587045      -6.317342e-02
## 5606    -8    9.9    78  9.166667e-01   1.4291666667      -2.574770e-02
## 5607     0    1.9   -49  3.462316e-01   0.3898513763      -9.759858e-03
## 5608   -10    0.5   -49  9.503687e-01   0.5082246171       1.408614e-03
## 5609     0    1.4   -38  3.616464e+00   0.6355547877       9.591439e-02
## 5610     3   -7.2    50  3.883576e+00   1.2117117117       4.314720e-02
## 5611   -10    3.9    -3 -5.885787e+00   0.6820623459      -1.765654e-02
## 5612     0    5.3    38  2.871795e-01  -0.0798534799      -5.349106e-02
## 5613     5   -2.1    -8 -2.193944e+00  -1.4778840564      -1.428352e-02
## 5614     5    0.7   -90 -7.944376e-01  -0.0030707142      -3.731062e-03
## 5615    -5  -10.6    24 -4.770736e+00  -0.0659366263      -5.428261e-02
## 5616     3   -4.1   -17  3.531644e+00   0.1396307428       2.045131e-02
## 5617    -5    1.3   -59 -1.004089e+00  -1.4006133401       7.725179e-02
## 5618     0    3.6   -46  1.573625e-01  -2.3613571787       8.207250e-02
## 5619    -5    4.3    48 -1.453830e+00   0.0702265372      -1.288785e-01
## 5620     5    0.4   -62  1.161130e+00  -0.1774011299       7.901620e-02
## 5621     3    7.5    17 -2.638234e+00  -0.1333857442      -7.821994e-03
## 5622     5   -1.9    15  6.685839e-01   1.3354925173      -2.871431e-02
## 5623    -5   -2.8  -134  3.415063e+00  -0.9599627561       2.457219e-02
## 5624     3   -4.9   -17  6.684524e+00   0.2440476190       9.033871e-02
## 5625   -20    3.9    -8 -6.422959e+00  -0.1198266219      -1.206815e-02
## 5626     5    5.5    51  2.443230e+00   0.2082574378       2.980394e-02
## 5627     2    1.3   -36 -4.900590e+00  -0.8259507830      -7.626963e-03
## 5628     8   -3.7     1  6.722482e+00   1.4160097324       8.218780e-02
## 5629    -2   -7.7  -108 -1.652421e+00   0.8501932257       3.291509e-03
## 5630    -8   -1.9    34 -6.720893e+00   0.0276480887      -7.678384e-02
## 5631    11   -1.8   -51  4.827380e+00  -0.3367298010       6.049901e-02
## 5632    -5    6.0    35  9.594869e-01   0.0878893886      -8.130569e-02
## 5633     7   -2.2   -13  7.582761e-01  -0.1706507805      -1.297222e-02
## 5634    16   -6.5     6  7.769078e+00   0.5358490566       7.692138e-02
## 5635    -5    2.8    21 -5.998039e+00   0.2576470588      -7.818017e-02
## 5636     2    2.6    71 -9.106102e-01   0.4615235134       1.903289e-02
## 5637   -10    6.1     4 -1.049275e-01  -0.0634782609       8.595605e-03
## 5638   -18   -4.3    11 -5.268200e+00   0.6923076923      -5.420160e-02
## 5639     2    3.6    27 -8.261435e-01  -0.8530405405      -5.375386e-02
## 5640     6   -3.6    12  7.195217e+00   0.3938808542       3.970888e-02
```

```
## 5641      0    3.6    23   9.060067e-01   1.1033267495    -9.098260e-03
## 5642      5    4.5    29   4.651863e+00  -0.0353736971     1.875024e-02
## 5643      0    2.1     5   5.332619e+00  -0.1935295427     3.436066e-03
## 5644     18   -1.0    -2   1.237521e+01  -0.1670064560     1.269252e-01
## 5645      5   -3.6    -5   3.279742e+00  -0.8982322026     3.563481e-02
## 5646     -5    2.8   -29   3.770407e+00  -0.5409756098     5.742926e-02
## 5647      8   -6.3   -56   2.184516e+00  -2.3657993747     3.167456e-02
## 5648     -2    1.5     5   2.582609e+00  -0.9000000000     3.705803e-02
## 5649    -10   -0.8    32  -2.391667e+00  -1.3011904762    -1.094738e-01
## 5650     -3    9.1   -18  -1.468887e+00  -0.2279393487    -8.817187e-03
## 5651      8    1.7    11  -8.113730e-01   1.0832991803     4.433356e-02
## 5652      0    3.6    17   8.772392e-01   0.3288549350     5.023996e-03
## 5653      5    1.1    48  -7.144578e-01   0.9987951807    -8.795755e-02
## 5654      5    2.2   -64  -1.928784e+00  -0.7326302730     1.211601e-02
## 5655    -18    4.9    -1  -7.179803e+00  -0.5731527094    -3.993556e-02
## 5656     11   -5.1   -48   3.523510e-01   1.9398023360    -5.286969e-02
## 5657     -5   -2.0     9  -4.415975e+00   1.1543466224    -5.782973e-02
## 5658     -2    5.4    46  -1.045809e+01   0.1791075897    -1.582780e-01
## 5659     -3   -3.6   -93  -8.329139e-01  -0.6344370861    -3.621971e-02
## 5660     10   -3.6     2   4.085779e+00  -0.1268858498     1.038017e-02
## 5661      2    1.0    22   1.869048e+00  -0.6071428571    -5.716813e-02
## 5662     -5   -7.4   -10   1.227273e+00  -1.5606060606    -6.817193e-02
## 5663      5   -8.5    35  -4.345611e-01   1.1101097179    -3.318893e-02
## 5664     -3   -2.1    24  -8.009831e+00  -0.8300060496    -9.535805e-02
## 5665      8   -5.4    16   4.517179e+00  -0.1872739602     8.400988e-02
## 5666     -5   -2.0    61  -3.576532e+00   2.0316502593    -1.165976e-01
## 5667      5   -1.5    27  -4.008290e-01  -0.7827433418    -9.175232e-02
## 5668      8    0.8   -18   3.110215e+00  -1.1466973886     5.381740e-02
## 5669      3    0.3    13   3.015858e+00   2.1115187377     5.192500e-02
## 5670     -3   -3.8     2   3.551806e+00   0.4706650315     1.594246e-02
## 5671      0   -7.5   -28   1.408766e+00  -0.6605988024     2.317470e-02
## 5672      3    1.1   -26   5.698465e+00  -0.3300874732     8.453127e-02
## 5673     -8    4.0   -46   2.459357e+00  -2.2238078035     1.245682e-01
## 5674    -13    5.6    22  -7.769392e+00   0.1317374933    -1.068024e-01
## 5675     20    2.3     7   8.649228e+00   0.5773487773     7.629581e-02
## 5676     -6    1.6    19  -3.333915e+00  -0.1365467240    -5.254082e-02
## 5677     13   -1.6    23   1.203932e+00   0.2959376016    -1.714105e-02
## 5678     -8   -4.1    95  -2.752941e+00  -1.6059701493    -9.086993e-02
## 5679    -10   -2.1   -10  -4.218749e+00  -1.1677310924    -1.598331e-02
## 5680      0    4.0   -54  -1.328571e+00  -0.7303571429     4.982654e-02
## 5681      2    3.6   -16   1.001498e+00  -1.0642912976     3.685688e-02
## 5682     10   -4.8    -7   1.622903e+00  -1.6023320571    -2.095632e-02
## 5683     10    1.5   -17  -5.987654e-01  -0.4111111111     5.857773e-02
## 5684     21   -6.4   -29   1.210921e+01  -0.5471438076     8.252833e-02
## 5685     -5   -0.1    30  -2.973766e+00   0.5967545639    -8.636320e-02
## 5686      2   -2.0    15   3.406703e+00   1.2182381107     1.823237e-02
## 5687     -8   -6.3   -12   1.027796e-01  -1.5357142857    -3.146865e-02
## 5688      0   -5.7   -27  -6.156060e+00  -0.9290022773     6.043313e-03
## 5689    -13    7.1   -15   1.057578e+00  -1.1467980296     8.685429e-02
## 5690     -5    8.4    38  -3.482012e+00   0.5991647453    -4.086647e-02
## 5691      8   -0.4     1  -2.306869e+00  -0.0677344877    -3.827679e-02
## 5692      0   -9.2   -19  -2.149918e+00  -1.2013945857     1.115561e-02
## 5693      5   -5.7     2  -2.427817e-01   0.9067550097    -4.910292e-02
## 5694      8    1.7     5   3.016279e+00  -0.2437539812    -3.494808e-02
## 5695      2    0.1     1   2.884786e+00  -0.1712629590    -1.839889e-02
## 5696    -13   -0.5    -2  -3.048643e+00   0.0045248869     9.275210e-02
## 5697     25    6.6    51   1.444640e+01   1.2258754344     1.295058e-01
## 5698      0   -1.9    56  -3.490196e-01  -0.3739130435     2.092655e-03
```

```
## 5699     3    0.3    -66   5.265174e+00  -0.6171165240        2.219024e-02
## 5700     4    1.6      5  -2.173932e+00   0.2440170940       -9.526969e-03
## 5701   -15    1.6    -83  -3.043860e+00  -0.3732943470        8.023785e-04
## 5702    13    2.4    -47  -2.974182e+00  -1.3442340792        5.681734e-02
## 5703   -15   -0.9     -6  -1.047354e+01  -1.1481481481       -7.330538e-02
## 5704    -5    0.2     54  -7.119666e-01  -0.8585343228       -1.881370e-02
## 5705     3   -3.2     15  -1.184332e+00  -1.0506912442       -6.121560e-02
## 5706    -2    8.0    -21  -2.205797e+00  -0.9927536232       -3.670264e-02
## 5707    -3   -5.5     12  -2.259259e+00   1.7641325536        9.831686e-02
## 5708    13   -7.4    -36   4.545617e+00   1.5305903399        1.493478e-02
## 5709   -13    6.9     40  -2.848810e+00   2.4934523810        3.005288e-03
## 5710     5    4.8    -29   1.531627e+00  -1.6399271612        1.449418e-02
## 5711    -2   -6.2     10   1.048670e+00   0.7355613238       -1.956493e-02
## 5712    11    0.1     22   2.045987e+00   0.6739130435        6.880171e-02
## 5713    23   -5.2    -64   4.552257e+00  -0.9016697588        1.282989e-02
## 5714    -5    6.3    -30  -5.137343e+00  -1.0691729323        1.754934e-02
## 5715    -8    0.2     18  -2.237925e+00   0.4239713775        4.844663e-02
## 5716    15    5.4     -2  -7.602339e-02   1.6228070175       -1.466670e-02
## 5717     3    0.1     13  -1.690476e+00  -0.7261904762        1.891145e-02
## 5718    -7    2.9    -29  -7.863409e-01  -0.6196741855        6.437653e-02
## 5719    -5    2.1   -143   8.797400e-02   0.3394366197       -8.468571e-03
## 5720    -3   -7.1    -33   3.230736e+00  -0.5510116229        5.749455e-02
## 5721    10   -2.2     45   3.371128e+00  -0.8080752212        5.417215e-02
## 5722   -10    3.5    420  -6.231609e+00  -2.3247126437       -3.177979e-02
## 5723    -8   -4.9    -95   3.871494e+00  -0.0718667835        2.252778e-02
## 5724    10   -0.7    -50   7.245130e+00  -0.5468073593        1.554388e-01
## 5725    -2    1.2    103   8.484528e-01   0.9486792453       -9.768011e-02
## 5726    30    4.2     34   1.534567e+01  -0.1997885835        4.722560e-02
## 5727     5   -4.3     58  -4.730084e+00  -1.0316108828       -7.140705e-02
## 5728    15   -4.2    -44   5.599084e+00  -0.3980379333        4.025391e-02
## 5729    15    6.7    -67  -2.295556e+00  -2.7577777778        5.261667e-02
## 5730    10   -2.0     44   8.958333e+00   0.5881164966        5.514571e-02
## 5731     2    1.6     21  -4.144565e+00  -0.3417167494       -1.419088e-02
## 5732   -10    8.5    -31  -5.522727e+00  -1.0227272727       -2.004864e-02
## 5733     8    1.1     45   7.061421e-01   1.7458851867        7.007944e-02
## 5734     5   -0.4    -63  -2.769813e+00  -1.4727769603       -3.398355e-02
## 5735    -5    1.2    -50   2.264368e+00  -0.8505747126        4.436730e-02
## 5736    -8    2.1     83  -2.674185e+00   0.5685045948       -6.642280e-02
## 5737    13    9.5    -49   2.171429e+00   0.4500000000        6.366817e-02
## 5738     0   -3.5     52   3.910948e+00   0.0514705882        9.029343e-02
## 5739     6    2.5    -81   2.858824e+00  -0.4208823529        8.106664e-02
## 5740   -10    4.2   -150  -2.648592e+00  -1.7759562842        1.816159e-02
## 5741    20    4.8     14   1.314429e+01  -0.2002759708        9.167621e-02
## 5742    -5    0.7    -85   3.772214e+00  -0.1099126862        7.360889e-02
## 5743     4   -3.1    -47   3.629686e+00  -0.5837554880        1.054800e-01
## 5744     8    5.0    -62   7.739416e-01  -1.3975941259        2.155751e-02
## 5745   -10    1.4      1  -1.167692e+01  -0.2666666667       -7.681243e-02
## 5746   -11    1.5     24  -2.029630e+00  -0.4148148148       -9.074538e-02
## 5747     3   -4.5    -90   2.009118e+00  -1.4129411765        4.398571e-03
## 5748    -5   -8.5     50   9.526761e-01  -1.0619718310       -8.160119e-02
## 5749   -10   -4.2     38  -5.601732e-01   1.0904761905       -2.403297e-03
## 5750   -13    3.3     21  -3.699037e+00   0.3172772501       -4.384665e-02
## 5751   -20   -8.9    -89  -1.129480e+01   0.2125295508       -7.452892e-02
## 5752     5    0.1    -26   2.975333e+00  -0.5940849800        8.311830e-02
## 5753    -5    5.4     73   6.503698e+00   0.9152946791       -2.670574e-02
## 5754    -5    0.1     87   7.532258e-01   0.8020161290        1.346668e-02
## 5755   -13    0.1      6   4.120240e-01  -0.0782966356       -3.630821e-02
## 5756    -3    2.3    -61  -8.846154e-01  -0.3883575884        3.887746e-02
```

```
## 5757    2    3.9   -16 -1.948808e+00 -0.6669375226        -1.336555e-02
## 5758   -8    0.4     1  2.255552e+00  0.0902110796         3.949893e-02
## 5759  -15    2.0    62 -2.089120e-01  0.3289930556        -6.904595e-02
## 5760    7   -1.2   -99  1.630032e+00 -0.3347423510         8.629302e-02
## 5761    5    3.8    46  4.569264e+00 -0.2424242424        -1.240544e-01
## 5762   10   -6.0   -12  2.585449e-01  0.0906970485        -1.575144e-02
## 5763    0    5.5   149 -5.766209e+00 -0.7638134781        -4.180040e-02
## 5764    5   -3.1   -81 -3.895767e+00 -1.4671273635        -6.498753e-03
## 5765    5   -1.2    92  1.107143e+00  0.8802179963        -5.036703e-02
## 5766    8   -1.5   -90  1.048008e+00  2.0419556644         6.321445e-02
## 5767   -8   -0.8    16 -3.072551e+00  1.1593567251        -4.690495e-02
## 5768    3   -7.6   -48  2.560172e-01 -0.3026758101         5.885921e-02
## 5769    3    7.2    69 -7.932583e+00 -0.3236860186        -4.512414e-02
## 5770   10   -2.7   -88  1.337037e+00  0.4392592593        -8.404950e-03
## 5771   -3    0.5   -10  2.230366e+00 -0.0745202123         4.363667e-02
## 5772   28    2.0   -33  1.365653e+01 -1.7037895311         1.580196e-01
## 5773    0    4.9    -5 -3.126566e+00 -1.1961152882        -1.273666e-01
## 5774    0    1.7   -15  2.437752e+00 -0.0311960897         4.216089e-02
## 5775    3   -4.7   -51  3.240741e+00  0.4703703704         8.564690e-02
## 5776  -13    5.8   -42  1.200325e-01 -0.9302792085         4.376346e-02
## 5777   15   -2.1    11  3.015295e+00  1.3652554342         5.363021e-02
## 5778   -3    3.8   -19 -1.731746e+00  0.3551226551        -1.608662e-02
## 5779   10   -4.9   -10  1.616279e+00 -1.6104651163        -2.225003e-02
## 5780  -13   -5.5   -42 -6.226381e+00 -0.3453654189        -4.481713e-02
## 5781    7   -1.3     6 -1.110757e+00 -0.0518867925        -3.569184e-02
## 5782   26    5.6   -34  1.166435e+01 -2.3444195062         3.893791e-02
## 5783    2    0.8    20  1.137683e+00 -0.7638669562         7.725112e-03
## 5784   -8    3.4    -7 -4.889683e+00 -0.0254092463         6.615941e-02
## 5785   15   -3.8   -96 -1.089191e+00 -0.6161849711         1.030769e-02
## 5786   10    2.6     4 -4.624923e+00 -0.4988127693        -4.979057e-02
## 5787   -3   -9.6     7 -8.600000e-01  2.0666666667         5.204533e-02
## 5788    8   -2.7   105  4.552421e+00  1.0572358606        -6.269979e-02
## 5789    3    7.5    17 -2.627077e+00 -0.0742752905        -2.074535e-02
## 5790    5   -6.6    16  4.946537e+00  0.5793290043        -6.922448e-02
## 5791   -7    0.1    82 -1.848938e-01  1.2795174403        -1.366866e-01
## 5792   10   -3.3   -22  3.638315e+00 -0.0702553261         7.770916e-02
## 5793   -5   -5.5   -15  1.797854e+00 -2.4586109543        -1.269979e-02
## 5794    6   -5.2    24  3.201699e+00  2.3853503185        -2.100121e-02
## 5795    5   -3.8   -25  4.299572e+00 -0.6556637043         4.826250e-02
## 5796    0   -9.2    36 -1.187500e+00 -0.0703125000        -6.525583e-03
## 5797   -5   -5.2    30 -2.195521e+00  0.7839506173         1.580327e-02
## 5798  -10   10.3   -21 -1.231078e+00  0.6423288749        -2.632072e-02
## 5799   10    6.3   -56 -7.736310e-01 -1.9507822686         4.079653e-02
## 5800   -3    1.8    84 -3.135741e-01 -0.8500622665         2.854602e-02
## 5801   -5    0.8   -36 -9.797619e-01 -0.4226190476         7.868704e-02
## 5802   -4    1.8   -23 -5.037252e-01 -1.1370033113         6.010406e-02
## 5803   18   -4.8    -4  7.270081e+00  0.5549045549         4.341429e-02
## 5804    5   -6.5    21  5.007102e-01  0.3039772727        -8.471168e-02
## 5805  -13    4.9    46 -5.241602e+00  0.3863049096        -9.599233e-02
## 5806   -3    6.4   -33  1.416060e+00 -1.3089940669         1.108754e-01
## 5807   -6    7.0    21 -2.981987e+00  0.3977097272         2.556255e-02
## 5808    7   -0.6    59  3.050560e+00  0.9070028011         1.803265e-02
## 5809   -3    9.4   -25  6.178862e-01  0.3751181698        -4.002511e-02
## 5810   -5    5.4   -88 -1.458974e+00 -0.8730769231         5.982598e-02
## 5811    0    4.8   136 -1.912933e+00  0.8648562975        -3.580613e-02
## 5812    9   -0.8   -12  6.276674e+00 -0.0914943158         5.227311e-02
## 5813   -8    3.4    49 -3.493980e+00  1.0377926421        -1.434895e-01
## 5814   11   -7.8    45 -2.901392e-01  3.0019892015        -1.528176e-01
```

```
## 5815      3  -9.3  -39  4.499537e-01 -0.7877664504       -1.803003e-02
## 5816     -2   4.0   14 -1.488310e+00  0.2663919071       -3.757989e-02
## 5817      5   2.4   31  2.546361e+00  0.5062595420       -5.887057e-02
## 5818      0  -0.5  100 -2.257892e+00  2.6279934688       -6.124302e-02
## 5819    -13   2.3    5 -2.470362e+00  0.0919723551       -3.112383e-02
## 5820    -13   7.2   -7 -1.845523e-01 -0.7511961722        4.635992e-02
## 5821      0   0.5  -12 -2.323214e+00 -0.6251785714       -8.401997e-03
## 5822    -16   3.3   -4 -6.055072e+00 -0.9739130435       -2.478267e-02
## 5823     15   1.6    4  4.250971e+00 -0.0306919388        1.712396e-02
## 5824      0  -5.3    7 -7.107787e-01  1.7951668585        6.871401e-04
## 5825      2   6.2  -18  3.552707e+00  1.4002849003        6.358285e-02
## 5826      5 -10.0   25  6.541353e-01  0.6635338346        5.025719e-02
## 5827     10   1.2   57  1.396450e-01 -0.5278106509        5.137388e-02
## 5828      8  -4.1   -4  1.560027e+00 -1.1663405958        1.907768e-02
## 5829      0  -6.4   12 -7.794966e+00 -0.3510450397       -4.510548e-02
## 5830     -5   3.6   11 -3.377613e+00  0.9202372128       -4.004208e-02
## 5831     -7   3.8    3  5.259585e-01  0.3178315905        4.976075e-02
## 5832      5   0.1  -28  9.628398e-01 -0.8982070561        4.478110e-02
## 5833     -5  -5.2  -53 -3.071852e+00 -0.2762536428       -6.744287e-02
## 5834      0   3.7   36 -3.501244e+00  0.1695702671       -7.336204e-02
## 5835     10  -3.9   -2  6.022238e+00 -0.6282514451        1.666116e-02
## 5836    -15  -3.4  -41 -6.459627e-02  0.7614906832        5.507093e-03
## 5837     18   0.6   28  5.108929e+00  1.5196428571       -2.155620e-02
## 5838     18   0.1   27  5.128672e+00  0.4329865361       -1.668901e-02
## 5839     -6   1.5   16 -3.322512e+00 -0.1305031447       -6.578717e-02
## 5840     -5   5.3   61 -2.032115e+00  1.7758893281       -5.307917e-03
## 5841     -5   2.1  -54 -3.560920e+00 -2.0137931034       -1.638287e-02
## 5842      3  -7.1   45  4.123684e+00  1.1705108359        4.168094e-02
## 5843    -10   3.2  -66 -1.433772e+00  0.0867955574       -3.842987e-02
## 5844     -3   3.3   30 -3.403779e+00  1.3271055628       -8.940095e-02
## 5845      5  -2.4   35 -5.001458e+00  0.9048500140        2.745644e-02
## 5846      0  -2.2  -37  3.683712e+00 -0.1497564935        1.273042e-01
## 5847     15  -4.0   19  3.099710e-01  0.1232461994       -1.208092e-01
## 5848    -13   4.9   48 -5.170344e+00  0.3413367943       -9.416906e-02
## 5849    -16   4.9  110 -8.041503e+00  0.6900871460       -5.011569e-02
## 5850      8  -3.9  -20  7.368664e+00 -1.0512672811        4.985690e-02
## 5851    -10   0.4  -21 -6.404651e+00 -0.9937449880        1.522422e-02
## 5852      7  -0.7   33  2.946852e+00  0.4522238164       -2.342810e-02
## 5853    -13   3.5  -66 -2.580835e+00 -1.9159705160        2.202282e-02
## 5854      5   0.2    1 -4.733243e+00 -0.1507439855       -3.850836e-02
## 5855     -5  -0.4    6 -1.840713e+00 -0.1762509335       -7.805646e-02
## 5856      8  -3.0   12  3.628567e+00  0.3680906713        4.779863e-03
## 5857      8  -8.4 -113 -1.824669e-01 -0.8585796806        1.904735e-02
## 5858     -2  -3.2   -9  3.744575e+00 -0.6983876834        4.670535e-02
## 5859    -13   0.7   14 -3.031583e+00  0.0390147429       -5.743548e-02
## 5860    -23   6.4  -60 -4.260582e+00 -1.9074074074       -1.867654e-02
## 5861    -13   3.0   -2 -6.739763e+00 -0.2187017570       -1.051879e-02
## 5862      8  -7.4  -98  2.960792e+00  0.4828695114        8.202771e-03
## 5863    -20   5.9  -49 -6.463898e+00 -1.8532326569       -3.140477e-03
## 5864    -15  -1.9 -116 -5.034226e+00 -0.9065717503        1.957438e-02
## 5865    -28   8.6  -64 -7.992381e+00 -1.8041269841        8.464920e-02
## 5866      0  -0.6   79 -2.836092e+00 -1.9211267606       -3.792785e-02
## 5867     -2   2.9   13  2.814274e+00 -2.2069107363        1.020381e-02
## 5868      0  -0.4   -6  3.210227e+00  1.4722222222        1.941977e-02
## 5869      3 -10.0  -45  2.119721e+00  1.2090920832        3.471888e-02
## 5870    -16  -4.3  -30 -1.895575e+00  0.1780530973        1.963311e-02
## 5871     -2  -4.2   29 -1.451380e-01 -0.3656638228        4.770419e-03
## 5872     10   3.9  -50 -1.732666e+00 -0.6929922136       -3.210256e-02
```

```
## 5873     3  11.3 -108  5.429505e-01 -1.4112978525     -1.433316e-02
## 5874     8   3.0   59  8.963511e-01 -1.2184029614     -8.845745e-02
## 5875    -2  -6.0  -13  1.758721e+00  0.0058139535      1.025648e-01
## 5876    -8   5.5   40 -4.791667e-01  1.7638888889      2.253470e-03
## 5877     5   7.3   23 -4.835294e+00 -0.5314401623     -3.021972e-02
## 5878    -2  -7.6  -95 -1.693182e+00  0.7418261563     -2.641012e-03
## 5879    -7  -1.7    8  3.134419e+00  1.2334360555     -1.997885e-02
## 5880    -2  -1.1  -38  1.713544e+00 -0.2331344058      1.255692e-02
## 5881     3   9.6  -17  1.016640e+00 -1.9443993506     -5.735319e-02
## 5882     8   0.4  -35  8.522081e+00 -0.3614640048      8.491300e-02
## 5883     2  -0.7  -40  1.060704e+00  0.6257053292      6.919868e-02
## 5884    -2  -1.1    1 -5.735266e+00  0.1938977879     -1.841141e-02
## 5885     0  -0.5   20  2.343548e+00  0.6192032686      1.258922e-02
## 5886    -5  10.0  -19 -8.465543e-01 -0.5934750733     -4.153858e-02
## 5887    12   2.6  -16  5.166911e+00 -0.5089875275      7.512667e-02
## 5888    -5   5.9  -12  5.107024e-01 -0.3084552131     -2.947963e-02
## 5889     2   4.0  -45  1.011640e+00 -0.8566137566      2.740712e-02
## 5890     0  -1.6  558  1.151720e+00 -0.1677917068      2.754238e-02
## 5891   -21   2.7 -162 -8.455872e+00 -2.0112413298      7.107041e-02
## 5892     5   1.1   14  1.529101e+00  1.8227513228     -9.661078e-02
## 5893     3   8.3   -7  7.700000e-01  0.7500000000     -2.065005e-02
## 5894     8  -3.6   64  2.396241e+00 -0.6957393484      1.456389e-03
## 5895    -5   6.1   14 -1.931818e-01 -0.1996047431     -8.020829e-02
## 5896   -10  -2.0    8 -5.154553e-01  0.6524644946      4.657896e-02
## 5897   -16  -0.5  -31 -5.604232e+00  0.0540752351     -1.234822e-01
## 5898   -18  -1.0  -23 -5.192124e+00  0.0320675105      7.200463e-02
## 5899     5  -1.0  -40 -3.527967e+00 -0.2105580088      2.473693e-02
## 5900    23  -5.5  -48  6.773893e+00  1.1828470825      8.131359e-03
## 5901    20  -0.1   18  2.144654e+00 -1.6514117490     -4.844534e-02
## 5902     2   0.2  -14  2.065764e+00  1.4008704062      3.558972e-02
## 5903    -2   0.6  -34  6.299629e+00 -1.4234800839      8.539861e-02
## 5904    -7  -3.1  109 -5.102171e+00  1.1277139208     -9.347392e-02
## 5905    -8   0.4 -121 -1.686222e+00  0.6232592593      7.949457e-02
## 5906     3   7.2   24 -8.113590e-01 -0.6947261663     -6.251083e-03
## 5907     5  -1.3   52  1.132408e+00  0.9108834545     -4.551954e-02
## 5908   -16   0.6  658 -4.318061e+00 -0.6221754714     -5.078868e-02
## 5909    18  -6.4  -37  4.553249e+00 -1.7506450856      2.602556e-02
## 5910     5   1.0   43  4.500775e+00  0.2403100775      1.842150e-02
## 5911    -3  -4.4  -25  2.428448e+00 -1.5925155925     -5.133494e-03
## 5912     5  -2.7  -88  5.133902e-01  0.1258848614      1.285963e-02
## 5913    -5  -0.6  -10 -5.163420e+00  1.6287878788     -5.082091e-02
## 5914   -21   4.1   62 -5.043056e+00 -1.5569444444      1.540154e-02
## 5915     9   2.3  -30  3.168224e-01 -0.5084112150     -1.086009e-01
## 5916     5  -4.1   93 -1.400417e+00  1.6397519128     -1.179183e-01
## 5917     0  -5.5  160 -3.529487e+00  0.7269230769     -8.937991e-02
## 5918    13  -3.6    9  4.170973e+00  0.6132218845      1.062749e-01
## 5919     5  -1.0  -19  1.506778e+00 -0.6198063380     -2.863373e-02
## 5920    -8  -0.5  -93  2.522480e+00 -0.4656556646      5.051296e-02
## 5921     7   3.4  -10  1.494915e+00  3.4559322034      3.972034e-02
## 5922    13   2.5  -74  5.596154e+00 -0.4471153846      7.688769e-02
## 5923    -2  -0.6   32  6.946606e-01  1.8588107098     -5.071792e-02
## 5924    15  -2.9   57  1.562475e+00  1.4659296561     -5.965454e-02
## 5925     2   4.3  -69  8.390272e-01 -0.5095541401      7.130067e-02
## 5926     8   1.7  -13  1.822278e+00  0.0230741410      3.886782e-02
## 5927     2   0.2  -51  4.002390e+00 -0.5695424539      9.950125e-02
## 5928     2   0.3  -45 -2.172414e+00 -0.2298850575      6.074354e-02
## 5929    13  -1.1  -33  5.418124e+00  1.8259141494      9.292995e-04
## 5930    -8  -0.3  -59  3.936404e-01 -0.6644736842      1.307411e-01
```

```
## 5931      1   -5.1    77  -9.479167e-01   0.7500000000      -1.687907e-03
## 5932     -5    4.3   -40  -6.322590e-01   1.7477956826       9.178397e-02
## 5933     -3    3.8   -71   4.736327e+00  -0.4283246978       5.612473e-02
## 5934      3   -0.9    76   8.600150e-01  -0.5626873127      -1.794612e-02
## 5935      0   -1.4    41   7.314286e-01   0.1596428571      -7.165946e-02
## 5936     -3   -0.8   -39   6.606320e-01  -1.0122513343       4.206543e-02
## 5937    -11    1.1  -143  -3.405901e+00  -0.8448963317       5.673131e-02
## 5938      7   -5.0   -34   3.075472e+00  -0.8347555036       5.714205e-03
## 5939    -16    5.8    17  -3.276667e+00  -1.0037500000       2.998152e-02
## 5940      0   -4.1    13   3.898246e+00   0.6935672515       4.706213e-02
## 5941     -2    5.9     9  -3.468128e+00   0.3187200806      -2.093412e-02
## 5942     -5   -4.1    10  -5.037401e+00  -0.1799370220      -4.868740e-02
## 5943      8    3.0   -18   1.849938e+00  -1.8154836032      -4.640122e-02
## 5944      3   -4.6    47  -2.320899e-01   1.0779876177      -4.557083e-02
## 5945      0   -0.4    16   1.898148e+00  -0.5780423280       9.956415e-02
## 5946    -15    5.2   -34  -5.617690e-01  -0.9641081871      -2.267748e-02
## 5947    -22   -3.2    41  -4.644855e+00   0.4525474525      -1.520859e-03
## 5948      0   -5.3    -5  -3.419940e+00   0.4122023810      -1.958291e-02
## 5949    -13    5.5    33  -6.586667e+00  -0.8666666667      -6.067750e-02
## 5950     -2   -1.6    72   1.885714e+00   1.2177419355      -2.083961e-02
## 5951    -10    4.0     6  -3.844997e+00   0.9300173511      -8.471956e-02
## 5952    -20    7.0    38  -1.502356e+00  -0.5840280295      -4.233993e-02
## 5953     -5    9.0    32   3.016893e+00  -2.0018769552       1.529298e-02
## 5954      5    5.5   -72   1.803226e+00  -0.9290322581       1.713300e-01
## 5955     10   -3.2   -10   7.575758e-01  -1.4553513862       9.331258e-02
## 5956      1    7.2   -15  -9.286558e-01   0.7857311599      -5.802775e-02
## 5957     -2   -2.9     3   5.026316e+00  -0.0596491228       7.553490e-03
## 5958    -10    1.8    34   3.032877e-01   2.0019178082       1.537567e-02
## 5959     -5    1.3   -55  -1.154729e+00  -1.4083818915       7.907927e-02
## 5960     23    7.1   -55   1.010841e+01  -0.9371505687       8.643481e-02
## 5961      3   -0.1   -16   6.553841e-02   0.3024722084       2.387463e-02
## 5962      2   -9.4    49   1.842433e+00  -1.6115900383      -8.656155e-03
## 5963      0    2.8   -22  -1.482759e+00   2.4617640160       5.412062e-02
## 5964    -15    4.6     6   2.059707e-01   0.7879382889       5.235300e-02
## 5965     15    2.4   -45  -3.598015e-02   0.0248138958      -1.037162e-01
## 5966    -12   -1.1    14  -8.629194e-01   1.8282523552      -4.015574e-03
## 5967    -30    6.7    67  -9.576912e+00  -1.0231454859      -6.791449e-02
## 5968      3   -7.3     1  -3.073935e+00  -0.6122915986       2.580386e-02
## 5969     -3    9.0   -36  -1.417582e+00  -0.2619047619      -2.280829e-03
## 5970      7   -0.1    34  -3.595833e+00   0.2159722222      -9.411293e-02
## 5971     10   -5.6    43   3.111876e+00   0.3081938142      -9.988104e-02
## 5972     -2  -10.4    33  -4.386762e-01  -0.3455548345       3.238255e-02
## 5973      5   -8.4    78   1.527397e+00   0.0684931507      -5.316431e-02
## 5974    -15   -0.3    10  -4.160083e+00  -0.9433471933      -3.110965e-02
## 5975     23    0.0   -82   6.656879e+00   0.3873741611       4.158755e-02
## 5976      0   -2.1    10  -8.639227e-01   0.1450441781      -2.302196e-02
## 5977     -7   -3.2   -43  -1.793791e-01   0.3830040940       6.618470e-02
## 5978     -8   11.2   -20  -2.072178e+00   0.2209856916      -5.108663e-02
## 5979     18   -4.4    94   5.123681e+00   1.6523281726      -7.302189e-02
## 5980    -18    4.4    -1  -4.131446e+00   0.9777305968      -3.342810e-02
## 5981    -20    4.0    -3  -4.596703e+00  -1.2299633700       8.315699e-03
## 5982     -3    8.6   -41  -9.487511e-01   0.2110249785      -4.931579e-02
## 5983      3   -1.5    14   3.442342e+00   0.1725650226      -1.627659e-02
## 5984    -10   -6.4    28  -5.325040e+00  -0.7869925797       7.370766e-03
## 5985     -3    5.4    59   7.612434e-01   1.5787037037      -2.876433e-02
## 5986     -5   -4.5    -2   2.392634e+00   2.0133204943      -7.069345e-04
## 5987     -8    7.2    -3  -3.975087e+00   0.4862762238       5.060577e-03
## 5988    -12    2.0    76  -2.316731e+00  -0.3039591315       1.100025e-01
```

```
## 5989     7  -2.6    -5  1.045568e+00   0.4946457052         1.893042e-03
## 5990     0  -5.6   147 -3.530625e+00   0.6416904859        -8.172838e-02
## 5991     0  -6.9    67  2.900433e+00   1.2849927850        -6.459984e-03
## 5992   -20   4.4    28 -7.858742e+00   0.1007547170        -7.611502e-02
## 5993    -5  -5.5   -10 -5.317918e+00   1.5941888620        -5.261564e-02
## 5994    -8  -7.0    25 -6.060504e-01   0.3228571429        -1.595875e-02
## 5995     0   6.6   -76  1.896762e+00   0.8238676575        -1.870469e-03
## 5996    -5   0.9    -9  5.277778e-01   1.5537037037        -1.513774e-02
## 5997     0   4.1   204 -5.002070e+00  -3.1159420290        -7.309369e-03
## 5998    23  -7.4   -88  4.915322e+00  -1.5583064426         1.398106e-01
## 5999    -7   1.2   121 -1.601799e+00   0.3878992353        -8.561682e-02
## 6000   -33  -8.8    22 -1.482274e+01  -0.1261347348        -9.463085e-02
## 6001     5  -2.6    16 -3.855556e+00   0.1500000000         2.694096e-02
## 6002     5  -5.4    83  1.346446e+00   1.0027605245        -7.291785e-02
## 6003     7  -5.3   -17  2.168421e+00  -2.0052631579        -9.628504e-02
## 6004   -20  -8.4   -45 -2.279974e+00   1.3134435658         9.822916e-03
## 6005     5  -4.4   164  1.801932e+00   2.6490996926         1.404079e-01
## 6006     5   3.2     5 -5.783282e-01   2.0403361345         3.673889e-03
## 6007    -5   5.3  -473  1.671335e-01   2.5182072829        -8.136946e-03
## 6008    20  -5.1   -54  8.037234e+00   3.0545212766         8.380562e-02
## 6009     3  -9.4     3 -4.156010e-02  -0.4661125320         3.779469e-02
## 6010     5   4.1   -13 -1.389474e+00  -0.3692982456        -7.596373e-02
## 6011    -8  -4.5   -25 -8.086957e+00  -0.6702898551        -7.780556e-02
## 6012     0   3.3    72 -8.817257e-01   1.2337946618        -2.929738e-02
## 6013   -15   0.2   163 -4.391885e+00   0.4422657952        -1.231030e-01
## 6014     3  -8.1    11 -1.136905e+00   0.7291666667        -1.528221e-03
## 6015     7   0.5   -26 -4.370629e+00  -0.1718926235        -1.808020e-02
## 6016    -2  -1.1    44  1.199665e+00   0.1741959472         6.557907e-02
## 6017     2  -0.9    15  1.976063e+00   0.3152125280         6.546077e-02
## 6018    -5   0.8   -45 -3.553623e+00   1.2205797101         6.564133e-02
## 6019    -4   3.2    34 -2.425467e+00   0.1793785311        -5.707767e-02
## 6020     0   3.3    71 -4.358099e+00   0.1552878179        -2.359703e-02
## 6021     5   5.5    19 -4.090909e-01  -1.0040404040        -3.231788e-02
## 6022     3   5.6    30 -1.749627e+00   1.0059731210        -6.654302e-02
## 6023   -13  -2.2   -66 -1.604337e-01  -1.0909805154        -1.185332e-04
## 6024   -18  -4.5     8 -1.194932e-01   1.8343079922        -2.553726e-02
## 6025     0  -0.1   -50  1.065476e+00  -0.3065668759         9.727543e-02
## 6026    -2  -4.9   -44  1.718168e+00  -0.6863354037         3.069391e-02
## 6027     0  -0.8   -60  2.621007e+00  -1.7772727273         1.024622e-01
## 6028    -3  -3.3    49 -3.428079e+00  -1.4943769273        -8.462344e-02
## 6029    10  -5.6   -86  2.173765e+00  -0.8882937026         5.090674e-02
## 6030    16  -7.4   -89  1.262140e+01   1.0531772575         1.472496e-01
## 6031     0   0.4   -79  2.530138e+00   0.2408102767         8.990059e-02
## 6032     6   1.9    90  5.297893e+00  -0.8132183908         3.504909e-03
## 6033     5  -5.4   -29 -5.655844e-01  -1.5535714286         1.771689e-02
## 6034    -3  -3.9    73 -1.281076e-01  -0.2261965162        -5.933648e-02
## 6035    11  -7.8    44 -2.130326e-01   3.0428571429        -1.472749e-01
## 6036     5   5.0   -61 -1.372635e+00  -0.7540935386         5.481005e-02
## 6037    -3   2.8    -8 -6.783403e+00  -0.4509904931        -5.513920e-02
## 6038    -8   2.5    35 -6.501880e+00  -0.4125939850        -1.283482e-01
## 6039     3   1.2   -73  5.021287e+00  -1.2143202709         1.236516e-01
## 6040   -18  -4.8    48 -5.629605e+00   0.9039473684        -3.191556e-02
## 6041     3  -3.3   -31 -1.686251e+00   2.3038362347         4.518873e-02
## 6042     0   6.9   -27  3.442435e+00  -0.1226642556         2.543515e-02
## 6043    -8  -4.7    86  5.779221e-01   3.0298701299        -3.674865e-02
## 6044     0   5.7  -120  3.429078e-01  -0.3604609929         8.240560e-02
## 6045    -3  -2.9    49 -3.427423e+00   0.6696802277        -4.324802e-02
## 6046    -2   7.9   -57 -1.287879e+00   0.3799102132         6.360253e-02
```

```
## 6047     -5   -6.9    -50  -7.219990e-01   0.1839944085        4.023513e-02
## 6048     -2    0.0    -60   2.941506e+00  -0.6458333333        2.267760e-02
## 6049     23   -5.8   -525   7.825368e+00   2.8023897059        1.879942e-02
## 6050      3   -1.9     63  -2.039368e+00  -0.8463563480       -1.926040e-02
## 6051      5   -3.4     35  -6.000000e-01   0.2096530920       -4.266034e-02
## 6052     20   -7.2    -59   2.937768e-01  -0.6246519678        9.355847e-02
## 6053      2    0.8     -4  -3.986111e+00  -1.6527777778       -9.371552e-02
## 6054      2    2.5    -27  -1.993496e+00   0.4086178862       -1.202581e-02
## 6055     -5    4.6    116   7.606981e-01   0.2142003347       -1.128012e-01
## 6056      8    2.8    -72   1.782318e-01  -0.9887284255       -4.219064e-02
## 6057     13   -3.1     25   4.011864e+00   0.3472984882        3.385973e-03
## 6058     15    6.7    -82  -2.242778e+00  -2.6238234340        3.016859e-02
## 6059     -5   -1.9     97  -5.466841e+00   0.2273123909       -1.853386e-01
## 6060    -10    0.6     65  -7.032432e+00   0.3941533370       -1.654929e-01
## 6061     -2   -3.4      4   4.453462e+00   1.0123076923        3.974026e-02
## 6062      0   -2.6    -44   2.609395e+00  -0.2150837989        6.657727e-02
## 6063      0   -5.4    -60   7.931034e+00  -0.5172413793        4.883488e-02
## 6064     -3   -5.2    -77  -3.692059e+00  -1.2308131784        4.855651e-02
## 6065      7   -0.2    -38   5.333559e+00  -1.6518038495        7.628732e-02
## 6066      3   -8.5    -33   5.136920e-01  -0.4754656658        5.522946e-02
## 6067    -15    2.6     -5  -4.434191e+00  -1.0095179739        2.786070e-02
## 6068    -15    2.5     -7  -5.663368e+00   1.5269326596        1.578399e-02
## 6069    -13    4.3     23  -2.088617e+00   0.4123818892       -5.806367e-02
## 6070      8   -3.2     30   3.889877e+00   0.7994039858       -7.390676e-02
## 6071     -7    0.4    -64  -4.112045e+00   0.7822128852        3.082050e-02
## 6072     20   -5.3     15   3.109516e+00   2.6467304625        2.265623e-02
## 6073      5    2.5     29  -4.103815e-01   1.4349304939       -3.245387e-02
## 6074    -10    1.6     29  -5.532524e-01   1.7650825750       -1.924428e-02
## 6075     -8    4.6      9  -2.286372e+00  -0.4243778568       -4.709715e-02
## 6076     10   -1.7     70   3.810476e+00   1.6407142857        1.449716e-02
## 6077     15    3.1   -107   1.521875e+00  -1.8312500000        5.528568e-02
## 6078      0   -1.9     85  -5.947085e+00   2.1876061121       -1.852221e-01
## 6079     -2    1.5     64   2.385714e+00   0.9222222222       -2.031986e-02
## 6080    -18    7.2      4  -8.250482e+00  -0.6425420458       -3.949569e-02
## 6081     -8   11.2    -41   2.235325e+00  -0.4138364780        7.501144e-02
## 6082      5   -2.2    -16  -2.107207e+00   0.0157973851       -4.391492e-03
## 6083     -7    0.7    -25  -3.015840e+00  -0.4431632891        2.121189e-02
## 6084      3   -7.7     13  -6.741561e-01   0.7529535865       -9.069361e-02
## 6085      3   -1.1      2   1.309886e+00  -0.0420836355       -1.438631e-02
## 6086      2    2.9    -13  -3.088879e+00  -1.8142724745       -7.641863e-02
## 6087      7   -2.4    -13   2.928779e+00  -0.0175062084        7.375039e-02
## 6088     -3   -1.2      2  -4.257896e+00  -0.0554849765       -5.217781e-02
## 6089    -11    9.4    -13  -7.104440e+00  -1.4250417761        1.104043e-02
## 6090      8    1.7      5   2.948421e+00  -0.3016218523       -3.001691e-02
## 6091      8   -3.3      6   5.087618e+00   0.0697757776       -6.993583e-02
## 6092      2   -0.3    -33  -8.656646e-04  -1.7033131345        3.226486e-03
## 6093     -3    3.7     -6  -2.058511e+00  -0.8565321137        2.600712e-02
## 6094     13   -5.1     -4   1.551809e+00   0.4418864424        7.265521e-04
## 6095     -5    5.8     -1   2.624925e-01  -0.8430530710        5.593959e-02
## 6096      2    0.0      2   2.908531e+00  -0.2215021144       -1.973461e-02
## 6097      5   -0.4    -77  -8.633113e-01   0.1320971302       -3.062836e-02
## 6098      8    4.4     14   1.033207e+00  -0.6290322581        7.409857e-03
## 6099     -8   -1.2   -477   2.807692e-01  -0.5500000000       -8.784648e-02
## 6100     -7   -2.4     -5   2.797701e+00  -0.8505747126        7.507982e-02
## 6101     -8    4.0    -51  -7.400671e-01   1.6448658411        3.372378e-02
## 6102      0    3.6    -24   3.140365e+00   0.4250594766        1.106030e-01
## 6103      3    0.9    -53   5.283046e+00  -0.8054921491        4.242462e-02
## 6104    -10   -1.4     10  -2.422517e+00  -0.8764900662        4.035157e-02
```

```
## 6105    -3    5.9  -534 -3.974059e-01 -1.1082687804      3.489912e-02
## 6106    -5    3.6    -7 -3.440508e-01 -0.3817866769     -4.117238e-02
## 6107     7    3.1   -62  4.019065e+00 -0.4953237410      1.846451e-03
## 6108    20   12.2    90  1.111477e+01 -0.5524777934      4.806250e-02
## 6109   -10    4.0    64  2.967033e-01 -1.4285714286     -2.067585e-02
## 6110    12   -4.0   -25  5.660786e+00 -0.8744987971      2.784060e-02
## 6111     5   -4.2    67 -3.798701e-01  0.6194805195     -2.722786e-02
## 6112    -5    5.7    12 -5.616824e+00 -0.9837931700     -4.822392e-02
## 6113    13    4.6  -270  1.681448e+00  1.1633484163      1.964453e-02
## 6114    -2    8.1     5 -1.955102e+00 -0.9357142857     -4.485000e-02
## 6115     5    1.6   -10 -2.181316e-01 -1.0734008283     -1.638211e-02
## 6116    10    0.9   -68  3.497835e+00  0.0354978355      3.640463e-02
## 6117    -5   12.4    -2 -5.451346e+00 -0.8478260870     -8.104741e-02
## 6118     7   -0.1    30  8.312589e-01 -0.9237197724     -6.538936e-02
## 6119    -5    4.3  -123  7.032991e-01 -1.3454227660      5.062800e-02
## 6120   -15    2.0    48  1.055556e+00 -0.0075757576     -3.993452e-02
## 6121    13    2.3    21  2.585610e+00 -1.0471324296      4.513075e-02
## 6122   -10    4.7    37 -1.802461e+00  0.2367191151      6.699109e-03
## 6123     5   -1.7    47 -3.084377e+00  1.6002210759     -1.013405e-01
## 6124    -8    0.2   -98 -2.829381e+00 -1.7395170619      3.008569e-02
## 6125     7   -5.2    34  4.396856e+00 -0.6643021472      4.404377e-02
## 6126    13    0.4    21 -1.829423e+00 -2.0964613368     -1.566688e-02
## 6127    -3   -0.4    45  1.274247e+00 -0.5677257525      2.670939e-02
## 6128   -25   -5.9   -67 -9.518541e+00  0.5833584564     -5.571577e-02
## 6129    18   -5.1   -51  3.659244e+00  2.4473684211      3.014455e-03
## 6130    -5    6.4    37 -2.847239e+00 -0.6680376028     -6.622092e-02
## 6131    23   -1.7   -29  6.322034e+00  0.1694915254      9.991466e-02
## 6132    -8   -0.7   -28 -4.201681e+00  1.2415966387     -9.499003e-02
## 6133    -3   -3.8   366 -2.105492e+00 -1.0376893939      1.021081e-02
## 6134   -13    2.5    58 -5.936330e+00 -0.7109862672     -5.744257e-02
## 6135     5   -4.9    -9  4.625668e-01 -1.3807932264      6.999949e-02
## 6136     0   -2.3   -25 -2.463727e+00  1.1055002371      2.397751e-02
## 6137    10    4.1    53  1.235247e+00  0.8192450824      3.613434e-02
## 6138    -3    6.2   -78 -5.908602e+00 -3.0569892473     -3.546124e-02
## 6139     8   -4.5    38  2.869991e+00  0.2814720091      3.591517e-02
## 6140     0   -0.8   -59 -1.778535e+00 -1.5295959596      7.708155e-02
## 6141   -10    1.6    71 -2.850184e+00  1.8754143646     -1.215116e-01
## 6142     0   -4.5   -28 -8.546681e-01 -1.3257760725      4.493059e-02
## 6143     5   -5.2   -31  4.646475e+00  1.3508299050      8.693500e-02
## 6144     0    2.6   -31 -3.949639e+00 -0.6056910569     -8.522562e-03
## 6145    13   -4.4    29  3.097565e+00  2.1729957806     -2.232300e-02
## 6146     0    2.7    23  2.474053e+00 -0.8503973820      3.097491e-03
## 6147    13   -4.2    41  1.458282e+00  0.7291925466      6.279269e-02
## 6148    10    3.3   -35  5.994466e+00  1.2363636364      9.301954e-02
## 6149     5   -3.0   -64 -5.969037e-01  0.0095838794     -3.822663e-02
## 6150     0   -4.9   -57  2.370483e+00  0.1181535855      6.420413e-02
## 6151     3   -0.7    21  4.116915e+00  2.5945273632     -6.261403e-03
## 6152   -15    6.3    20 -2.791275e+00 -0.0259740260     -1.571393e-02
## 6153     6   -9.0   -19 -4.573276e-01  1.4538793103     -9.033715e-02
## 6154    -5    2.3     8 -2.462857e+00  0.4814285714     -7.994539e-02
## 6155    -7    5.9   -29 -1.083688e+00 -0.0085764230      2.527659e-02
## 6156   -11    2.9   -33 -2.156757e+00 -2.1402068735      6.465882e-02
## 6157    -3   -1.1   -68 -2.149770e+00 -0.7756240413      3.345977e-02
## 6158   -15    7.4    17 -1.341446e+00  0.1010761340     -3.829656e-02
## 6159     2    5.2   -62  9.449891e-02 -1.1160130719      1.399902e-01
## 6160    10  -11.2   116 -2.456306e-01 -0.0281845379      5.379398e-02
## 6161    10  -10.3    49  2.303694e+00 -2.1354309166     -4.136255e-02
## 6162    10   -6.3    93  4.843373e+00 -0.7296686747      4.754654e-03
```

```
## 6163     -5  10.9     4  1.618182e+00  -0.4967570441        -4.319347e-02
## 6164     -2   8.1    -3 -1.750589e+00  -0.8307402169        -3.779193e-02
## 6165     -5  -4.4    51 -4.783803e+00   0.0818661972        -2.776619e-02
## 6166     -8   0.9  -109  2.780654e+00  -2.9883604254        -3.153767e-02
## 6167      0  -4.6   -31 -7.988587e-01  -0.9612512329         5.877577e-02
## 6168     -5   9.3    39 -6.593780e+00  -3.1660287081        -6.962861e-02
## 6169      8  -6.0   -33 -1.920027e+00   0.9339831635        -9.175931e-02
## 6170      2  -2.4    69 -1.717172e+00  -0.3424723425        -3.580403e-02
## 6171     12  -0.1   -33  2.311616e+00  -0.7984848485         1.945478e-02
## 6172     -2   3.9    28 -4.906667e+00  -0.5033333333        -1.894734e-02
## 6173     -5   7.5    24  1.406278e+00   0.3426171530         5.423765e-02
## 6174      9   7.2  -109 -4.584906e+00  -2.7759433962        -7.238401e-02
## 6175    -13  -4.1    81 -2.174157e+00  -1.7166292135        -4.307871e-02
## 6176      8  -1.8    22  2.148662e+00  -2.2121654501         7.908846e-02
## 6177    -13   2.6   -88 -4.625969e+00  -0.7627906977        -1.856135e-03
## 6178     20  10.8     1  6.806738e+00  -2.4663120567        -6.547782e-02
## 6179     -8   1.1    38  5.420875e-01   0.5454545455         2.373858e-02
## 6180    -12   2.3     9 -1.279389e+00   1.4205816555         1.424157e-02
## 6181     -3   3.4    14  1.060484e+00   0.7231182796         5.444478e-02
## 6182      5  -1.4     4 -8.484919e-01  -1.3020808978         1.714215e-02
## 6183      7   4.1   -17  3.812113e+00  -0.8174647887         7.902878e-02
## 6184     13  -3.9     2  7.728411e-01   1.4645352670        -3.263052e-02
## 6185      8  -7.4  -225  6.916667e-01   2.4093750000        -8.585666e-02
## 6186     -8  -0.4   -30 -2.406680e+00  -0.2066738752         2.564591e-02
## 6187      8  -0.1    57  1.852843e+00   2.0000000000         2.969877e-02
## 6188     -2  -2.1  -108  2.077381e+00  -1.8194444444         7.026707e-02
## 6189     -2  -3.1   107  2.006396e+00   0.6959716930         2.697332e-02
## 6190     23 -12.6   -73  1.223424e+01  -0.8310733384         1.964055e-01
## 6191      8  -1.9   135  1.614778e+00   0.8807881773        -1.565234e-01
## 6192     -5  -9.4    -7  1.183410e+00   2.5336405530         4.622681e-02
## 6193    -10   5.2    14  1.185000e+00   1.1126315789        -1.403650e-02
## 6194      5  -5.0   -26 -4.912281e-02   0.3972136223         6.769706e-02
## 6195      0  -1.4    82  2.924770e+00   1.3157894737         4.649769e-02
## 6196     18  -6.6   -92  5.317143e+00   0.0333333333         5.762816e-02
## 6197      5  -2.1  -100 -3.985517e-01  -1.8318991865         6.644638e-02
## 6198     -9   1.7     7 -1.171852e+00  -0.3633333333         1.369720e-02
## 6199     -5   6.3    53 -6.098772e+00  -0.4322807018        -2.689901e-02
## 6200     -8   7.2  -121 -1.138391e+00  -0.3299539171         1.017408e-01
## 6201     13  -2.0    49  7.653846e+00   2.3461538462         1.370809e-01
## 6202     -5   5.2    50  1.985397e+00  -0.3259181010         5.209061e-02
## 6203    -13  -0.4   -26  1.808480e+00   2.0808920809         1.854344e-02
## 6204    -13  -9.5    73 -2.294444e+00  -0.3588888889        -2.441267e-02
## 6205     -2  -1.5    65  9.540816e-01  -0.6868131868        -5.409743e-02
## 6206      0   1.9    46  4.082353e+00  -1.8294117647         7.315792e-02
## 6207     -3   7.3   -60  1.314685e+00  -1.6629370629         6.266462e-02
## 6208     13   5.1  -114  7.885659e+00  -1.5629844961         1.253865e-01
## 6209      7   2.4   140 -4.396226e+00   1.6874213836        -1.286510e-02
## 6210    -10   9.9    -4 -3.957193e+00  -0.1056140351         1.046354e-02
## 6211     -8   4.3    34 -8.438072e+00  -1.2173202614        -1.114913e-01
## 6212      2  -3.4   -73  1.947935e-01  -1.2870740529         1.070907e-01
## 6213      2  -1.0   -26 -1.375309e+00  -0.6305560347         2.511924e-02
## 6214    -13   3.9    46 -8.254487e+00  -1.0150750559        -8.429367e-02
## 6215     -3   5.7   -69 -3.326068e+00  -0.7000000000        -3.935641e-02
## 6216      0  11.7  -132 -3.351504e+00  -0.8289473684        -1.115727e-01
## 6217     -8   4.9    16  3.671642e-01   1.8014925373         6.425618e-02
## 6218     -8   0.1   125  1.449160e+00   1.7878151261        -6.315840e-02
## 6219    -21   4.8    37 -9.400128e+00  -0.4405105973        -1.038422e-01
## 6220      3  -3.7   -82  4.897625e+00  -1.2584894480         2.687124e-03
```

```
## 6221     0    0.4   -37  1.283002e+00 -2.0993246687     1.272959e-01
## 6222     2    3.2     7 -3.614696e+00  0.5844988345    -5.327688e-02
## 6223    -7    4.6   -17  4.702832e-01 -1.3797308663    -1.602531e-02
## 6224   -18    7.1     6 -9.343783e+00  1.2642931781    -3.500407e-02
## 6225     3   -3.8   -13 -2.439668e-01 -2.0497737557    -8.889871e-02
## 6226    -5    5.9    -5  5.466800e-01 -0.2313948307    -1.740306e-02
## 6227    -8   12.7     9 -8.134300e+00  0.7429592266    -3.600269e-02
## 6228     5   -4.5   -88 -5.090153e-02 -2.0153952843     6.542757e-02
## 6229   -13    7.2    49 -4.721462e+00 -0.0251614943    -1.050195e-01
## 6230     2    3.0    25  1.831133e+00  1.2340886700     4.550412e-03
## 6231   -10   -2.6    34 -1.484826e+00  0.9856250908    -5.260182e-02
## 6232    13   -6.8   -32  1.502874e+00 -1.3661270237     9.312212e-02
## 6233    -5    7.1   -64 -6.228270e+00 -1.8210970464    -4.025909e-02
## 6234    15   -3.8   -49 -1.082220e+00 -0.6145293179     7.862312e-03
## 6235    -3    1.1     1  2.187954e-01  0.7124455733     3.928626e-02
## 6236    -7    6.2   -44 -2.716725e+00  0.7442508711    -7.130758e-02
## 6237    -7    5.3    39 -4.169672e+00 -1.3557377049     1.888710e-02
## 6238    -2   -9.0   152 -4.281547e+00  1.7846225536    -4.414573e-02
## 6239    10    4.0    40  1.262149e+00 -0.0378409527     2.183567e-02
## 6240    -3    0.9    21  1.492063e+00  0.5396825397     4.078634e-02
## 6241    -7   -2.3  -124 -1.267641e+00 -1.1487603306     4.578650e-04
## 6242    -3    0.4   -71 -4.933375e+00 -1.7379469845    -4.903984e-02
## 6243   -13    3.9    39 -8.272824e+00 -0.9968152866    -8.408871e-02
## 6244     8    3.1    60  8.548632e+00  0.8609422492     1.570701e-02
## 6245    16   -0.9   -20  1.286631e+00  0.0884135472     3.943565e-02
## 6246    -3    3.3   -18 -1.371118e+00  1.8902691511    -3.511015e-02
## 6247     7    4.3   -35 -1.199486e+00 -1.3844178082     4.787642e-02
## 6248   -16    4.3   315 -4.336450e+00 -2.7523826650     2.353853e-02
## 6249     5   -9.1   -99  4.594598e+00 -1.3967318808     2.400063e-02
## 6250   -15    4.3    44 -2.428791e+00  0.1938183060    -6.685568e-02
## 6251    15   -4.6    57  3.696317e+00 -0.6124160274    -2.326028e-02
## 6252    -5    5.0   -56  5.586057e-01  0.9239019408    -1.213209e-01
## 6253     5   -1.6    15  2.584402e+00  1.9081196581     9.902749e-02
## 6254     7   -2.3    37  1.874802e+00  0.3543972332    -2.207226e-02
## 6255     7   10.0    12 -1.622917e+00  1.5000000000    -3.759542e-02
## 6256    -5   -4.9   104 -3.013201e+00 -0.8770627063    -2.874218e-02
## 6257    -2    3.9  -344 -4.545455e-01  0.5909090909     2.113072e-01
## 6258     0   -2.4   -35 -1.572105e+00  0.0463157895     1.186391e-03
## 6259     0    3.3    39 -3.957800e+00  0.1120089787    -1.167281e-01
## 6260   -10  -10.5    -2 -3.841880e+00  1.7799145299    -4.181589e-02
## 6261    18    1.4   -47  9.594545e+00  0.6766233766     1.045882e-01
## 6262    -5    5.2    45  1.973588e+00 -0.3113539769     5.683657e-02
## 6263    -6   -3.0   112  1.803159e+00  1.6862207461    -2.984930e-02
## 6264    -3  -12.1    57 -5.623870e-01 -1.5822784810    -1.154944e-01
## 6265     5   -1.5    34  5.892857e-01  0.2619047619     1.425583e-01
## 6266    18   -8.9    -5  4.555663e+00  0.9697554698     3.890034e-02
## 6267    10   -0.2   -17  3.284895e+00  0.6835305482     1.001071e-01
## 6268     2   -9.5   -33  4.635198e+00  0.9918414918     2.016414e-02
## 6269    -5   -1.5  -110  8.008009e-01 -1.2052449749     8.911738e-03
## 6270     5   -3.8   -80 -1.334124e+00 -1.5151580460     3.816713e-02
## 6271     3    2.9    35  1.077628e+01  0.8410462777     9.007389e-02
## 6272    11    1.7  -154  6.442372e+00 -2.6513629842     7.539164e-02
## 6273     5    0.3    74  2.734323e-01  1.3666576182    -7.702472e-02
## 6274    13   -7.7  -308  2.240829e+00  0.2640733713     3.824777e-02
## 6275     8   -1.2   -59 -1.310210e+00  0.6678678679    -4.505331e-02
## 6276   -10    3.9    35 -7.473684e+00  0.7657894737    -5.904055e-02
## 6277     5    0.4   178  2.109290e-02  0.8326775956    -2.623071e-02
## 6278     0   -3.3    44 -2.482682e+00  0.3736182756    -2.506826e-02
```

```
## 6279     4  -2.2   -32  7.047920e+00   0.6785714286         1.072540e-01
## 6280    -7  -3.3  -170  3.795294e+00   1.0729411765        -2.093774e-02
## 6281    -8   8.3    44  1.568974e-01   0.8602871940        -2.415989e-02
## 6282     0  -0.7   -27 -2.766276e+00  -0.3492444570         1.096302e-02
## 6283    -7   5.2   -20 -3.554334e+00  -2.1171247357        -6.691150e-03
## 6284   -17   4.1     5 -1.885399e+00  -1.1845730028        -8.055372e-02
## 6285    -2   0.3   -41  1.628654e+00  -0.4442439553         1.009028e-01
## 6286    -8   0.4    49 -8.182906e+00   0.2873931624        -3.653663e-02
## 6287    -8   5.5    44 -4.701299e-01   1.7447004608         2.675841e-03
## 6288   -15   9.9   -33  7.188235e-01   0.4932352941        -4.168014e-02
## 6289     5  -7.5    38 -4.359697e+00  -0.4419627938        -5.586180e-02
## 6290    -2   5.5   -69  3.603236e+00  -1.0841253792         4.028114e-02
## 6291   -15   3.7     6 -3.387950e+00   0.1409143743        -9.739226e-02
## 6292     0 -12.7    59  3.470960e+00   2.4633838384         6.716840e-02
## 6293    -3   5.1   -40  5.216125e-01  -1.9851655865         1.257679e-01
## 6294   -11   2.7   113 -1.505892e+00   1.1380471380        -3.155152e-02
## 6295    20   1.2   -10  4.436271e+00  -0.2917650144         4.169713e-02
## 6296     8  -4.0   151 -8.237179e-01   0.1129807692         6.859986e-03
## 6297     5  -0.3    -5  5.328300e+00  -0.0163524209         9.858364e-02
## 6298   -14  -3.3   -30  3.838095e+00  -0.1678195489         5.483198e-02
## 6299    -5   2.8   -38  3.696117e+00  -0.5080886013         6.109521e-02
## 6300    -8   0.4     2  2.325947e+00   0.0597406939         3.884438e-02
## 6301   -15   8.4    23 -3.767399e+00   1.9404761905        -9.773297e-02
## 6302    -7   5.1  -112  5.610755e+00  -0.4440883191        -2.621113e-02
## 6303     3  11.0  -121  2.564593e+00  -2.2701754386         1.113739e-02
## 6304     5   0.0    91  9.449323e-01   0.0517160918        -8.982594e-02
## 6305   -16  -4.4   -31 -1.867631e+00   0.0375417130         3.104820e-02
## 6306     0   0.4     6 -1.565815e+00   0.3235581623         7.521584e-02
## 6307     0  -5.0    16 -4.454800e+00  -1.7759573325        -7.949637e-02
## 6308    -8   3.0   -13 -3.626852e+00  -0.3879123050        -1.088938e-02
## 6309    10   8.3    25  8.463904e+00   0.6570538922         9.617097e-02
## 6310    -5   5.9  -125  2.734694e-01  -0.6456400742         1.518346e-01
## 6311    31   2.5   -80  1.162423e+01  -0.8782248157         6.985871e-02
## 6312    -5  -1.3   -43 -3.348655e+00   0.0302192327         7.029084e-02
## 6313   -10  -3.5    72 -1.209016e-01  -1.0614754098         8.345255e-02
## 6314   -16   0.9    30 -1.349087e+00   0.0257496741        -2.337506e-02
## 6315    -3  -2.6    -4  2.209459e+00   2.1047297297         6.060445e-02
## 6316     0   4.4  -113 -8.073796e-01   1.2976860538        -3.996585e-02
## 6317    -3  -1.1  -104 -6.429455e-01   1.0544554455        -2.391486e-02
## 6318    13  -7.3   -19  4.940476e+00   1.8095238095         8.237679e-03
## 6319    28   1.6   -72  7.605999e+00   0.2983412861         7.488786e-03
## 6320    -5   2.1    44  9.283697e-01   1.9409806295         6.408910e-02
## 6321     5   2.2   -26  4.127930e+00  -1.5912318221         1.372007e-01
## 6322    30  10.8   134  1.514954e+01  -0.1700083542         8.056097e-02
## 6323   -15   3.2    29 -1.007141e+00   0.7558292043        -7.163999e-02
## 6324     1  -7.5   -15  3.601852e+00  -0.0370370370        -3.100203e-03
## 6325    15  -0.1     5  3.895665e+00  -0.3664314516         2.667514e-02
## 6326     0   3.4  -148 -2.420827e-01   0.0042941492        -4.088873e-02
## 6327     5  -9.9   -30  8.692358e-01  -3.1811594203         7.379738e-02
## 6328    -3  -4.8    16  2.537879e+00   2.0136363636         1.261331e-01
## 6329   -16   6.3    48 -4.998921e+00  -1.0720448663         9.799985e-03
## 6330     2  -7.8    44 -3.436364e+00  -0.1151515152        -1.272428e-01
## 6331     0  10.7    34 -2.485964e+00  -0.0708697653        -2.226914e-02
## 6332    -5   4.7   -47 -3.785976e-02  -1.8541626425         1.049224e-01
## 6333    -5  -0.5    24 -2.522438e+00  -0.6851096379        -1.295897e-01
## 6334     0  -3.4     9 -3.706543e+00   0.5625083123        -2.828186e-02
## 6335    -2  -4.9   -59  1.854587e+00  -0.7986225418         3.099086e-02
## 6336    -2   2.5    21 -1.968377e+00  -0.2084142395        -2.093966e-02
```

127

```
## 6337     5 -10.2  -78  4.029897e+00  0.2711340206       3.551127e-02
## 6338    -5  -0.7    2 -3.810235e+00 -1.5932835821      -4.660134e-02
## 6339    -3  -0.6  -34  3.796564e+00 -0.2572978559       1.443060e-02
## 6340    -5   8.7  -10 -4.362682e+00 -0.7719653712      -3.444152e-02
## 6341     3  -1.6   68  1.849683e+00 -1.7747747748       1.744321e-02
## 6342    25  -9.5  -49  8.590716e+00 -0.1318703856       1.538745e-01
## 6343    -3   1.5   97 -3.232034e-01  0.5206422018      -1.339964e-01
## 6344     3   3.1  -36  1.605263e+00 -0.3245614035       1.721348e-02
## 6345     3   3.8   40 -7.045455e-02  0.4909090909       1.623459e-02
## 6346     2  -3.1  -37  4.379869e+00 -0.8718954248      -7.574548e-03
## 6347    -7   6.1   22 -2.195402e+00  0.1701149425       2.872177e-03
## 6348    -5 -11.3  -13  9.485902e-01  0.3736842105       6.621092e-02
## 6349    10  -5.2  -43 -1.238397e+00 -1.1757259866       2.059648e-02
## 6350    15  -5.4  -55  1.152594e-01 -0.9132965082      -2.573833e-02
## 6351     2  -9.3   55  1.540878e+00 -1.6831081081       9.343153e-03
## 6352     0   2.4 -126  2.931507e+00 -1.5702390545       1.172612e-01
## 6353     5  -3.7  151  1.219837e+00  1.5668292683      -4.779920e-03
## 6354    28  -0.6  -54  1.308070e+01 -0.4800127918       1.720880e-01
## 6355     5   0.9  -54  2.683929e+00 -0.0776785714       1.252372e-01
## 6356    -3  -4.1  -10 -1.392332e+00  1.0140067912      -3.234013e-02
## 6357    23  -2.8  -39  6.255858e+00 -0.9039933046       3.261630e-02
## 6358     6  -1.5   41  2.414483e+00  1.2747252747       7.631492e-02
## 6359     3  -2.1   28  4.353490e+00 -0.6883165360       5.274348e-02
## 6360   -20  -4.7  -45 -1.289103e+01  0.2211538462      -8.150694e-02
## 6361    18  -3.6 -308  4.570068e+00  0.5619047619       8.686090e-02
## 6362     3   1.3  -27  1.580036e+00 -1.2459532374       1.541806e-01
## 6363    10  -2.2   43  2.071429e+00  1.5000000000       6.122564e-02
## 6364    13  -5.0   66  5.234063e+00  0.6094470046      -9.080571e-03
## 6365    -3  -0.3   13 -4.938462e-01  0.7267948718      -4.694192e-02
## 6366    -7  -1.6  104 -4.661719e+00  1.2294372294       3.598284e-03
## 6367    -5  -2.5   25 -1.976471e+00  0.2632352941      -4.977173e-02
## 6368    -3   3.3   67 -4.277432e+00 -0.0441400304      -2.223521e-02
## 6369     8   0.9  -86  1.737703e+00 -0.4086890244       4.782086e-02
## 6370    16   0.7  -84  5.928611e+00 -1.4302260831       8.516745e-02
## 6371     3   3.7    4  1.173333e+00  0.2666666667       4.670526e-02
## 6372     2  -5.3   20 -1.750563e+00 -1.1621621622      -5.094512e-02
## 6373   -20   0.1  -12 -2.153603e+00  1.5911964142       5.926098e-02
## 6374     0   8.4  -23  1.360354e-01  1.9072909387       7.374601e-02
## 6375    -5   4.7  -32  4.269768e+00 -0.7998474680       1.497111e-01
## 6376    -8  -0.2  -53  3.361720e-01 -0.4524640514       1.105185e-01
## 6377    -3  -1.1   14 -5.418658e+00  0.2612870276      -7.494718e-02
## 6378     2   3.3   19 -2.594771e-01 -0.3494117647      -1.004005e-01
## 6379   -10   0.5  -23 -9.678068e-01  2.7349094567      -7.151585e-02
## 6380    13   6.6   18 -1.371741e+00 -1.2677942213      -2.691854e-02
## 6381     2  -1.2  -90 -1.300193e+00 -0.9513084513       9.693392e-02
## 6382    -5  -0.3  -29  2.656459e+00 -0.0210526316      -2.885869e-02
## 6383   -12   6.6   45 -7.293011e+00 -0.6774193548      -7.673540e-03
## 6384    11  -2.8  -86  1.533729e+00 -1.1594861660       4.725466e-02
## 6385     3  -1.0   72  2.379187e+00  1.8708133971      -4.943437e-02
## 6386     5   6.7  -43 -1.273084e+00  0.4457752613       5.287905e-02
## 6387    -7   0.2   44 -5.275317e+00  1.5906582981      -8.287738e-02
## 6388    -3   5.2  -39  5.168058e-01 -1.9924994360       1.243175e-01
## 6389    18  -1.4  -90  1.161711e+01 -0.4951221546       1.290169e-01
## 6390   -10   1.3   -6 -3.233711e+00  0.3654748471      -6.041599e-03
## 6391    -2   0.8    7  4.908920e+00  0.7021762551      -6.526590e-02
## 6392    -2  10.4  -90 -2.912964e+00 -0.3135421687       5.296707e-02
## 6393   -11   4.1   -4  8.642126e-02 -0.7397578574       6.536955e-02
## 6394    10  -4.2    1  2.967510e-01 -0.6147433335       7.050916e-05
```

```
## 6395      2  -4.8     4  5.047852e+00   1.0462184874        3.818379e-02
## 6396     -8  -1.7    -5 -2.912232e+00   0.2901932770        2.604828e-02
## 6397      3  -2.1    41  4.520833e+00  -0.4347222222        3.809228e-02
## 6398      3   3.2    45  1.009185e+00   0.6779563720       -2.524660e-02
## 6399    -23 -13.6   -18 -9.556701e+00   2.8959700094        7.834542e-03
## 6400     14  -3.3   -16  2.700000e-01   0.6833333333       -3.735130e-02
## 6401      0  -2.7    19 -2.559885e+00   0.8239538240       -1.442615e-02
## 6402     12   1.7   -72  5.904641e+00  -0.3102352193        4.611710e-02
## 6403      5  -1.1    75 -2.727013e+00  -0.3443746431        4.278488e-02
## 6404      5  -7.2   -52  1.378544e+00  -0.4942528736       -1.225486e-02
## 6405     -5   1.9     1 -2.277778e+00   1.6143790850        1.398381e-03
## 6406      5   4.4   -25  1.391123e+00   1.2968099861       -2.417832e-02
## 6407     -5   4.8     3 -3.365449e-01   1.3930817610       -5.784758e-02
## 6408      0  -1.3    43  1.054545e+00  -0.7116883117       -2.288262e-03
## 6409      0   2.2   -29 -1.051888e+00   0.5234811166        7.003321e-03
## 6410     -8   4.0   -88 -8.127500e+00  -0.7220000000       -2.304087e-01
## 6411     10  -4.1   -62 -5.039174e-01  -1.5178062678       -8.697545e-03
## 6412      7  -0.6    24  2.894872e+00   1.0628205128        9.515066e-03
## 6413     -7   6.2   -96  2.498661e+00   0.5029004909        4.576859e-02
## 6414     13   4.8   -10  3.842832e+00  -2.3296016284       -3.570109e-03
## 6415     10  -4.3   -60  1.345566e-01  -1.1678899083       -2.815302e-02
## 6416     -5   4.8    -7  7.244690e-01   0.9485294118       -4.867702e-02
## 6417     10  -1.4    16  1.173508e+01   0.5978639424        9.353453e-02
## 6418      6  -7.0   -54  3.169680e+00  -0.4799617408       -6.596517e-03
## 6419      5  -6.1    15  4.846905e+00  -0.2373386296        1.044268e-01
## 6420     -5   4.9    18 -5.996407e+00  -1.1801944621       -5.201256e-02
## 6421     -5   7.6    -2 -3.223734e+00  -0.4969765684       -9.768857e-02
## 6422      3  -6.8    14 -9.563005e-01   1.3776763777        2.040861e-02
## 6423     13  -2.1    39  2.178985e+00   0.1988260582       -3.206157e-02
## 6424      2  -6.9    33 -1.415589e+00   0.4510217473       -6.198446e-02
## 6425     16  -4.4   -36  9.387019e-01  -0.0240384615        5.810813e-02
## 6426     -3   2.4    80  2.153846e+00   0.9615384615        1.153999e-01
## 6427     -5   3.8   -85 -1.901250e+00  -2.2512500000        1.252577e-02
## 6428    -10   0.0    35 -2.178736e+00   1.5006352087       -1.293328e-01
## 6429      0   3.4    82 -1.007203e+00   0.6071428571       -8.826521e-02
## 6430    -10  -8.6  -120 -6.090062e+00   0.8380656610       -2.817037e-03
## 6431     -9   1.4   -39 -2.109533e+00  -0.6521875326        4.083006e-02
## 6432    -10   0.7    46 -3.792086e+00   0.3991978610        2.571505e-03
## 6433      5   0.6  -134  3.859209e+00  -0.6126331811        6.325455e-02
## 6434     -3   5.3    91 -4.873260e+00   0.8512820513       -1.160453e-01
## 6435      5   3.0   -80  1.791878e+00   0.4207557812        7.416998e-02
## 6436    -10   5.9    53  2.124329e-02  -0.1809033989       -1.363846e-02
## 6437      3   5.7    63 -4.806748e+00   0.0303606315       -3.526468e-02
## 6438      7   5.8   103  4.667305e+00  -0.1635099667        2.409285e-02
## 6439     -2   0.0   -41  3.100969e+00  -0.7655957845        2.020759e-02
## 6440     -8  -7.8    27 -5.126984e+00  -0.1071428571       -1.185264e-01
## 6441    -13   7.4    96 -4.069118e+00  -0.0627005348       -9.415995e-02
## 6442     20  -7.3   -35  5.483057e+00  -0.9106581741        5.015588e-02
## 6443     -6  -1.9   138 -4.748145e+00  -0.1377904607       -1.018337e-01
## 6444     10   7.2   -27 -3.822265e-01  -3.1629240325       -9.653252e-04
## 6445     23  -8.8   -69  8.028854e+00   0.7446640316        4.271206e-02
## 6446     -8   6.4   -35  1.198931e-01   0.4194621720       -1.420658e-02
## 6447      0   3.1    36 -1.983333e+00   0.2000000000       -2.193278e-02
## 6448     18  -5.5    19  1.158314e+00   2.0814575302       -9.003242e-02
## 6449     -3   2.3    28 -1.737675e+00  -2.0524441341       -6.893979e-02
## 6450    -28   4.2   -33 -7.510491e+00  -0.5926946108        5.024848e-02
## 6451     -2  -5.9    68  2.749809e+00   1.9101391271       -5.417024e-02
## 6452     -5   4.8   -34 -1.798817e+00  -0.8224852071       -1.265868e-02
```

```
## 6453    -6    3.4    -54  -4.745659e+00  -0.9842555106     -9.592751e-03
## 6454    10   -4.1     58   2.591612e+00   1.6951570274     -9.236147e-03
## 6455    26   -4.2    -83   1.021758e+01  -1.1158931083      1.091597e-01
## 6456     3    0.7   -113   2.492725e+00  -1.0542328042      3.829452e-02
## 6457    -2   -3.1     32   1.275698e+00  -0.3594136348      1.885371e-02
## 6458    -3    5.1    -41   1.327494e+00  -0.1623541208      1.205388e-01
## 6459     0    3.9    -30  -1.710599e+00  -0.6045608928      4.800022e-02
## 6460    -4    2.1     30  -7.027877e+00  -0.7381521306     -1.031971e-01
## 6461    -2   -2.3      5   8.048559e+00   0.3659917639      7.714581e-02
## 6462     0    3.4     24  -1.005102e+00  -0.1836734694     -1.572038e-02
## 6463    10   -3.7    -76   3.262915e+00  -1.2633477633      6.852706e-02
## 6464    -5   -6.9    -69  -8.049769e-01   0.1009837963      1.352563e-02
## 6465     5    7.4      8  -1.760485e+00   1.5287786864      5.015832e-02
## 6466   -23    9.0    114  -4.505440e+00   1.8496925260     -1.219906e-01
## 6467    -6    2.0     21  -3.867670e+00  -0.5452491182     -3.328168e-02
## 6468   -18    4.4    -14  -5.678509e+00  -2.1899122807      7.461023e-03
## 6469   -13    4.3    -27  -3.084842e+00  -1.9512288055      1.468925e-02
## 6470    18   -4.9    -20   7.328675e+00   0.5364906832      4.651314e-02
## 6471     0   -4.5     47   4.939922e+00   1.7054263566      3.993328e-02
## 6472    -3    4.1     80  -8.757396e-01   1.0443786982     -8.489261e-02
## 6473    -2   -3.4     58   8.082298e-02   1.6694487578     -9.794296e-02
## 6474    10   -0.3     22   6.496212e+00   1.0495865564     -2.784500e-02
## 6475    -8    5.7     -9  -4.950173e+00  -0.6154314721     -1.493889e-02
## 6476    -7    4.2     82  -4.386796e+00   0.3815407312     -9.626955e-02
## 6477   -10   10.5     12  -1.360618e+00   1.5281517748     -3.075788e-02
## 6478    11    0.7     -4   1.934846e+00  -0.0262245492      1.781901e-02
## 6479    20   -1.4     24   5.895604e+00   0.2785291631      3.525487e-02
## 6480     5   -2.2     62   6.017335e+00   2.4475984110     -6.086576e-02
## 6481     2    3.6    -16   1.024183e+00  -0.9535947712      3.382159e-02
## 6482     0    2.1      7   5.201299e+00  -0.1998556999      1.149189e-02
## 6483     8   -1.4      4   3.691830e-01  -0.1546732026      2.287048e-02
## 6484    -7    0.7    -31  -2.865331e+00  -0.4419573139      3.021495e-02
## 6485     0    4.8     -3   4.362088e+00   0.0459846167      4.253634e-02
## 6486   -10    1.3     -6  -3.172806e+00   0.3442118227     -8.538666e-03
## 6487   -11   -0.7     -1  -4.273005e+00  -0.7593074480      2.077114e-02
## 6488    13   -2.3      2   4.569146e+00   0.6807945042      1.068154e-02
## 6489    -3    2.2      3   7.596466e+00  -0.3515592516      3.963184e-03
## 6490    -5    5.2    176  -2.117124e+00  -0.5908080059      9.994956e-03
## 6491    -5    0.5    -18  -1.994190e-01   0.5323718614      7.052251e-02
## 6492     2   -0.3     11   2.267446e+00  -1.4057124310      5.217312e-02
## 6493    -5    8.1      5   3.702977e+00   0.8467683370      1.174635e-01
## 6494     0    1.5     10   5.492063e+00  -0.0211640212      1.705730e-02
## 6495     5   -3.4     63   3.269231e+00  -0.4324009324     -2.146867e-02
## 6496    19   -0.3    -76   1.867279e+00  -0.0820424555     -2.991906e-02
## 6497   -10   -5.0     39  -3.085964e+00  -1.1389023798     -4.275712e-04
## 6498    -6    9.0     27   3.973547e-01  -1.2835320417      7.644181e-02
## 6499    -8    3.7    -51  -5.627996e-01  -0.8023558417      9.267636e-02
## 6500   -13   -9.6     18  -7.020934e-02   1.7069243156     -8.664661e-03
## 6501    -8    4.5     37  -7.387528e-01  -1.1763071044     -6.057077e-02
## 6502     2   12.4      7  -1.041739e+00  -0.1895652174     -4.773733e-02
## 6503    -8   -9.1     37   4.216113e-01   1.5363364181      7.815128e-03
## 6504     8   -0.8     -7   2.218971e+00   0.7620960031     -6.316428e-02
## 6505    12   -7.3    -49   1.975788e+00   1.0884009009     -2.955655e-02
## 6506    -3   -0.9   -244  -8.129856e-01   1.4189789123     -7.432545e-03
## 6507   -10   -3.7     -3  -2.416026e+00   2.2247863248      5.073422e-02
## 6508     5   -0.4     52   1.020000e+00  -3.1800000000      3.824822e-02
## 6509    -5   -2.4     95   3.488351e+00  -2.0053763441     -1.334276e-02
## 6510     7    0.8    -23   5.974026e-02  -0.4129870130      4.019921e-02
```

```
## 6511       3   -1.1    -2  1.246971e+00 -1.2335294796           1.102546e-02
## 6512      13   -0.1   -14  6.664576e+00 -1.0802976551           7.001884e-02
## 6513       5    0.4   -75 -1.398065e-01 -1.4019019019          -2.255175e-02
## 6514       2   -2.9    27 -1.581505e+00 -0.8119122257          -3.506587e-02
## 6515       3   -8.1    -8 -6.460623e-01  0.5819597070           4.852265e-03
## 6516       8    0.4    28  2.785714e+00  0.3030303030          -7.147031e-03
## 6517       8    2.0   -21 -1.406433e+00 -1.8157894737          -1.320281e-01
## 6518      -5   15.5    72 -6.122449e-01  1.0374149660          -1.337387e-01
## 6519      -8   -1.8   -63 -2.172454e+00 -0.9695669138           1.914492e-02
## 6520       8    1.3  -174  9.124396e-01  1.2584541063          -2.779157e-02
## 6521       2   -7.4   -19  5.512861e+00 -0.3487386050          -3.577934e-02
## 6522       2   -9.4    56  1.250862e+00 -1.8126436782           2.456300e-02
## 6523      -3    3.8    78  1.224044e+00  1.1242169799           1.247459e-02
## 6524      -7   -3.0    36  3.567485e+00  0.9178595774          -6.046548e-02
## 6525     -15    1.0    10 -4.890591e+00 -0.4378562440           1.704712e-02
## 6526      -5   -0.8   118 -4.504008e+00  0.7157001414          -4.487703e-02
## 6527     -12   -7.0   -29 -5.591046e+00  0.9567880610          -1.038672e-01
## 6528      -3    6.6    28 -7.490024e-01 -2.1142579075          -5.732937e-02
## 6529     -20   -8.4   -42 -2.222868e+00  1.3320636194           3.025826e-03
## 6530      -3    3.8   -47 -9.758004e-01 -0.7978406552          -3.866619e-02
## 6531       0    2.0    68 -1.494624e+00 -0.4417204301          -1.862515e-02
## 6532       7   -4.9    -7 -1.885367e+00 -0.3196941028          -2.260383e-02
## 6533      18   -2.4   -82  6.116300e+00 -1.4587912088           1.197423e-01
## 6534      17   -5.4  -135  4.183849e+00 -0.2293277491           3.974802e-02
## 6535      -3   -1.2    42  3.614074e-01  0.9680043980          -1.313631e-02
## 6536      -2    7.2   -26  2.493254e+00 -2.6990140114           4.948426e-02
## 6537       8   -0.6   -76  7.009158e+00 -2.1562881563           6.800294e-02
## 6538       8   -5.4   -74  6.629854e+00 -1.3049268293           6.929803e-02
## 6539      -3    0.0    32 -2.053983e+00 -1.6716981132          -7.783524e-02
## 6540     -11    0.2    42 -2.453216e+00  0.6520467836          -6.501499e-02
## 6541       5   -0.9    36 -1.841283e+00  0.1852706154          -7.816898e-02
## 6542      -5    8.0    19 -1.148494e+00 -1.6954824317          -1.703219e-02
## 6543      23   -0.4   -31  8.333569e+00 -0.8349624593           9.132311e-02
## 6544     -10    0.9    79 -3.356828e+00 -1.1970251970          -4.251813e-03
## 6545      -9   -5.4    58  2.671571e+00  1.1671045717          -1.206264e-03
## 6546      15   -2.9   -16  4.801290e+00  1.4941935484           3.282454e-02
## 6547      -5    5.6    44 -3.347273e+00 -1.6309090909          -1.266127e-01
## 6548       3   -5.4    42 -1.958239e+00 -0.4848484848          -1.641534e-02
## 6549      -8    2.2   253 -1.215900e+00 -0.8305233579          -7.433383e-02
## 6550       8   10.6    -4 -1.401600e+00  1.0403123413           5.284073e-02
## 6551       0    1.8   -49 -2.698590e+00 -0.1492361927           3.356807e-02
## 6552      23   -1.9    20  3.662390e+00  0.4733360064          -3.279177e-04
## 6553       3   -5.1    31 -5.315608e-01  1.9362549801          -1.257486e-01
## 6554       7    9.4    38  4.353235e+00 -0.8198675497           2.358988e-02
## 6555       3   -8.1   -34 -1.947841e+00 -0.2025407974           4.768155e-02
## 6556       3    5.0   -47  3.591438e+00 -0.9550991994           1.879643e-02
## 6557      -2    4.0    21 -1.732782e+00  0.3212132230          -2.454009e-02
## 6558      -3   -5.3    35 -4.311746e+00  2.9336507937           1.757422e-03
## 6559      11   -1.9   -54  4.660776e+00 -0.2601314125           9.015317e-02
## 6560       3   -3.7   -41  6.673049e+00  0.2002439024           1.122552e-01
## 6561      -8   -3.4   -12 -9.265587e+00  0.1849624060          -7.770860e-02
## 6562       2    3.8   -21 -1.805703e+00 -0.6149425287          -1.223057e-02
## 6563       2    4.0   -29  1.113861e+00 -0.7970297030           3.036804e-02
## 6564       0    9.1    17  1.864643e+00  1.2467606981          -2.981392e-02
## 6565      -3    0.5    -4  2.215845e+00 -0.1833068362           3.463354e-02
## 6566       3   -7.7    10 -7.419120e-01  0.7420029080          -9.605153e-02
## 6567      -5    6.7   -19  2.263914e+00 -0.2626696833          -3.688680e-02
## 6568      -2    0.8     2  2.665678e+00 -0.1175987592          -2.347543e-02
```

131

```
## 6569     2  -2.0   14  3.578393e+00  1.3262187088   -2.903563e-03
## 6570    10  -3.5    3 -3.004194e+00  0.2305488265   -6.584149e-02
## 6571     0   3.2   16 -3.083547e+00 -0.1113300493   -8.528421e-02
## 6572    -5  -6.7   -5 -1.974194e+00 -1.2906810036   -5.371876e-02
## 6573     8   0.9   37  2.314611e+00  0.5800337471   -7.759797e-02
## 6574    11   0.7   -4  1.887712e+00 -0.0380286380    2.199846e-02
## 6575    -8   1.4   -8  7.506127e-01 -0.1878063725    3.914126e-02
## 6576   -13  -4.0  -13 -3.431816e+00 -1.5822445271    2.137301e-02
## 6577     5  -0.9   -7  1.864360e+00  0.0761572922    3.068031e-02
## 6578    15  -5.1   -2  4.491928e+00  0.2877022654   -2.849211e-03
## 6579     8  -6.6   12  3.342615e+00  0.9181663837    3.195433e-02
## 6580   -13   3.0    3 -1.014079e+00  0.3169772257    1.370767e-02
## 6581    -3  -2.2  -50  1.228219e+00 -1.1334772441    1.653143e-02
## 6582    -7 -12.3  -23  2.519763e+00  0.7411067194    6.931873e-02
## 6583     8  -8.1   17  3.619362e+00  3.0022002200    3.962584e-02
## 6584     3   7.1  -93 -7.780781e-01  2.8981981982   -5.325884e-02
## 6585    -3  -5.0   44 -3.569767e+00  0.8895348837   -1.912869e-02
## 6586     0  -6.1  100  4.396815e+00  0.3249918752    1.089905e-01
## 6587     7   1.1   -6  4.467312e+00  0.1065375303    4.621958e-03
## 6588    10  -4.4  210  2.372043e+00 -1.4058371736    8.965444e-02
## 6589     2  -0.3  -47  5.013730e+00  1.7811475410    7.186316e-02
## 6590    18   1.7   32  4.466667e+00  1.8666666667    4.815667e-02
## 6591     5  -0.5   49 -4.588101e-01  0.3649885584    5.589487e-02
## 6592    23   7.0  -70  1.008034e+01 -0.9572039171    8.130600e-02
## 6593     0   2.7   19 -1.282051e+00 -0.9555555556    2.806067e-02
## 6594    -5   2.0  -68  2.734649e+00 -1.9071637427    1.795748e-01
## 6595   -10   1.0  -91 -7.353440e-02 -1.8450242856    4.074827e-03
## 6596     0   0.5   15 -4.399122e-01  1.2306566673    6.809998e-04
## 6597    10   1.9  -45  1.981399e+00 -0.7889384921    2.151726e-02
## 6598    15   0.2  -57  2.818352e-01  0.7617041199   -1.319286e-02
## 6599     0   4.1   -9  2.227519e+00 -1.4881676809    1.402524e-02
## 6600     5  -5.9  -87  2.229575e+00 -0.3021978022    1.012626e-01
## 6601    -7   7.8   82 -4.103704e+00 -1.5679012346   -1.139430e-02
## 6602    10   3.8 -106 -6.713329e-01 -0.0811523636   -2.307687e-02
## 6603    21   7.4  -96  8.440217e+00 -2.9909420290    3.665954e-02
## 6604   -13 -12.3   63 -5.869565e-01  0.7717391304   -2.995979e-02
## 6605     5   1.8   82 -2.834659e+00  1.6135783946   -1.071451e-01
## 6606     0  -3.7  -50  5.736294e+00 -0.3245614035    5.037108e-02
## 6607   -16   7.0   39 -3.773786e+00 -2.2126213592    1.775849e-02
## 6608     0  -2.3  -21 -1.974638e+00  1.2130434783    2.090080e-02
## 6609     2  -1.5 -265 -2.797804e+00 -0.1057432432   -8.278388e-03
## 6610    20   0.3  -26  3.311207e+00  0.0954022989    5.961419e-02
## 6611   -31  -5.2   54 -1.039321e+01  2.0478435883   -9.046521e-02
## 6612    -3   2.9   55 -2.734326e+00 -0.3682192085   -9.314248e-02
## 6613    13   3.1   -3  5.948693e+00 -1.1440729483    2.692991e-02
## 6614   -21   1.1   -5 -1.407413e+01 -0.2144860749   -1.096587e-01
## 6615    23  -4.1  -43  6.446374e+00  0.6245129870    3.259812e-02
## 6616   -23  -0.3  -11 -7.770379e+00 -0.1887235527   -9.028236e-02
## 6617     2  -3.2   24  1.174630e+00  0.3978858351   -1.992395e-02
## 6618    16   3.3  -33  6.707325e+00 -1.5420659412    8.589641e-02
## 6619    -5   5.3   -8 -2.363426e+00 -1.6705246914   -7.167275e-03
## 6620   -11   9.1   14 -8.386609e+00  0.6259060333   -1.040110e-01
## 6621     8  -4.6   -4  4.848946e+00  0.3794137022    3.318597e-02
## 6622   -13   4.0  -22  2.313333e+00  0.8300000000   -4.730149e-02
## 6623    -8  -4.7  -22 -1.083727e+00  0.8325461089   -1.088157e-02
## 6624     3  -9.1   21 -1.066165e+00 -0.0932330827    4.688326e-03
## 6625    12   3.3  -14  1.981265e+00 -1.7716523342    3.245957e-02
## 6626    10  -3.4  -29  1.261593e+00  0.2159974093   -1.581961e-02
```

132

```
## 6627     0   -4.5    -2  6.725337e-01  1.8209474142    -1.134146e-03
## 6628    13   -4.3   -22 -7.254610e-02  1.0484261501    -4.762060e-02
## 6629     3  -10.8   -19 -2.408411e-01  1.1635706914     3.221042e-02
## 6630     0   -3.2    46 -2.597086e+00  0.2356629172    -3.770112e-02
## 6631    10   -4.2    18 -2.079668e-01  0.5306507600    -7.237295e-02
## 6632     8   -1.1   -71  6.049545e+00  0.4895517358     1.167122e-01
## 6633    -6    1.8   -23  7.491462e-01  1.3740607923     9.024832e-02
## 6634    18   -6.1    32  6.513153e+00  0.0270522388    -5.120377e-02
## 6635     5   -4.3   141  3.775617e+00  2.5790856542     1.750809e-02
## 6636     3    5.3   -52  4.311789e+00 -2.8922782644     8.766595e-03
## 6637     5   -1.4    31 -2.823496e-01 -0.8259290600    -9.017745e-02
## 6638   -18    5.7   -22 -5.047244e+00 -0.8295834670    -1.530521e-02
## 6639     2   -3.3   -31  2.064968e+00 -0.2446051423    -1.093152e-02
## 6640    -5    4.9    26 -8.000392e-01  0.1119329872    -6.948735e-02
## 6641    -5    4.4   -36 -7.304750e+00 -1.7376835843    -1.916745e-02
## 6642    11   -9.5   -34  1.167828e+01  0.8446912651     1.236089e-01
## 6643    18    0.1   -15 -3.782947e-02 -0.5258472041     8.973431e-02
## 6644     6    0.5   -29  4.102800e+00 -0.0548230787     8.750733e-02
## 6645    10   -0.6    35  5.728758e-01 -1.0836393567     7.510522e-02
## 6646    -5   -2.4   -15 -3.515001e+00 -0.1820919727     2.720689e-03
## 6647   -11    2.9   -24 -2.010980e+00 -1.9816817480     6.701864e-02
## 6648    -8    6.9   -24  3.345489e-01 -0.9455363486    -1.262276e-02
## 6649    -7   -4.5    29 -1.887879e+00  0.8575757576    -6.157703e-02
## 6650     2   -2.2    75 -5.086640e+00  1.3388663968    -1.180450e-01
## 6651    -9   -0.8   -49 -8.253811e-01 -1.3499468274     1.197173e-01
## 6652   -10    3.9    33 -7.387615e+00  0.7676034684    -5.911671e-02
## 6653     0   -4.2   -24  3.007184e+00 -0.5287356322     2.332496e-02
## 6654    -8    4.3    66 -3.272857e+00  0.7185714286    -9.309711e-02
## 6655    -2    3.4    79 -3.257296e+00  0.5272979948    -8.390151e-02
## 6656    -3    3.1    19 -2.668905e+00 -0.3403056499    -8.951103e-02
## 6657    13   -7.2   -42  4.645342e+00  0.0574547108     1.041079e-01
## 6658   -18   -1.7    26 -5.069156e+00  1.7349070100    -1.032787e-01
## 6659   -13    2.3    -2 -1.140870e+00 -0.2250194250     8.245733e-03
## 6660    -2   -7.6     4  2.670876e+00  1.4454355885     1.307695e-02
## 6661    -7    2.6    16  3.183270e+00  0.8292425189    -1.415390e-02
## 6662    -5    3.9    28 -4.501084e+00  0.3966502463    -9.955923e-02
## 6663    -7    2.1    15 -9.300699e-01  0.0900349650     2.270052e-02
## 6664    -3    5.8    48 -1.561625e+00 -0.3634453782    -9.683196e-02
## 6665    -7   -1.0    23 -3.133549e+00  1.6637824886    -8.109658e-02
## 6666     3   -4.9    29  3.091585e+00  1.6767123288    -4.313037e-02
## 6667    -5    0.1     9 -3.203722e+00  0.1522100366    -1.496248e-03
## 6668   -10   -0.1    31 -2.201030e+00  1.4805384277    -1.272819e-01
## 6669    -3   -1.1    -3 -6.477827e+00 -0.8475609756    -1.590352e-02
## 6670     3   -0.9    -4  1.409295e+00  1.0065610860     3.338098e-03
## 6671    -3    3.7    17 -3.750000e-01  1.7503387534     1.844693e-02
## 6672     3   -7.3    22 -3.184232e+00 -0.6335784314     1.512395e-02
## 6673     0    9.6    11 -2.378546e+00 -1.1347517730    -1.790310e-02
## 6674     0   -1.9   -47  1.666667e+00 -1.7682811016     6.646033e-02
## 6675     5    3.5    -3  3.441638e+00 -1.1916376307     1.089839e-01
## 6676    10    5.7   -54 -2.118103e+00 -1.4359899026    -4.100937e-02
## 6677    -2   -4.6    26 -4.339496e-01  0.4931092437    -2.571417e-02
## 6678    -2    5.9    72 -1.540043e+00 -1.0887445887    -1.653921e-02
## 6679    -3    3.3   -19 -9.133903e-01 -1.8353276353     5.295018e-02
## 6680   -17    0.0   104 -3.082819e+00  1.6164900967    -6.543392e-02
## 6681     5   -8.4    27  4.720330e+00  2.6708791209     7.182518e-02
## 6682    -1   -0.6    -4  3.894840e+00 -0.3165438165     5.721672e-02
## 6683   -10   -5.4   -55 -5.647525e+00 -4.3089108911    -7.794044e-02
## 6684    -5   -4.3     3 -3.457111e+00 -0.5817448680    -6.525041e-02
```

133

```
## 6685    -8   0.4    21 -1.891892e+00 -1.1025163094    -8.984404e-03
## 6686    -3   2.2    20  7.491741e+00 -0.4274626866     3.013929e-03
## 6687    -5   9.8    -8 -5.167826e+00 -0.8645494333     9.792168e-03
## 6688    10  -5.0   -17  8.155449e+00  1.7520839765     3.279521e-02
## 6689   -16  -0.8    43 -5.243034e+00  0.5054179567    -1.673265e-02
## 6690     0  -8.8    38  2.330473e+00  0.2994082840     1.648044e-02
## 6691     8  -3.4    66 -3.255909e+00 -0.8756611985    -6.081540e-03
## 6692    -5   2.6   -11 -2.331888e+00  1.6154402132    -3.838808e-02
## 6693     3  -0.7   -41  5.566189e+00 -0.9765406814     1.813433e-02
## 6694    15   0.9    25  6.391384e-01 -1.1439196368    -4.174459e-02
## 6695    -2   2.5    12 -1.909910e+00 -0.2972972973    -2.034704e-02
## 6696    10   7.2   -33 -2.345238e-01 -3.3480158730     2.568107e-03
## 6697   -10   0.7   -62 -2.875214e+00 -1.3504387842     4.920363e-02
## 6698   -13  -0.2    32 -6.267790e+00  1.0662075631    -2.620425e-02
## 6699     6  -1.4    30  2.251911e+00  1.2649551346     7.576032e-02
## 6700    15  -8.7   -49  1.017246e+00  0.7014946824     5.134056e-03
## 6701     3  -0.9   -38  5.045119e-01 -0.9797648346    -3.222755e-02
## 6702    -7   7.4   -52  2.014727e+00 -0.7877155172     9.442232e-02
## 6703    -2  -3.4   -23  1.374406e+00  0.2888610763     7.034267e-03
## 6704     0  -0.7   -44  6.478541e-01 -1.0616595136    -4.660939e-03
## 6705    -8  -1.0   -77  2.906042e+00 -1.8697180945     5.076673e-02
## 6706    -2  -0.9    48  3.939394e-01  2.0043290043    -5.769237e-02
## 6707    -8  -2.2   -26 -8.089250e-01  0.2363905325     4.201464e-02
## 6708     5  -5.2   -35  4.808480e+00  1.6526051886     1.011297e-01
## 6709     3   0.6     2 -1.209951e+00  0.9985274742     4.941783e-02
## 6710     8  -8.5    27  3.523173e+00 -0.2449197861     5.152245e-02
## 6711    13  -2.6    51  4.306878e+00  0.6513227513    -1.164070e-02
## 6712    -8   7.0    61 -1.050574e+01 -0.1134883721    -1.195189e-01
## 6713    -2   0.3    58  1.054754e-01  2.3994080651    -4.130960e-02
## 6714     2  -4.8    18  4.354721e+00 -0.3449059053    -2.546921e-02
## 6715    13  -0.6    32  2.171429e+00  1.0496240602     7.537799e-02
## 6716    -8   9.0    15 -2.481132e+00 -1.0094339623    -3.420626e-02
## 6717     8  -2.1   -39  2.787148e+00 -0.6602992958     9.185635e-02
## 6718   -18   4.3    35 -5.147397e+00  0.8471239054    -1.816282e-02
## 6719    15  -2.8   -39  7.833333e+00  1.6388888889     5.336914e-03
## 6720   -16   3.3    60 -6.232649e+00 -0.6595796676    -1.863513e-02
## 6721     2  -3.4   -58  1.156692e-01 -1.1924066924     1.069743e-01
## 6722    -3   5.0    22 -3.582356e-01  0.6211116777     2.434756e-02
## 6723   -12   5.8   -10  2.112124e+00 -1.5653886010     5.330490e-02
## 6724    -7   0.6   -24  4.872098e+00 -0.1129307968     4.872130e-02
## 6725     3  -2.9     6  5.373752e+00  2.0080895009     6.374983e-02
## 6726     6  -2.3   -40  5.492023e+00 -0.8757834758     8.194246e-02
## 6727   -16   3.4    37 -3.657984e+00 -0.1397494532    -5.547096e-02
## 6728   -10  -1.9   -49 -7.681589e-01 -0.0729116369    -3.965670e-02
## 6729   -11   2.9   -28 -4.432879e+00 -2.8175269535     1.073903e-01
## 6730     2   1.4     8 -6.266225e+00 -0.0504522869    -1.682716e-02
## 6731   -16   8.6    30 -1.075961e+01 -0.8201865988    -1.071025e-01
## 6732    -3   1.6   -59  1.740260e-01 -1.3945616883     4.999690e-02
## 6733     5  -1.9    -9  1.821772e+00 -0.1079416390    -4.780754e-02
## 6734    11  -4.5     8  1.139283e+01  1.4797979798     2.526577e-02
## 6735    -2   0.8     7  5.048000e+00  0.7178596766    -5.335254e-02
## 6736     5   0.5    -6  9.986842e+00  0.2763157895     8.071873e-02
## 6737   -20  -2.7   276 -3.013171e+00  2.3662190083    -4.297581e-02
## 6738   -16   1.2     7 -7.051800e+00  0.5111111111     5.290445e-03
## 6739    -6   1.7    38  1.711779e-01 -2.3213032581     9.463541e-02
## 6740    10  -5.3    69  3.063068e+00  1.3375000000     1.722212e-02
## 6741     0  -7.3    17  1.647401e+00  0.6045871560     1.482403e-02
## 6742     2  -2.6   158 -2.616667e+00  0.9295321637    -6.517825e-02
```

```
## 6743    -10    1.2    18 -4.878171e+00  0.9029280518      -1.973369e-02
## 6744     -5   -1.2    80 -1.320035e+00  0.4228723404       2.913402e-03
## 6745      5   -3.2    14  1.095265e+00  0.8718053735      -7.638476e-03
## 6746     -2   -3.6   -17 -2.122751e-01 -0.3743915344      -9.168239e-03
## 6747      0   -1.4   -73 -8.512949e-01 -3.1549707602       3.397592e-02
## 6748      5   -7.1     5  6.054696e+00  1.7167612659       3.463747e-02
## 6749    -13   -2.9   -72  1.752825e+00  0.2204767064      -1.579598e-02
## 6750     -3   -3.7    27 -9.021645e-01  0.8277056277       1.760025e-02
## 6751      0    0.9    17 -8.184127e-01  0.6336507937       2.019849e-02
## 6752     -5    5.0     7  9.335885e-02 -0.1916606872      -4.842971e-02
## 6753      5   -3.6    13  5.245011e+00  0.1643317879      -1.993382e-02
## 6754    -13    1.6   -69 -1.115872e+00 -0.6961948557       8.880224e-02
## 6755      3   -2.3    43  1.434481e-01  0.4717128801      -5.324435e-02
## 6756      2    7.8    22 -3.204406e+00 -2.8386270492       1.325920e-02
## 6757      3   -0.9   -34  4.811939e-01 -1.0000000000      -3.005295e-02
## 6758     -5    0.3    47 -1.555975e+00  0.2648621042      -1.600163e-02
## 6759      7   -4.3   174 -2.106999e+00  1.5492723493      -1.196047e-01
## 6760     10   -4.9    36  2.351613e+00  0.5592375367      -2.771287e-02
## 6761     -8    7.2     2 -3.792600e+00  0.5093759726       1.228933e-02
## 6762      4   -1.8    24  2.992476e-01  1.0817373461      -6.661079e-02
## 6763      5    5.4    38  1.421569e-01 -1.4852941176       6.316801e-03
## 6764     -2   10.4   -33 -2.816184e+00 -0.1109018130       1.825751e-02
## 6765     -5   -5.9   -35  1.815789e+00 -0.7960885821      -2.572441e-02
## 6766      5   -2.8    41 -3.507123e+00  0.3663723917      -7.139963e-02
## 6767    -15    3.8    45  8.665105e-01  0.6958012713      -1.016102e-02
## 6768    -23   -0.7   -50 -1.392702e+00  0.6384949896       8.638093e-02
## 6769    -16    3.1   -59 -2.115488e+00 -0.7388084158       4.641466e-02
## 6770    -10    1.8    20 -5.781368e-01 -0.1041823947       1.876517e-02
## 6771     15   -2.3    25  1.404672e+00  0.1868421053      -5.272881e-02
## 6772      2   -5.5    13 -2.588796e+00 -1.9756487517      -2.484901e-02
## 6773     -3   -3.9   -33  2.548162e-01 -0.5212089077      -1.177728e-02
## 6774    -15    1.9   -14 -1.424839e+00 -0.1338910339       8.603281e-02
## 6775     18   -3.8    48  2.367197e+00  0.6701879545      -8.483013e-02
## 6776     -5   -6.7    42  1.268930e+00 -0.4485568761      -2.805597e-02
## 6777     -8    3.0   -12 -3.495644e+00 -0.3727581810      -2.345813e-02
## 6778    -10   -5.5     7  1.212121e-01 -1.3721590909       2.167102e-02
## 6779      2   -1.6   -51  9.854956e-01  2.4683051303      -6.258682e-03
## 6780     10   -5.6   121  2.682318e+00 -0.3431568432      -2.850233e-02
## 6781    -18    9.6    27 -1.216860e+01  0.1522898154      -6.243573e-02
## 6782      8    7.0   -13  1.074887e+00 -0.9103603604       2.791185e-02
## 6783     10    1.6    54 -1.589405e+00 -0.0008648649      -3.684095e-02
## 6784     -4    1.8   -29 -2.806097e-01 -1.0524737631       6.952482e-02
## 6785      0   -1.8   -11  1.917457e+00  1.7832179783       1.758226e-02
## 6786      2    3.0    15  1.865756e+00  1.1511480683       5.590069e-03
## 6787     -5   -0.3    -9  4.682143e+00  0.1059523810       3.320918e-02
## 6788     28    1.4   -65  5.721927e+00 -0.7710893855      -1.632334e-02
## 6789      5   -3.1     6 -5.098967e-01  0.8623063683      -4.375902e-02
## 6790      3   -1.0   -84  2.577892e+00  1.9418671249       5.506340e-02
## 6791      5    4.9     6  1.413490e+00 -1.3696114370       6.219914e-02
## 6792      3    0.8   -64  6.562056e+00 -1.3238526180       3.377949e-02
## 6793     -2    5.8    -7  1.865752e+00  1.3832089765       6.371737e-02
## 6794      3   -3.2     2  3.149074e+00  0.8143231114       1.788821e-02
## 6795      3   -6.1    -7 -3.321409e-01 -0.3098607979      -7.000653e-03
## 6796     -3   -3.9     7 -5.766874e+00 -0.4615384615      -8.664925e-02
## 6797    -18    1.9    47 -1.221095e+01  1.7234874626      -1.271504e-01
## 6798    -18    2.6   102 -5.314001e+00  1.0717857413      -7.812821e-02
## 6799      5    8.6    17  2.940467e+00 -0.1130786744       7.330591e-03
## 6800      3    0.2     9  4.434085e+00  0.1536783461       4.653113e-02
```

```
## 6801      8 -13.9     5  1.411948e+00 -1.0508114237        1.314863e-02
## 6802      0  -4.0    27  1.664443e+00  0.6629697134       -5.099408e-02
## 6803     -5   2.7   -66  3.058548e+00  1.0942344151        6.424087e-02
## 6804     -8   7.1    32 -9.636094e+00  1.2508425614       -6.164806e-02
## 6805      2  -2.0    69 -3.484050e+00  0.3595315149       -1.221302e-01
## 6806      0   3.6    23 -3.734573e+00 -0.6655639098       -4.585554e-02
## 6807     -5   2.1   -12 -2.851379e+00 -1.7287998826       -6.972116e-02
## 6808    -18   2.2    -8 -8.278402e+00 -0.5882971729       -3.562283e-02
## 6809      7  -5.2    18  2.973553e+00  2.0990648743       -2.444369e-02
## 6810    -11   3.0   -32 -4.416839e+00 -2.7985705295        9.472868e-02
## 6811      0  -3.1   -19  4.342032e+00 -0.4158097534        6.729437e-04
## 6812     -8  -4.0    23 -2.432635e+00 -1.4829329962       -5.182259e-02
## 6813    -13   4.4   -45 -3.259510e+00  0.4044198139        6.432501e-02
## 6814      0  -0.9   -43  5.581579e-01 -0.7000000000        4.180127e-02
## 6815    -26  -0.8    92 -1.457057e+01  1.2366471735       -1.587888e-01
## 6816    -15  -3.9   -28 -5.546759e+00  0.3759259259       -2.492851e-02
## 6817      0  -2.7   -46  3.583669e+00 -1.4209283024        9.387145e-02
## 6818      5  -6.2    13 -7.971014e-02  0.7057165862       -5.630032e-02
## 6819      0   1.4    38 -4.851456e+00  1.8550466300       -5.259675e-02
## 6820     -7   2.4    14 -2.947718e+00  0.0012089810       -7.082346e-02
## 6821     -7   0.7   -21 -2.710726e+00 -0.4416625871        2.533879e-02
## 6822     -2   3.9    26  6.595210e-01  1.1263552139       -5.401700e-02
## 6823     13   4.0     9  3.230704e+00  1.4742848331       -1.925606e-02
## 6824     -5  -0.5    61 -3.653900e+00  0.5615089514       -3.777643e-02
## 6825      7   8.4   -14  5.365712e+00 -1.2853457172        1.378848e-01
## 6826      5  -0.1    -7  3.231757e+00 -0.1289501040        5.729191e-03
## 6827      6   1.7     3  7.652635e-02 -0.1159544386       -9.413728e-03
## 6828     10  -4.1     1  1.648762e-01 -0.6334534345        6.926425e-03
## 6829      2   3.9    97 -8.832117e-01  0.7591240876       -3.154071e-02
## 6830     13  -0.5    -9  1.098394e+00 -0.1892293157       -3.430342e-02
## 6831      5  -0.3  -108  1.800000e+00 -2.1028985507        1.129321e-01
## 6832     -2   1.2    10  3.223326e+00  0.9992360581        1.412949e-02
## 6833     15  -8.6   -58  1.055944e+00  0.6276223776        1.666444e-02
## 6834      0   2.1    53 -3.279955e+00  0.1954087346       -1.190621e-01
## 6835    -13   1.2   182 -2.637183e+00  0.8412503413       -5.674035e-02
## 6836     20  -5.0    -8  5.051673e+00  0.0238918385        4.239582e-02
## 6837    -18  -1.4    25 -9.643174e+00 -0.6454970724       -1.080137e-01
## 6838      0   1.4     6 -5.990375e-01  1.8049645390       -7.775299e-03
## 6839     -8   4.4    36 -6.523174e-01 -1.0610469477       -5.419251e-02
## 6840    -18   7.2     6 -8.061269e+00 -0.6725479248       -3.619362e-02
## 6841     -3  -0.6     9  1.286485e+00 -0.9882700058       -5.202002e-02
## 6842      5  -7.1     5  6.035389e+00  1.6968318166        3.698098e-02
## 6843     12   3.3    -4  1.936813e+00 -1.7509157509        2.457114e-02
## 6844      0 -10.6    27 -2.000000e+00  1.1806451613       -3.628527e-02
## 6845     11  -5.1    18  5.637493e+00  2.1281045752       -1.532783e-02
## 6846      2   3.6    20 -1.890206e+00  1.3629870130       -1.912103e-02
## 6847     -5  -8.1   -49 -3.695652e-01  0.3043478261        2.669838e-02
## 6848      0   5.4    14  3.410819e+00 -0.6622788976        1.482578e-02
## 6849    -12   4.9     7 -1.001305e+00  0.7810221779        7.394020e-02
## 6850     15  -3.0   -54  7.051802e+00  3.0090090090        9.895234e-04
## 6851      5  -6.0   -12 -6.070336e-01  0.1934250765        1.436875e-02
## 6852    -13   1.4   -10 -5.516281e+00 -1.2434533917       -1.838843e-02
## 6853      5   4.3   -16  2.349721e+00  0.9725139665        2.959671e-02
## 6854      0   3.3    94 -4.269035e+00 -0.0475717302       -1.760056e-02
## 6855      3  -2.6   245 -1.585859e+00 -1.6759641467       -9.285409e-03
## 6856    -13   6.5    88 -1.352560e+00  0.7230257117       -8.540321e-02
## 6857      5   2.3    14  3.551418e+00  0.1750830656        5.110167e-03
## 6858     -8  -1.0    39 -1.241912e+00 -0.5485294118       -5.102106e-02
```

136

```
## 6859    -13    1.7   -49 -1.799964e+00 -2.0640933141    2.758786e-02
## 6860     10   -4.2    43 -3.392018e+00  0.6133333333   -4.617987e-02
## 6861     -3   -2.5     4  1.298079e+00  1.4129273900    1.584085e-02
## 6862     -7   -1.0    20 -7.168900e-01  2.4968427410   -1.186872e-01
## 6863    -13   -2.4    75 -3.187303e+00  0.8863993711   -1.203855e-01
## 6864    -11    7.3    -4 -1.337419e+00 -0.7196774194    1.577414e-02
## 6865    -10   -2.9   -14 -5.059902e+00 -1.3904376499   -6.959329e-02
## 6866      0   -1.1   -35  4.087652e+00  0.1116551230    1.018987e-01
## 6867    -15    5.6   -16 -7.612286e-01 -1.9936718629    5.325405e-02
## 6868      3   -5.0    17  8.054005e-01  0.7881188119   -2.184729e-03
## 6869      0    2.5    13 -6.273504e-01  0.1803418803    2.341155e-02
## 6870     -3   -0.1  -290  5.126141e+00  0.2664110484    9.947794e-02
## 6871     -8   -1.4    22  3.148148e+00  0.2433485179   -8.015815e-02
## 6872     -7    0.7   -21 -2.741837e+00 -0.4581454086    2.076187e-02
## 6873      5   -2.2    41  5.885193e+00  2.3865419988   -4.389975e-02
## 6874      2    0.6   -29  1.256188e-01 -2.0553217822    1.137639e-01
## 6875     -2   -0.8    -8  3.976968e+00  1.8782476686    1.030291e-01
## 6876    -18    4.5   -15 -4.751232e+00 -1.8508312808   -5.802557e-03
## 6877     -2   -3.4    14 -3.145430e+00  0.8614906832   -1.279462e-01
## 6878      8    1.7     5  2.829359e+00 -0.2114212166   -2.809085e-02
## 6879    -10    4.2    -1 -1.277858e-01  0.6679890340   -8.658896e-03
## 6880      6   -3.0    -1  4.262868e+00  1.9612745098    1.434672e-02
## 6881    -18    9.3   -21 -2.757576e+00 -2.7229437229    8.227902e-02
## 6882    -11   -0.7    -1 -4.346817e+00 -0.7885999475    1.976051e-02
## 6883     11   -7.7    33 -6.386006e-02  2.6919986609   -1.511435e-01
## 6884      0   -4.8     2 -4.446261e+00 -0.0740161490   -4.829536e-02
## 6885      5    8.0     9  1.787402e+00  2.4188976378    8.389593e-02
## 6886    -10   -6.5     8 -1.372581e+00  1.3819074334    3.805513e-02
## 6887      3    4.2    -8  3.063544e+00 -2.3613172542   -3.594053e-02
## 6888      5   -4.2    -2  2.483152e+00  0.7201086957    5.928222e-02
## 6889    -20    7.8    53 -5.139825e+00  1.2063829787   -1.065528e-01
## 6890     -2  -10.3    11  8.817402e-01 -0.8054534314   -1.197361e-02
## 6891     15   -1.9     6  2.758741e+00  0.6758241758    1.124677e-02
## 6892     -2    5.0    19  5.910041e+00 -0.5408902692   -6.899802e-03
## 6893     -3    0.1    -5 -1.208593e+00 -0.2480942481   -1.380047e-02
## 6894     -3    8.1   -38 -4.821741e+00 -0.6059419622    4.762101e-02
## 6895    -13   -3.7    24 -6.164220e-01  2.6481680391    1.366184e-02
## 6896      0   -2.0    24  2.261005e+00 -0.4365296804   -8.389187e-02
## 6897     -5    6.7    15 -2.937879e+00 -0.7500000000   -5.277697e-02
## 6898     -5   -1.3   -31 -4.934087e+00 -2.6655066700    1.005387e-02
## 6899     -5   -0.5   108 -3.488984e+00  1.8886168911   -1.176384e-01
## 6900      4    1.6    -8 -2.200112e+00  0.0814398200   -2.620225e-02
## 6901      0   -6.3    32  3.059622e+00  0.3457166981   -1.824564e-03
## 6902    -10    0.5    50 -1.528537e-01  1.3348512447    1.851067e-02
## 6903     10    5.0    18  1.222706e+01  0.5488060327    9.025210e-02
## 6904      0    4.9    32  4.317318e+00 -0.0251798561    4.737000e-02
## 6905     -5    2.1   -55  3.758925e+00 -1.0628059701    1.114351e-01
## 6906      5   -8.5    36  4.453202e+00  2.6034482759    5.845578e-02
## 6907      5   -5.9    91 -3.580353e+00  0.2412753124   -1.423919e-01
## 6908    -23    0.6    27 -1.046345e+00  1.7186206897    1.674765e-02
## 6909     10    0.6    -5  8.429705e-01 -0.2413832200    2.685010e-02
## 6910     -2   -1.1   -12 -1.968435e+00 -1.4513262599   -7.316202e-02
## 6911     -5    1.7    80 -5.046627e+00 -1.1011904762   -4.100897e-02
## 6912     -1    3.1    -7 -5.604540e+00 -0.1732377539   -8.185568e-03
## 6913    -13   -6.5    -8  1.403544e+00  1.5311392405    3.779758e-02
## 6914     16   -3.9   -35  6.386540e+00  1.1570319241    6.009783e-03
## 6915     15    0.8    80  5.861404e+00  0.1196511942    5.741790e-02
## 6916     12   -3.8    50  1.473315e+00 -0.2998643148   -1.070866e-02
```

```
## 6917     16    1.9   -48  9.705729e+00  -0.3333333333     1.341440e-01
## 6918      2    6.8   -23  1.233118e+00  -0.3882902299     1.641201e-02
## 6919      0    2.4    19  2.857733e+00   0.0473787680     3.695188e-02
## 6920     -5   -6.8    36  1.399497e+00  -0.3660223165    -2.998779e-02
## 6921      5   -5.4    85  2.488663e+00   2.5729272420     3.768139e-02
## 6922     -8   -4.2    57 -4.787648e+00   0.1040609137    -1.595677e-01
## 6923     10   -1.1    -6  1.710668e+00   0.8424657534     4.133445e-02
## 6924     -5   -2.2    58 -2.527214e-01   1.3015833746    -1.606375e-03
## 6925    -10    3.8    55 -6.943935e+00  -0.8693786982    -7.606902e-02
## 6926    -10    4.0    27 -5.655556e+00  -0.2075268817    -7.465637e-02
## 6927     -3   -0.6   -40 -2.112923e+00  -1.3538003403    -3.823846e-02
## 6928      3    1.0   -36  3.073071e+00  -1.1399097357     3.364740e-02
## 6929      0    6.1   -82 -9.150734e-01  -0.4575366830     1.321889e-01
## 6930     13   -3.0    -7  7.558579e-01  -0.4583018393    -2.002421e-02
## 6931      5   -6.1    26  4.829814e+00  -0.1886956522     8.006046e-02
## 6932    -13    0.6   -56 -6.874947e+00  -0.4646180111    -4.806404e-02
## 6933      0    2.7    23  1.060280e+00   0.0048328109    -2.008420e-03
## 6934    -18    5.7   -27 -4.831488e+00  -0.8024259199    -7.615334e-03
## 6935     -8   -3.6    57 -9.453061e-01   2.5877551020    -7.691680e-02
## 6936     -2    5.3   -32  4.803712e+00   0.5382452193     1.461032e-01
## 6937      3   -7.5   -46  3.460344e+00   0.6079472329     6.924944e-02
## 6938      5    5.9    36 -1.770931e+00   0.8469190384     2.783515e-02
## 6939      5   11.3    -7 -1.155525e+00  -0.4368131868    -5.184721e-02
## 6940     -3    2.1   -12  1.185714e+00   2.0633116883     8.436144e-02
## 6941      0  -12.1    84  6.315623e-01   1.3807716635    -1.498057e-02
## 6942      3    9.3   -39 -4.117037e+00  -1.2582716049    -9.483761e-02
## 6943      2    1.2   -17 -1.506914e+00  -0.3009708738    -5.651911e-02
## 6944    -23    2.3    50 -1.278012e+01   0.2685000664    -1.412093e-01
## 6945     -3   -3.6    14 -2.494688e+00   0.9355561566    -5.250660e-02
## 6946     -2    4.5    25  5.185185e-01  -0.3333333333    -2.719400e-02
## 6947      0    6.6    73 -9.748284e-02  -1.2725400458    -1.088480e-01
## 6948    -10   -2.4  -161 -2.457402e+00  -1.2078374456    -3.687528e-02
## 6949     11   -1.1    55  5.514713e+00   1.4436407474    -9.737902e-02
## 6950     17  -11.2   -64  1.757696e+00   0.1841112214     1.145193e-01
## 6951    -13   -2.7   443 -2.073670e+00  -0.0771578030    -1.019196e-01
## 6952    -12   -1.3  -528 -4.863971e-01  -0.1963235294    -4.020411e-03
## 6953    -13    3.9    13 -5.849442e-01  -1.2759565564     4.263437e-02
## 6954     -5    1.2   -28  3.426667e+00   1.3188405797    -3.745904e-02
## 6955      3   -2.2   -75 -2.250174e+00  -0.6747386760    -4.665407e-02
## 6956     10   -3.5    85  2.383795e+00  -0.6577430309    -6.833811e-02
## 6957     -5    5.1   -57 -2.583710e+00  -1.5552036199     5.511316e-02
## 6958    -13    0.2   -25 -4.874126e+00  -3.3846153846    -1.574214e-01
## 6959    -15    2.8    41 -7.166836e+00  -1.3955375254    -2.695551e-02
## 6960     -2   -2.9    12  2.441200e+00  -0.0128171247    -2.203249e-02
## 6961     -2   -0.3   -83 -1.746212e+00   1.0156926407     2.857841e-02
## 6962      0   -7.1   -12  4.444444e-01  -0.7333333333     1.773419e-01
## 6963      8    0.4    92  4.549020e-01   0.1394523327    -2.264067e-02
## 6964     -3   -0.9    75  6.710759e-01   1.7333120644    -4.501587e-02
## 6965    -12    4.6    54 -6.024113e+00  -2.0680851064    -4.323623e-02
## 6966     -7    6.3   -25 -2.641388e+00   0.7868774516    -7.569512e-02
## 6967     10   -5.9   132  9.444444e-01   0.5877192982    -4.391532e-02
## 6968     -2   -3.2    51  1.118223e+00   1.0927267848     4.312452e-02
## 6969      7   -1.6    92  1.149767e+00   3.0464211618     1.693340e-02
## 6970    -11   10.4    40 -7.865762e+00  -0.9226998492    -9.877318e-02
## 6971     12    3.8   -57  4.265054e+00   0.8983870968     8.695167e-02
## 6972    -18   -1.3    95 -6.532075e+00   1.3216726160    -4.060331e-02
## 6973      2   -4.5   -10 -7.455596e+00  -1.2387490465    -1.193893e-01
## 6974     -7    4.6     5  8.508772e-01  -0.0672514620     4.140631e-02
```

138

```
## 6975  -13   9.0   -83 -5.678598e+00 -1.2967934377       -1.517193e-01
## 6976  -19   3.3   -58 -9.406439e-01 -0.6703378164        1.236985e-01
## 6977    7   4.3   -72  2.426190e+00 -1.1785714286        9.405474e-02
## 6978    0   0.5   -31 -1.915592e+00 -1.8967029260       -5.472360e-02
## 6979   10   4.9    16  1.212005e+01  0.7214452214        8.093950e-02
## 6980  -10   5.7    70  2.410184e-01 -1.2202119411       -8.467529e-02
## 6981    0   1.3   -32 -3.001182e+00 -0.8940394089       -2.421815e-03
## 6982   -8   6.2    39 -2.736111e+00  0.7001262626       -2.650018e-02
## 6983   13  -4.5   -91 -3.085714e-01 -0.1378571429        2.273961e-02
## 6984   -3   3.8    68  1.220633e+00  1.1272834762        8.784716e-03
## 6985    3  -2.5  -652 -1.128788e+00  0.6607142857       -1.405727e-02
## 6986    0   9.1   -29 -2.425397e+00 -2.2698412698       -2.026184e-02
## 6987   13   0.1   -57  4.922876e+00  1.0908496732        7.046098e-02
## 6988  -10  -8.5    35 -7.220965e-01  0.7217194570        2.910509e-02
## 6989   -3  -4.4     2 -9.398073e-01  0.8121571534        1.983354e-02
## 6990    2  -3.1    43  1.251429e+00 -1.5342857143       -7.016725e-03
## 6991   -3  -3.0    82 -1.865854e+00  0.5308943089       -2.033750e-01
## 6992  -13  -1.4     6  1.718958e+00  2.0975166566        4.386957e-02
## 6993   -3 -14.5   104  1.622106e+00  1.6971620612        3.012800e-02
## 6994   23   7.0   -71  9.849623e+00 -0.9740285488        8.030690e-02
## 6995    7  -8.3    94 -1.107143e+00  0.2252747253        2.713250e-02
## 6996   -8  -0.6   -41  1.835140e+00 -1.9494137600       -7.919508e-03
## 6997    5  -3.1    31  1.300187e+00  2.3534080299       -5.538930e-02
## 6998  -18  -1.8    -7 -4.029648e+00  0.5095652174       -1.016264e-01
## 6999    6  -7.0   -81  2.967663e+00 -0.6675526024       -9.135504e-03
## 7000   -5  -3.2   -35 -4.652482e+00  0.1347517730       -2.414680e-03
## 7001   -5   0.1   -36  8.400245e-01  0.0647490820        4.595276e-02
## 7002  -13   3.6    43 -4.250818e+00 -1.5302071974       -7.826058e-02
## 7003  -10   5.2     6 -3.848138e+00  1.3477784998        3.538461e-02
## 7004    0   2.3   124  2.110398e+00  2.0133504493       -5.827498e-02
## 7005    3   2.0    41 -8.222669e-01  0.1398390342       -2.038124e-02
## 7006   10  -5.3    28  4.170109e+00 -0.1911231884        6.837505e-02
## 7007   -2  -3.0    82 -7.031727e-01  1.9124951038       -6.971977e-02
## 7008   -5  -1.7   -52  4.137509e+00 -0.5297221946        3.065871e-02
## 7009    6 -10.6   -39  6.245139e+00 -0.1814890511        5.006161e-02
## 7010   18   4.0   -57  4.747312e+00  0.1666666667        2.003972e-02
## 7011   -3  -7.5    76 -8.549878e+00 -0.5587515300       -1.831950e-01
## 7012    0   1.3    42  3.398502e-01  1.0559550562       -6.600611e-02
## 7013   -3   3.7    30 -6.504074e+00 -0.1906118537       -1.058820e-01
## 7014    5   1.1   -41  5.442377e+00  1.8057222889        8.756025e-02
## 7015   -8   0.6    -8 -2.699867e+00  0.5622986729       -1.212730e-02
## 7016   -3  -1.0   744  2.305970e-01 -0.3052985075       -3.169283e-02
## 7017   18  -4.2   -67  8.673428e+00  1.7548428363        6.113602e-02
## 7018   -5  -4.4    40 -4.627057e+00 -0.0899681529       -1.096763e-02
## 7019   -5  -3.6   185 -4.038018e+00  0.2207726764       -1.069105e-01
## 7020    0   4.0   -27 -1.654222e+00 -0.6699867436        4.634767e-02
## 7021   20   2.2    35 -2.033213e+00 -0.7772090517       -8.436725e-02
## 7022  -18   7.1    -7 -9.700000e+00  1.1775641026       -5.614960e-02
## 7023   -3  -2.0   -19  2.773965e+00 -0.3767172259        1.115437e-02
## 7024   -7  -0.9    25 -6.142879e-01  2.4435921277       -1.152339e-01
## 7025   18   0.6    11  5.289928e+00  1.3622110019       -1.438302e-02
## 7026   20  -5.6    13  3.767452e+00  1.7945026178       -3.651346e-02
## 7027    7  -5.0   -39  3.182867e+00 -0.7235865220        3.170897e-03
## 7028   13  -4.3    47  4.363497e+00  1.8255458070        1.823919e-02
## 7029   -7  -1.5    -9  3.798354e+00 -0.0583432895        3.757308e-02
## 7030   -7  -4.6    -9  4.248004e+00  0.2373479036        7.001112e-02
## 7031  -13  -0.5   -38 -7.793094e+00 -1.3365110862       -1.542138e-02
## 7032    0  -1.9    19 -2.233682e+00  1.8595104539       -2.353999e-02
```

139

```
## 7033      5  -2.6   -46 -1.128663e+00  0.0900000000         2.595944e-02
## 7034     15  -2.8     2  6.539280e+00  1.1766747657         5.381258e-02
## 7035      0  -0.4    29 -1.197222e+00  2.0233319030        -1.308626e-01
## 7036    -10   3.6    18  1.715212e+00 -0.1901486401        -1.759374e-02
## 7037     -5  -4.2    17 -2.357919e+00 -0.9722049689        -3.222097e-02
## 7038      7   3.5   -11  8.704545e-01 -1.3791958042         8.592328e-02
## 7039      2  -1.2    -1 -9.174970e-01 -0.1439462560        -5.819003e-02
## 7040     -3   3.3    21 -4.422727e+00 -0.0695670450        -2.453487e-02
## 7041     28  -4.1    20  7.215752e+00  0.5608043977        -2.654301e-02
## 7042     -5   0.9   -49  1.779903e+00 -0.1596944853         8.359597e-02
## 7043     -2  -3.4    15 -3.099783e+00  0.8923006225        -1.289188e-01
## 7044      0  -9.1   -13 -1.559483e+00 -1.1481776161         3.019102e-02
## 7045     -2   1.2     6  3.378948e+00  1.0524154537         1.462397e-02
## 7046      5  -0.1    29  9.223478e-01 -0.0057124922        -7.034242e-02
## 7047     -3   3.7    -5 -1.985274e+00 -0.7906227912         3.214990e-02
## 7048     -3   0.9     3 -1.529686e+00 -0.9667768595        -3.985802e-03
## 7049     13  -3.0     3  6.504831e+00  0.1358105209         2.407638e-02
## 7050     10  -4.2    -1  1.458333e-01 -0.6868645606         1.273994e-02
## 7051     -5  -9.1   -97 -2.424242e-01  0.0606060606         6.982116e-02
## 7052    -10  -3.3   -72  9.803922e-01  2.8518907563         5.870565e-02
## 7053    -10  -5.7    -3 -6.871032e+00  0.4067460317        -8.744447e-02
## 7054      7  -3.2    -2  2.101903e+00  0.8608968351         1.157111e-02
## 7055     -6   8.0   197 -5.246154e+00 -0.3333333333         9.145245e-02
## 7056    -15  11.3    42  2.080997e+00  1.0396973743        -5.470025e-02
## 7057     -3   4.3    52 -6.278883e+00  1.0196783749        -9.422953e-02
## 7058     13  -0.1   -12 -1.042889e+00 -2.1516871649        -7.976148e-03
## 7059     -5  -0.7   -54  3.261802e+00 -0.3883422902         1.005011e-01
## 7060      0   6.5   -27 -2.459821e+00 -2.1145833333        -4.337684e-02
## 7061    -10  -4.0   -51 -2.787391e+00 -1.4262490087        -5.557123e-03
## 7062     10   0.8  -100  4.434851e+00 -1.5740450026         8.570090e-02
## 7063     -2   3.1   -21 -1.180165e+00 -0.4016032982         2.822738e-02
## 7064     -3  -4.5    32 -1.720081e+00  1.3455037187        -3.289070e-02
## 7065    -10  -2.8   226 -7.330508e-01  1.1271186441        -6.871713e-02
## 7066    -10  -1.8    -1  2.006466e+00  1.2004310345        -4.657268e-02
## 7067     10  -3.2    -4  3.413333e+00  3.5966666667         2.084609e-01
## 7068      2   9.2  -163  4.438570e+00 -1.5271966527         1.157964e-01
## 7069      4   7.6     2 -2.084686e+00  0.5466531440         4.185295e-02
## 7070     -7   2.9    15 -3.045543e+00  0.0704941860        -9.923760e-02
## 7071      2 -10.4    27  2.864681e+00  0.2541536864        -2.416803e-02
## 7072    -13   6.1    60 -3.988545e+00 -0.1319917441        -5.789108e-02
## 7073     -3   7.2   187 -4.585327e+00 -1.5311004785         9.308072e-02
## 7074     -2 -10.8    46  2.949242e+00  1.2590582602         4.444856e-02
## 7075     -2   2.6   -50  4.594214e+00 -1.1785218942         8.519123e-02
## 7076      5   7.5    16  1.605511e+00 -0.2325268817         3.296563e-02
## 7077      3  -2.8    23 -2.806573e+00  2.1300066430        -2.257208e-02
## 7078      2   3.6   -52 -1.804792e+00 -1.7314877487         1.320681e-03
## 7079     -7   2.1  -161  4.148849e-01 -0.3601973684        -3.895967e-02
## 7080     -2   5.1    27 -3.611082e-01  0.3773905652        -4.762144e-02
## 7081     13   8.8   -30  5.048187e+00 -0.8766578249         5.482594e-02
## 7082      5  -6.0   153 -4.536494e+00  0.6284482759        -1.676372e-01
## 7083     -2  -6.5    79 -2.743793e+00 -0.7762330354        -3.762784e-02
## 7084     -5   8.4   -56 -2.043497e+00 -0.3501291990         4.207687e-02
## 7085      5   1.3    11 -2.526234e+00  0.3623963419        -4.541901e-02
## 7086     -5  -2.7   -24  1.815830e+00  0.5983266954         1.700641e-02
## 7087     -3  -3.3    -8  1.346073e+00 -2.0407324222         6.258830e-02
## 7088      0   5.3   222  1.689020e+00  0.9911709060        -9.935508e-03
## 7089     -2   4.0    20 -1.692756e+00  0.2515197568        -1.333168e-02
## 7090      2   0.9   -26  3.637829e+00 -1.0527351436         9.384368e-02
```

```
## 7091    18  -4.1   -71 -1.061568e+00  0.4395141895        8.911795e-02
## 7092     8   1.0    71 -4.398740e+00 -1.3337162350        2.069720e-02
## 7093     0  -1.4   -59  5.287691e+00 -0.4088235294        1.032750e-01
## 7094     2  -0.9    15  1.917143e+00  0.2485714286        5.193407e-02
## 7095    16   3.2   -87  2.750000e+00  0.2254901961       -4.670352e-02
## 7096    17   1.8   -59  3.673410e+00  0.0549132948        5.379420e-02
## 7097    -8  10.2    54 -6.596702e-01  0.4908545727       -2.583697e-02
## 7098   -13   8.1    48 -1.159997e+00 -0.1742668449       -8.329978e-02
## 7099    15  -3.8   -42 -1.052660e+00 -0.6864092871        1.277074e-02
## 7100    -3  -0.3    -7 -4.464107e+00  0.0464285714       -8.943896e-02
## 7101   -10  -0.8   -65  8.843537e-01  0.2993197279       -1.055165e-02
## 7102    -3  -3.0    85  1.150784e+00 -0.4318840580       -2.892054e-02
## 7103    -4  -1.8   -63  3.406670e+00 -0.4487261554        1.212827e-01
## 7104     2  -7.4   -81  2.282955e-01 -0.2031385804        2.375150e-02
## 7105     2  -2.3    53 -1.329086e+00 -0.3076714557       -2.851950e-02
## 7106    23   5.2   -26  6.286325e+00  2.3205128205        1.011060e-01
## 7107    18  -6.6   -63  5.429075e+00  0.0177638454        4.227533e-02
## 7108   -10   7.1    27  4.165664e+00  0.9204545455        5.026028e-02
## 7109   -13  -1.1    45 -5.788618e-01  0.5208130081       -4.461781e-02
## 7110   -12   5.9   103  2.183932e-01  0.5103594080       -8.872881e-02
## 7111     8   7.3  -105  4.669725e+00 -1.4410912603        4.324345e-02
## 7112   -18   7.5    74 -2.076515e+00  1.4094575033       -8.085624e-02
## 7113    -2   3.1    -6  7.752345e-01 -0.3032289918        2.471873e-02
## 7114    -2   2.1     5  2.092339e+00 -0.0913242009        2.945896e-02
## 7115   -18   7.6    70 -1.066775e+00  1.0604099245       -2.243960e-02
## 7116     8  -1.4    10 -6.386162e-01  0.1708408469       -3.058696e-02
## 7117    10   1.7    56  3.587808e+00 -0.1360840417       -6.078447e-02
## 7118    -8   0.3     7 -1.058035e-02  0.8623507228        5.495163e-03
## 7119     0   2.3    32 -3.833657e+00 -0.3893988365       -5.059701e-02
## 7120   -21  -5.0    52 -1.054204e+01  0.1789795918       -9.879154e-02
## 7121    -2  -0.1    23 -5.303030e-01  0.8073593074        4.748010e-02
## 7122   -15  -8.5  -171 -3.239456e+00  1.0013873474       -2.897091e-02
## 7123     0   5.5   -22  4.218487e-01 -0.0336134454        1.444952e-02
## 7124    10   1.9   -31  5.570996e-01 -2.6523917565       -3.924446e-03
## 7125    -8   1.7   111  3.691983e-01  2.2099156118       -4.561642e-03
## 7126    10  11.4   143 -4.230769e-01 -2.6282051282        7.739693e-02
## 7127    -6   8.9    27  6.414072e-01 -1.0601748176        7.697598e-02
## 7128    15  -6.7    27  5.958333e+00  0.1666666667        7.542256e-02
## 7129    10  -6.8    15  5.868254e+00 -0.8682539683        5.822140e-02
## 7130     5  -1.0  -103  2.658864e+00  0.3482339023        1.200588e-01
## 7131    -5  -3.1    14 -2.385714e+00  1.5160714286       -1.353533e-02
## 7132     0  -5.2    -9 -1.036111e+00 -0.2527777778        1.405614e-02
## 7133    -5  -3.0    16 -6.469057e-01 -0.1315789474        3.448552e-02
## 7134    -5  -9.1  -163 -4.467391e+00 -0.3454106280       -7.494085e-02
## 7135    -8   4.1    22 -4.854545e+00  1.2712121212        2.597619e-03
## 7136     0   0.9   176 -4.789663e+00 -0.8395432692        1.649858e-02
## 7137    -5   3.7  -102 -2.125641e+00  2.0297435897       -1.803106e-02
## 7138     0   3.3    61 -3.801897e+00  0.1069898138       -1.359056e-01
## 7139     2   7.8    -3  4.657714e+00 -0.2702702703        1.808338e-02
## 7140    -5  -8.3  -167 -3.504762e+00 -0.8185185185       -4.366066e-02
## 7141    -2  -3.9  -150  1.419966e-01  1.7633390706       -7.652150e-02
## 7142     5  -1.9    17  8.425463e-01  1.6248479524       -2.362129e-02
## 7143    -5   1.5  -180 -2.333942e+00 -1.2940358199       -6.702017e-02
## 7144     5   1.8    68 -2.761300e+00  1.6458554971       -1.010163e-01
## 7145    -7  -3.2  -230 -2.488636e+00 -0.8093434343        1.590972e-02
## 7146     5  -1.7    -9 -1.464161e+00 -1.4914335664       -1.399358e-02
## 7147     3   3.4     9  3.338884e+00 -1.3891089109       -1.006512e-02
## 7148     5   0.7    23  4.431733e+00 -1.1726211957        5.426282e-02
```

141

```
## 7149    -3   0.2    -2 -7.763305e+00 -1.3578050379    -9.608573e-02
## 7150    -3   8.0    32  1.954798e+00  0.2979117103    -3.696865e-02
## 7151     8   4.9    34 -3.036813e+00  1.4964823298     3.924030e-02
## 7152     2   6.3   -63 -2.477718e+00 -2.6791443850    -5.347445e-02
## 7153    -2 -10.3     3  1.032951e+00 -0.7372162975    -3.127940e-03
## 7154    -9   6.7   -18  7.964347e-02  0.1375311482     8.835255e-02
## 7155   -18   4.4     9 -3.838739e+00  0.8106740281    -4.514512e-02
## 7156     3  -5.7  -152 -1.664151e+00 -1.6415094340    -1.131050e-02
## 7157    13  -6.0   -39  6.757361e+00 -0.2827153762     8.765086e-02
## 7158   -12   2.1    -5 -1.833624e+00  0.0862369338    -4.313751e-02
## 7159    -3  -2.5   -19 -8.862870e+00 -1.3870020429    -9.309285e-02
## 7160     0  -4.1     3 -1.782032e+00 -1.3691929393    -2.260578e-02
## 7161    -7  -8.2    58  1.620799e+00  1.0783953072     4.907866e-02
## 7162     7   4.9    30 -2.280810e+00  0.7046316360    -3.644623e-02
## 7163     8 -10.8    32 -7.955463e-01 -1.6156686281     5.008896e-02
## 7164     5   2.4    24  5.146970e+00 -0.6969696970     5.769858e-02
## 7165     0   2.2   -19  5.992714e+00 -0.7068478949     4.163766e-02
## 7166    -5   5.2    22 -3.536834e-01  0.6483146483     5.337523e-02
## 7167    10  -7.8    47  1.162854e+00 -0.5435729847     4.291925e-02
## 7168     5   3.3   -15  3.123225e+00  0.2976608187     5.971797e-02
## 7169     7   0.9     9 -1.566110e-02 -0.1346598203    -1.682150e-02
## 7170     5   3.3    22  6.361235e+00  1.0820951564     8.713690e-02
## 7171     2   3.7    33 -9.137008e-01 -0.6729305002    -6.604162e-02
## 7172     5  -7.5   -58  3.842105e+00  1.6842105263     1.367329e-01
## 7173    -5  -5.2    72 -1.228558e+00 -0.7877680312    -3.291983e-02
## 7174    -5  -3.3   -15 -6.391782e+00 -1.0978924457    -8.696808e-02
## 7175    10   8.4    13 -7.587302e-01 -0.2619047619     6.794343e-03
## 7176     3   4.7   -52  9.942463e-02  0.0193325662     3.332918e-02
## 7177    -5  -0.2   -32  2.227430e+00  0.0573986309     7.869940e-02
## 7178    12  -2.5   -21  6.528213e+00  2.2246603971     1.088407e-01
## 7179    -8   8.7    -6 -3.492383e+00  1.3147456166    -4.112371e-02
## 7180    -5  -5.1    40 -5.482883e+00 -1.7412319790    -1.279118e-02
## 7181   -35   5.3   120 -8.746294e+00 -0.2095596133    -3.763799e-02
## 7182     0   0.1   -14  4.849558e-01  1.4274336283    -3.464491e-02
## 7183   -11   1.9    -1 -3.611111e+00  0.1438271605     1.293078e-02
## 7184     6   3.8   -30  3.067417e+00 -1.6310130164     5.696991e-02
## 7185     8  -3.8    97  1.386861e-02 -0.0167883212     5.696265e-03
## 7186    -5  -2.9   -77 -1.738657e+00 -1.3838475499     2.455486e-02
## 7187     0  -2.6    39 -2.109759e+00 -1.0590489069    -2.110838e-02
## 7188    13  -7.9   -59  1.136317e+01  0.2985756990     1.359958e-01
## 7189     5  -1.2    31  1.330929e+00  0.9701135471    -4.526167e-02
## 7190   -10  -2.1   -99 -3.181109e+00 -0.9315342329     4.015242e-02
## 7191     7   2.2    -6 -1.918786e+00 -0.0838709677     3.937681e-02
## 7192     5   1.2    15  5.056351e+00  0.9928443649     7.204758e-02
## 7193    -2  -2.6    19  1.772858e+00 -0.5358653533     2.312581e-02
## 7194    -5   5.6    58 -3.263309e+00 -1.5869630974    -1.139965e-01
## 7195   -10   8.4    40 -4.342189e+00  0.8671689136    -1.118336e-01
## 7196    10  -2.5   -36 -1.616963e+00 -0.5827633379    -1.386660e-01
## 7197   -10   0.7    54 -4.677034e+00  0.6435745030    -7.347534e-02
## 7198     7  -2.2  -130 -6.759651e-01 -0.6907720783     1.076735e-01
## 7199    -5  -1.2   286  2.164050e-01 -1.9034999280    -1.016715e-02
## 7200     0   3.5    88 -7.638565e-01  0.9257102934     9.190333e-04
## 7201    18  -4.3   -67  5.181818e+00  0.1181818182    -3.219125e-03
## 7202   -21  -5.0    45 -1.043310e+01  0.1698694706    -7.515893e-02
## 7203    -3   2.5   -61 -2.289655e+00  0.8172413793     1.415950e-02
## 7204    -8   1.5  -122 -7.875313e+00 -0.0219298246    -2.525958e-02
## 7205    -3   4.1    60 -8.052350e-01  1.1420840466    -7.768857e-02
## 7206    -7   2.6  -167  3.659936e+00 -0.3589688507     6.476897e-02
```

```
## 7207    -6  -4.8    13  3.147451e+00   2.1384313725      9.237751e-02
## 7208    -5  -6.0    -7 -2.619026e+00   1.1746325963     -2.301268e-02
## 7209    -8  -0.7    86 -3.480769e+00  -1.1062271062     -6.999825e-02
## 7210    15  -1.9    16  3.071542e+00   0.6224165342      5.596003e-02
## 7211   -13  -0.1   -45  3.243242e+00   0.0075973409      1.458764e-01
## 7212    -8  -5.6    76 -5.761835e+00   2.6836192110     -7.999661e-02
## 7213    -2   4.7    32 -4.855172e+00  -1.1609195402     -5.464112e-02
## 7214    -3   3.3     7  1.745257e+00  -2.1722510618     -3.836239e-02
## 7215     5   4.5   -35  4.571977e+00   0.1289582946      7.743287e-03
## 7216     8   3.6     7  1.108813e+00   0.3031674208     -6.097844e-02
## 7217    20  -5.5     7  7.654955e+00   3.1657657658      1.780012e-01
## 7218   -15   3.3    28  1.588501e-01   0.4657574568     -1.681702e-02
## 7219    13  -1.7    30  1.103952e+00   0.2042158323     -2.802876e-02
## 7220    10 -10.2    27  1.234115e+00  -0.1390728477     -1.422266e-02
## 7221     5 -13.2   -28  4.027778e+00   1.1990740741      6.908683e-02
## 7222    -7   4.7   -32 -2.212962e+00  -0.0930871956      5.422474e-02
## 7223    -2  -1.0    52 -1.819941e+00   0.6632046077      3.971624e-02
## 7224   -10  -1.6   -28 -6.584826e+00  -1.5201264489     -9.250229e-02
## 7225   -10   3.5  -144 -3.030341e+00   0.0670037927     -4.739103e-02
## 7226   -12   5.9    90  1.925366e-01   0.5211587735     -9.005943e-02
## 7227     5  -4.9  -155 -1.146825e+00  -0.4309523810      5.777446e-02
## 7228    -3  -0.3    50 -5.619487e+00   0.6277995844     -4.959373e-02
## 7229     7  -1.7  -120  2.650224e+00  -0.6077710265      1.275449e-01
## 7230     8 -12.8   -28  6.707071e-01  -1.2313131313      5.012443e-02
## 7231    18  -2.2  -104  3.042633e+00  -1.3246073298      5.615862e-02
## 7232     0   1.8   -51 -1.227740e+00  -0.6527083946      7.216353e-02
## 7233     8  -6.1    56 -9.435897e-01   0.0742191142     -7.731699e-02
## 7234    -8  -0.9   -67  4.355763e+00   1.3411614292     -2.229619e-02
## 7235    -6   3.4    49 -6.294180e+00  -0.7952431571     -3.599361e-02
## 7236     3   7.6   -56  3.175661e+00  -0.3788359788     -1.273079e-02
## 7237   -10  -2.7   -73 -3.361262e+00  -0.6193055113     -3.138308e-02
## 7238     0   3.8    25  3.720433e+00   0.8373397436      7.209156e-02
## 7239     5  -4.6   -24 -7.566522e-01   0.2606031285      9.469859e-03
## 7240    23  -0.9  -104  3.069697e+00  -1.4742424242      5.306709e-02
## 7241   -11   9.0   138 -5.462231e+00  -0.6978516979     -1.018646e-02
## 7242    23   3.2   -90  1.227701e+01  -0.3392398562      1.514830e-01
## 7243   -16   3.8  -119 -5.884894e+00  -0.4751950948     -1.019448e-02
## 7244    -5   4.8   -69  1.255052e+00  -2.8537746806     -1.875462e-02
## 7245    18 -11.9   -23  6.144297e+00   1.5363395225      3.166135e-02
## 7246     5  -4.8    84 -1.507820e+00  -0.2057659695      2.047566e-02
## 7247    -8   4.4  -113  1.522582e+00  -0.9798382660      1.088603e-01
## 7248     2  -3.3    32 -3.815161e-01   1.6026467489     -5.973924e-02
## 7249     3  -1.9    21 -1.432429e+00   0.6805624689      5.141134e-02
## 7250    -8   0.0   -66 -5.308124e+00  -0.6385047537      6.137267e-02
## 7251     8   5.0   -34  2.769866e+00  -0.5931372549      1.554700e-02
## 7252   -10   7.9   -77 -5.268138e+00  -1.5069184742      2.354210e-02
## 7253    10   0.3    95  5.113063e+00   1.1869369369      9.201095e-02
## 7254    10  -3.7   -73  3.114996e+00  -1.1670271569      7.095183e-02
## 7255     0  -0.3   -24 -2.787408e+00  -1.7961603614      2.035336e-02
## 7256     0   3.5   -19 -4.617624e+00   0.1152950311     -2.095951e-02
## 7257     8  -6.4    50  6.242863e-02  -0.4935921837      1.599999e-03
## 7258    -7   0.6   -17 -2.790792e+00  -0.4878750000      2.191532e-02
## 7259    -5   6.6   -20 -4.846556e+00  -0.5221126550      6.638561e-02
## 7260    -7   2.6   -15 -3.970588e-01   1.0874183007     -5.147302e-02
## 7261    12   5.9    17  2.237884e+00  -0.5747418138     -1.157147e-02
## 7262    15  -2.0   -47  4.268184e-01  -0.6883087907      6.381067e-02
## 7263    -6   7.0   103 -3.118777e+00   0.7288961039      1.262247e-02
## 7264   -13  -3.6   -78 -8.158333e+00  -1.4750000000     -7.771917e-02
```

```
## 7265    20   -5.2     6   1.812247e+00   2.1428137652        5.025427e-02
## 7266    10   -4.6    79   8.264493e-01  -0.2393478261        2.668190e-02
## 7267    -2    4.8    15  -4.187955e+00   0.2967643910        2.292427e-03
## 7268    18   -3.2    60   8.993017e+00   3.6885474860        1.659920e-01
## 7269   -10    3.6   -18  -3.905259e+00   0.1114075203        2.905380e-02
## 7270    10   -5.0   -27   3.438430e+00   0.2272727273        7.148918e-02
## 7271     0   -9.2   -12  -1.699220e+00  -1.1766427427        1.780463e-02
## 7272     3    7.1   -53   1.743917e+00   0.4095048378        1.597798e-02
## 7273     8   -2.8    45   4.860075e+00   1.0236369865       -3.715045e-02
## 7274    -8    4.6    20  -3.300790e+00   0.0839249336       -1.111000e-01
## 7275     7    6.2    19   7.430051e-01   2.2068285468        2.472123e-02
## 7276   -20    9.4    15  -5.394199e+00  -1.6278180620       -5.933915e-02
## 7277   -15    3.6   -26  -5.935829e+00  -1.3677956031       -1.168191e-01
## 7278     7   -4.8   -24   3.493002e+00  -0.2156237545        3.537182e-02
## 7279     8    1.7     5   2.856256e+00  -0.1505135387       -2.730470e-02
## 7280    23   -6.5     4   4.748330e+00  -0.0309181226        2.721277e-02
## 7281   -13    8.5   108  -6.058280e+00   0.4324804549       -6.525443e-02
## 7282     2   -3.5   -52   2.434130e+00  -1.8454887048        2.724540e-02
## 7283   -10    1.3    -7  -3.037167e+00   0.2332193047       -1.224029e-02
## 7284    13   -3.5    20   3.754928e+00   2.1699864428       -3.784217e-03
## 7285     2    0.1     1   2.683731e+00  -0.0376945525       -1.314889e-02
## 7286    23    0.2   -99   8.511364e+00   1.4005681818        4.894568e-02
## 7287     0    2.4     5  -5.781421e+00  -1.6446277566       -7.594957e-02
## 7288     5    9.2    -2   7.500000e-01   0.0166666667       -2.637424e-02
## 7289     8   -1.3    32   4.235868e+00  -0.0610140135        5.045700e-02
## 7290     0    2.3   -67   2.881527e+00   0.1763316715        7.805285e-02
## 7291     0   -1.8   -43  -8.250000e-01   0.2333333333       -6.007857e-03
## 7292    -8   -5.1   -96   5.624649e-02   0.1582283559       -3.017765e-02
## 7293    -5    3.6     1  -5.714286e+00   1.8269617706       -1.421633e-01
## 7294     3   -1.9   -20   2.900000e-01  -1.1550000000        9.549189e-03
## 7295    -5    2.3    20  -2.606371e+00   0.1697093890       -7.215054e-02
## 7296   -15    8.7    12  -1.048321e+00  -0.6910163339       -1.786277e-03
## 7297    12   -9.3    23   9.493575e-01   0.3692365835        9.254248e-02
## 7298    -8   -2.4    16  -4.488924e-01  -0.6492879747       -7.249125e-02
## 7299     7   -6.6   101   4.733333e+00   0.6523809524       -5.896524e-03
## 7300   -13   -1.4    16   1.746851e+00   2.0919847328        5.117616e-02
## 7301    -9   -7.2    12   3.606725e+00   2.4459064327        1.421056e-01
## 7302     0    0.6  -106   3.005848e-01  -0.1216374269        2.732547e-02
## 7303     0   -2.3   326  -7.908445e-01   2.3610102605       -5.297987e-02
## 7304     8   -4.6   -19   2.983301e+00  -0.1908317277       -1.847100e-02
## 7305    -8   -0.1    49  -1.380222e+00  -2.3555675094       -2.951245e-03
## 7306    -8    6.7   -50   2.818740e-01  -0.1764976959        6.211695e-02
## 7307    13    0.3  -106   4.274704e+00   0.1301054018       -1.431030e-02
## 7308    20    4.7    96   1.313955e+01  -0.0131818182        8.674335e-02
## 7309    -2   10.4   -25  -2.751972e+00  -0.3616507712        2.933703e-02
## 7310     0   -2.7    52   6.462842e-01  -0.6539606909        1.859632e-02
## 7311    13    2.2     3   5.203762e+00   0.3291536050       -3.545766e-02
## 7312    10    0.0    50   3.049242e+00  -0.3733766234        6.130254e-02
## 7313    -8    5.7   -35   9.076683e-01  -0.7114212166       -2.101307e-02
## 7314    -2   -8.5   -10  -1.098710e+00  -0.4532258065       -1.753093e-02
## 7315     5    6.6   127  -2.446526e+00  -1.3183002481       -3.854241e-02
## 7316    -5    4.1   -59  -7.445799e-01  -1.4898373984        5.003522e-02
## 7317    23    7.0   -91   9.634134e+00  -1.0355446960        7.357914e-02
## 7318     7   -1.3   -20   2.441505e+00   1.7011161637        2.162473e-02
## 7319    -5    9.7    72  -6.310924e+00  -0.7613445378       -5.627578e-02
## 7320   -15   -5.9    -7  -6.459330e+00  -1.0944976077       -7.444730e-02
## 7321    10    6.4    -5  -1.954781e+00  -1.3604837192       -2.576887e-02
## 7322     8    0.0   -27   1.066448e-01  -1.2395406071       -5.050756e-02
```

144

```
## 7323   -18    7.9    16  -5.315188e+00  -1.0771249228       6.031098e-02
## 7324    17    1.0   -93   5.992857e+00  -0.1642857143       1.025526e-01
## 7325     3   -2.9    14   4.515220e+00   2.1645193887       3.685419e-04
## 7326     5    2.2    57  -4.665512e+00   1.8909867173      -2.850873e-02
## 7327     3    3.1   -98  -8.443286e-01   0.4248776335       3.231642e-02
## 7328     5   13.3   100  -4.080357e+00  -2.8214285714      -4.565835e-02
## 7329    10    9.1   -20   3.766401e+00  -0.3240545408       1.045250e-01
## 7330     5   -5.0   -11   1.996298e-02   0.1817821259       4.167357e-02
## 7331   -10   -7.8   -95  -2.919048e+00  -0.6809523810      -3.503126e-02
## 7332     3   -7.1     9   4.470764e+00   1.0087016575       4.381264e-02
## 7333    15   11.3    74   7.537294e+00  -1.2303630363       7.794741e-02
## 7334     2    7.8    24  -3.403509e+00  -2.6691729323       3.515609e-03
## 7335     5    1.8    19  -3.327985e+00   2.0043142869       2.274308e-02
## 7336    23    3.1   -56   1.178603e+01  -0.3440476190       1.334948e-01
## 7337    15   -2.9    35   1.858037e+00   1.6675693974      -5.436757e-02
## 7338    10   -5.7    30   5.392000e+00  -0.7973333333       5.132529e-02
## 7339     5    2.1    14   1.731061e+00  -0.5503246753       1.115924e-01
## 7340     5   -0.9    27  -5.265390e-01  -1.6954856361       2.830113e-02
## 7341     0   -7.5    -6   1.411676e+00  -1.1720881000      -7.656934e-03
## 7342   -17    9.3    40  -5.533333e+00   1.4698245614      -1.627045e-01
## 7343    20    2.2    26  -2.093143e+00  -0.7464094621      -8.707777e-02
## 7344     5   -0.8   -39   2.061391e+00   1.6736694678       6.234100e-02
## 7345    10    1.7   120  -2.390712e+00  -0.9003095975       2.910443e-02
## 7346     0    3.6    -6   3.777366e+00  -1.6344617412       1.091107e-01
## 7347    -2   -6.2  -148  -1.475124e+00  -0.4520046825       4.123837e-02
## 7348    17   -3.7    32   6.509774e+00  -0.2991876111       1.803487e-01
## 7349   -26    4.2    45  -1.010107e+01   1.2842409241      -9.298989e-02
## 7350    10   -0.9    63   3.281743e+00  -0.2964896255       7.474119e-02
## 7351   -13    5.6    13  -6.130763e+00  -0.2592771084      -2.888073e-02
## 7352    10   -2.8   -28   1.577465e+00   1.3309859155      -7.299160e-02
## 7353   -10   -1.2    77  -2.395909e+00  -3.0537313433      -4.798536e-03
## 7354     0   -3.3    32  -3.731279e+00   0.5243902439      -4.097429e-02
## 7355    12   -2.4     3   1.379513e+00  -1.3294481822      -1.691762e-02
## 7356    -8    6.4    13  -2.472258e+00   0.0167741935      -1.494544e-02
## 7357    -2    2.5   -76  -4.706250e+00  -0.0312500000      -3.826086e-02
## 7358    -2    4.5    -7   1.032258e+00  -0.4193548387      -3.636131e-02
## 7359    -5   -3.1   -18  -4.666919e+00  -0.1138825901      -5.967948e-02
## 7360     8    0.9   -83   4.197727e+00   0.5283333333       4.739592e-02
## 7361   -10    1.1   -26  -1.781628e+00  -0.9259557704      -3.611396e-02
## 7362    -3   -2.2   -24   1.382801e+00  -1.0642795513       7.200637e-03
## 7363   -16   -0.8    38  -4.971906e+00  -0.0758663366      -8.854660e-02
## 7364    -3    3.5  -137   6.877104e-01  -1.0281986532      -3.993659e-02
## 7365    -2   -1.7    19   2.864950e+00   0.5769346582       4.095248e-02
## 7366    -3    4.0     9  -2.518961e+00  -1.2803140097       1.331611e-02
## 7367     0    2.8    -7   2.581346e+00  -0.3566273865       2.561708e-02
## 7368     0    3.6   -75   2.004494e+00  -2.4033707865       3.011751e-02
## 7369    -5    4.2  -100  -3.497027e+00  -0.3106218865      -3.816866e-02
## 7370   -10   -1.6    75   2.329545e+00  -0.6051136364       2.943673e-02
## 7371   -10   -5.6    83  -4.992390e-01   2.6177574835      -6.136249e-02
## 7372    11   -6.0    53   1.248980e+00   1.3363945578      -1.365733e-01
## 7373    18    8.4   100   9.042109e+00   0.5639920424       3.765953e-03
## 7374    10   -5.1  -104   6.697059e+00   2.1527450980       4.479282e-02
## 7375   -10   -5.1   -19   4.162960e+00   0.9661928651      -1.596387e-02
## 7376    -5   -0.6  -106   3.756515e+00  -0.3449467662       7.140289e-02
## 7377   -13    3.6    39  -5.098930e+00  -1.9819518717      -8.585280e-02
## 7378     5   -3.0   -58   8.181818e+00  -1.0606060606       4.754305e-03
## 7379    -5   -4.4    15  -2.999458e+00  -2.2168021680      -5.321456e-02
## 7380    25    9.3    81   1.335541e+01   0.0683982684       1.025029e-01
```

145

```
## 7381    10  -8.5   85 -1.259376e+00  0.9349593496          5.025441e-02
## 7382   -15  -1.5   73 -6.895791e+00 -1.3955939326         -1.131037e-02
## 7383    -3   4.1   41 -1.415729e+00 -0.5703564728         -3.790562e-02
## 7384    -8   6.6   33 -7.385118e+00 -1.4567621921         -5.053037e-03
## 7385    -8   2.4  -39 -6.136307e+00 -1.7931334203         -2.730681e-02
## 7386    -5  -7.2 -132 -7.040493e+00  0.0060957910         -3.450098e-02
## 7387    21  -8.5  -25  4.224393e+00  0.9551101073         -2.216184e-02
## 7388    23   4.7   33  1.451687e+01  0.1798669412          1.138815e-01
## 7389    -5   0.9  -53  2.032486e-01 -1.5891872453          4.478965e-02
## 7390     3   0.7  -63  6.666431e+00 -1.1017254902          3.454176e-02
## 7391     0   2.1  -27  1.119347e+00  0.0004662005          1.972722e-02
## 7392    10  -0.7   39  4.928732e-01 -1.0478244561          5.395934e-02
## 7393     7  -6.4   -8  1.595833e+00  1.2963541667          3.231994e-02
## 7394     0  -8.9  124 -2.570130e+00  0.5540540541         -1.411112e-01
## 7395    -5  -2.0  135 -5.190880e+00  0.2467302934         -1.350218e-01
## 7396    -2   2.1  -14  7.188492e+00  1.7274338855          7.140757e-02
## 7397    15  -7.0  -17  6.031607e+00  0.4364617044          2.564107e-02
## 7398    -5   7.8  -46  3.267319e+00  0.6144578313         -2.244848e-02
## 7399    11  -5.1    8  5.657575e+00  2.0269455436         -1.306128e-02
## 7400     5   2.3   70 -4.681735e+00  1.8853142344         -2.767057e-02
## 7401    12   1.1   26  8.035030e-01 -1.5740650463         -1.987897e-03
## 7402    -5  -4.8   35 -3.343868e+00 -0.9065792089         -9.022969e-02
## 7403    -5   2.2  -40  3.812176e+00 -0.2373862696          1.089954e-01
## 7404    -2   6.9  -80  2.286342e+00  1.2973210365          6.218019e-03
## 7405    -2  -1.4   -5  6.362405e+00  0.1411318150          2.847844e-02
## 7406    10   9.1  -14  3.775278e+00 -0.3415156828          1.070694e-01
## 7407     5  -9.2  109 -4.759250e+00  1.4440227704         -8.524662e-02
## 7408    -5  -1.7   10 -5.795121e+00  1.5962281197         -5.363977e-02
## 7409    12  -3.4   89  2.214286e-01 -0.9097402597          6.679499e-02
## 7410    11  -5.8 -103  5.303818e+00 -0.3285861713         -2.284451e-02
## 7411    -5   9.6  -65  1.236406e+00  0.7649769585          1.394103e-02
## 7412   -10  -8.0   33 -2.316540e+00 -0.8733255679          3.012514e-02
## 7413    -2  -3.4  126  7.487984e+00  2.6149569584          5.107611e-02
## 7414    -8  -6.1  -34 -2.045977e+00 -0.4086845466          9.738560e-02
## 7415    -2  -3.4   82  1.147950e-01  2.3448128342         -8.799020e-02
## 7416   -15  -2.9  -64  3.080123e+00  2.3177195686          7.509592e-02
## 7417   -10  -1.7   16 -1.395302e+00 -0.0427286357         -9.980984e-03
## 7418     8  -5.8   47  2.359649e+00 -1.7926065163          6.777635e-03
## 7419     5   1.4   28  3.688963e+00 -0.2909698997          4.795699e-02
## 7420     5   3.7  156  1.702703e+00 -2.0968468468          2.168240e-02
## 7421     0   0.6    2  2.529778e+00  0.6604444444          7.296923e-03
## 7422     8  -2.8    7 -1.579592e+00 -0.9308390023         -3.197864e-02
## 7423    -2  -0.5  -68 -1.242273e+00 -1.6409563410          3.707520e-04
## 7424    -7   7.6   33 -1.819888e+00 -1.2340379638         -5.326899e-02
## 7425   -15   3.6   22 -6.326179e+00  1.4402490726         -1.761702e-01
## 7426     6   0.7  -11  3.276632e+00  1.1675168182          1.031227e-01
## 7427     0   1.3 -105  1.579954e+00  0.3788018433          4.477399e-03
## 7428     3   4.8   -7 -4.025098e+00 -3.7398515932         -4.351459e-02
## 7429    -2   2.8   48  3.343217e+00 -0.0328902522         -3.530889e-02
## 7430    13   2.0 -119  5.237179e+00 -0.2339743590          9.630441e-02
## 7431    11   6.7  -59 -2.253247e+00 -0.5610389610         -9.820961e-02
## 7432     3  -1.1   65 -1.128313e+00 -0.3528620822         -5.031121e-02
## 7433     2   2.2  154 -7.357992e+00 -0.4673202614         -3.762628e-02
## 7434     3   1.1  -18  1.237176e-01 -0.7655105032          1.878911e-02
## 7435    -8  -5.1  -17 -1.135628e+00  0.5328947368         -1.981547e-02
## 7436   -20  -8.7   30 -1.204503e+01  1.1041349569         -1.302367e-01
## 7437   -18   1.8   -7 -5.529311e+00 -2.3277706461         -1.666292e-01
## 7438    11  -5.9   50  1.316008e+00  1.3324460633         -1.368217e-01
```

146

```
## 7439   -10    5.6    40  -2.253115e+00   0.8833572969      -3.910348e-02
## 7440     0   10.3    19  -2.666667e-01   0.6215686275      -5.450946e-02
## 7441   -15   -6.8    -6  -2.232490e+00   0.5693430657       2.764600e-03
## 7442    -5   -0.5    71  -4.202367e+00   0.1209203176      -8.359496e-02
## 7443     8    5.5   -44   1.855331e+00  -1.3366977226      -9.946174e-05
## 7444    -3   -0.8   -48  -1.691737e+00  -2.0322779923      -6.264304e-04
## 7445   -15    1.3   -89  -5.734757e+00   1.9857656468      -6.477714e-02
## 7446     5  -10.1    57   2.938672e+00  -0.4321789322       6.497281e-02
## 7447    -3   -3.6    17  -2.563793e+00   0.9778455006      -6.259880e-02
## 7448     2   -2.1   -39  -9.085431e-01   0.4049982276      -7.811597e-03
## 7449   -15    9.6    -3  -9.694083e-01   2.2006472492      -1.193492e-01
## 7450     0   -4.5    14  -4.752252e-01   0.6446267696       8.296481e-02
## 7451   -13    3.8   -25  -3.856000e+00  -0.3538373206      -8.229563e-03
## 7452     7    4.7   -73   2.043213e+00  -1.2586654451       2.610604e-02
## 7453    10   -2.8    39  -6.017817e-01   0.4247440500      -4.932017e-02
## 7454    -1    0.7   -75   4.602659e-01  -0.7711811998       3.115454e-02
## 7455    -8    3.1    -6  -2.049894e+00   1.7900211905      -7.186025e-03
## 7456     3    9.4   -53   5.983511e+00   0.3239361702       9.094163e-02
## 7457    -5    2.2   -15  -2.687912e+00   0.1560439560      -6.318218e-02
## 7458   -15   -1.5    96  -4.990347e+00   1.0896304468      -9.048284e-02
## 7459    -2    0.4   -52   1.466129e+00  -0.5641935484       9.501558e-02
## 7460     0    3.1   -72  -4.593878e+00  -2.8693877551      -3.168649e-02
## 7461    21   -5.3   -69   1.077775e+01  -0.8032552827       1.136007e-01
## 7462    -2   -6.0     1   4.608196e+00   1.3655672164       7.592563e-03
## 7463   -18    5.8    -7  -4.623496e+00  -0.6724699222      -1.787214e-02
## 7464    -3    3.9    28  -2.149856e+00   0.4485611511      -1.117164e-02
## 7465    -2    1.7     3   1.922302e+00   0.4738551389       4.277761e-02
## 7466    12   -2.1    18   2.108971e+00   0.0173889781       5.128732e-02
## 7467     5    4.4   -44  -2.669643e+00  -2.0133928571      -6.997023e-03
## 7468     0    1.0    -6  -2.614363e+00  -0.4128815291      -2.185546e-02
## 7469    -1    7.2   -72  -3.418301e+00  -1.3188608777       4.657052e-02
## 7470    15    0.3   -45   4.143429e+00   1.0147772138       3.036387e-02
## 7471    -5   -3.5   -19  -4.321251e+00  -0.9285319435       2.175020e-04
## 7472    -2   -1.2    34   1.165471e+00   0.1751820790       6.053516e-02
## 7473   -26    4.2    42  -1.012181e+01   1.3801497223      -8.991580e-02
## 7474   -15   -1.0   -21  -3.291185e-01   1.0986483540       4.218475e-02
## 7475   -15   -0.7   -37  -5.416772e+00  -0.0687675546      -5.362939e-02
## 7476    20    5.9  -111   4.190131e+00  -0.6128095110       1.271963e-02
## 7477    -2    5.6   -28   4.838722e+00   0.7680451128       1.022477e-01
## 7478   -10    1.8     4  -5.750020e-01  -0.1923566372       1.742389e-02
## 7479     3    1.1     1   5.532224e+00  -0.4566277992       6.496052e-02
## 7480    -7    4.8   -24  -2.074130e+00  -0.1177518800       4.210202e-02
## 7481     2    5.1     9   1.313715e+00  -1.6817708333       3.131229e-02
## 7482   -15    0.1     9  -4.578261e+00  -1.9978260870      -1.337346e-01
## 7483    -8   -1.2   179  -2.697270e+00   0.2175351530      -1.302248e-01
## 7484     0   -4.6    43   2.510394e+00  -1.2502771619       1.417748e-02
## 7485     2    3.2   -28  -1.323552e+00  -2.3935837246      -4.839648e-02
## 7486    13   -4.4     9   5.851058e+00   0.2153018737       1.722741e-02
## 7487     3   -4.1    47  -9.572785e-01   0.9767932489      -1.893349e-02
## 7488   -17   -8.0    60   2.900000e+00   1.9500000000      -3.513162e-02
## 7489     5    2.5  -134   2.544000e+00   0.3840000000       9.441938e-02
## 7490   -10    3.5   -52   7.800221e-01  -1.1987739926       5.107539e-02
## 7491     2   -1.0    -1  -2.091825e+00  -0.1724524076      -7.882603e-02
## 7492     0   -0.4   -39   1.362994e+00   0.1160908301       4.798170e-02
## 7493    -6    0.3    16  -2.713051e+00  -0.1431602106       1.663976e-04
## 7494    23   -0.6     1   8.225612e-01  -1.7647531112      -1.603773e-02
## 7495     5   -2.0   -73   2.644841e+00   1.3730158730      -1.533865e-04
## 7496    -5    3.0   -60  -6.683625e+00  -2.9898829311      -3.388905e-02
```

147

```
## 7497     2   1.0  -25 -2.091663e+00 -1.1959426027  -5.340793e-02
## 7498    -2   3.4  -35 -9.681685e-01  1.5981858054   4.687060e-02
## 7499     0  -1.4   31  2.989194e+00  0.9651114089   1.651623e-02
## 7500     0   0.9  -15 -2.622882e+00 -0.4517440702  -1.747717e-02
## 7501    10  -3.3  -14 -1.429032e+00 -1.1582700713  -1.944264e-02
## 7502     5  -2.1   22  1.411615e+00  0.1418027828  -1.731248e-02
## 7503    -3  11.2  -50 -3.611971e-01  0.3039215686  -1.011609e-02
## 7504     0  -7.3   27 -4.871795e-01  1.3846153846   1.418730e-02
## 7505     0   6.0  -50  3.527338e+00 -1.7591051454   1.320472e-01
## 7506   -10   3.3   -4 -1.005303e+01 -1.4696969697  -3.521617e-02
## 7507     8   1.3  -66  4.397403e+00  0.6259740260   2.683796e-03
## 7508    -5  -4.0   38  4.412877e+00  1.2507238971   4.658287e-02
## 7509     8  -3.7   25  8.363636e-01  0.9212121212  -6.889802e-02
## 7510     0  -1.2   14 -2.716002e+00 -0.3931917230   1.784087e-02
## 7511   -10  -4.9   63 -1.040665e+00  0.3148337596   1.804048e-02
## 7512     3 -11.1   50  5.505479e+00  1.9006849315   1.194346e-01
## 7513     9  -5.6    6 -1.192308e+00 -0.2596153846  -5.043734e-02
## 7514    -5   6.1   13 -5.832035e+00 -1.5246753247  -4.527554e-02
## 7515     0   4.0   -1 -3.142742e+00  0.0803763441  -1.380687e-02
## 7516    -5  -5.1   35 -6.500000e-01  3.0166666667   1.618788e-02
## 7517    15   3.6 -100  1.530179e+00 -1.2097186701   6.610139e-02
## 7518    13  -1.9  -47  2.179405e+00 -3.1578439260   3.226319e-02
## 7519    -3   0.0  -29 -2.495758e+00  1.3381818182  -8.906630e-02
## 7520   -20  -5.6  138  1.171154e+00  0.8753846154  -4.304747e-03
## 7521   -13  -9.8  109 -3.170868e+00 -1.2593370682  -3.967155e-02
## 7522    -3  -1.4   39 -6.339011e+00  0.1052197802  -4.037820e-02
## 7523     3 -10.8  -68 -1.372704e-01  1.0677463954   3.410199e-02
## 7524    10  -1.0  -43  4.996554e+00  1.8396970261   4.166365e-02
## 7525    -2  -2.1  -44 -1.520572e+00 -1.3158542039  -1.940486e-02
## 7526     5  -1.5   -1  4.067923e+00  0.2243340084   2.022501e-02
## 7527   -16   4.2  -41 -1.599011e+00  0.2381783792   9.351001e-02
## 7528     0  -3.7 -104  4.356046e+00  0.9932318105  -2.170666e-02
## 7529    -2   2.4  -42  7.731936e-01  0.5000000000   4.029526e-02
## 7530     7  -2.7   83  5.226242e+00  2.1434176112   7.890508e-02
## 7531     5   4.1  -33  1.880117e+00  0.3333333333   4.933541e-02
## 7532    15  -4.5  -43  1.683305e+00  0.5790254028  -3.818741e-02
## 7533    -5  -6.8   24  1.732801e+00 -0.2930851064  -4.430337e-02
## 7534    10   3.6  -10  4.795789e+00  0.5142048050   1.646705e-02
## 7535     0   4.0  -10 -1.967071e+00 -0.8525163094   1.310166e-02
## 7536     2  -5.4  -70  1.050833e+01  0.1152777778   1.695888e-01
## 7537   -26   0.2  109 -1.245990e+01 -0.5965798442  -9.151657e-02
## 7538     5   4.6   33  4.637855e+00  0.1728357399   3.055118e-02
## 7539    -5  -2.3  -14 -2.787359e+00 -0.6213446926   5.073000e-02
## 7540     0 -13.1   20  2.378033e-01 -0.4156225007  -2.748537e-02
## 7541     9  -2.7   22 -2.182379e+00 -1.0082772166  -8.850087e-02
## 7542    23   0.1  -24  9.111226e+00 -0.7559808612   8.950394e-02
## 7543   -10  10.5    5 -1.450393e+00  1.4220126978  -2.013793e-02
## 7544   -21   2.4   41 -9.779508e+00  1.6270733012  -8.129542e-02
## 7545    -8  -3.4  -13 -8.324890e+00 -0.0885493272  -1.785928e-02
## 7546    -3   9.1    9 -2.160916e+00 -0.1031914894  -3.373989e-02
## 7547    -8   2.2  -47  3.236769e-01  0.4724156000   2.072973e-02
## 7548    -6   1.4  -21 -2.151612e+00 -1.1095722515  -8.112269e-02
## 7549    -2   1.5   74  1.621307e+00 -0.9353219697  -8.220066e-03
## 7550    10   7.2  -14  1.759842e+00 -1.8663524016  -3.746079e-02
## 7551     5  -1.1  109  3.608385e+00 -0.6409455843  -2.061568e-02
## 7552    18  -8.9  -16  4.622053e+00  1.2040335254   6.751519e-02
## 7553     8  12.7  -74  2.562427e+00 -1.3838559814   6.381121e-02
## 7554    16  -4.2  -32 -3.549216e+00 -0.0742595819  -3.530919e-02
```

```
## 7555    18   -5.6     3  1.378016e+00  1.9219240708    -9.306905e-02
## 7556    23    2.5   -16  2.718714e+00  0.0668258944     4.511567e-02
## 7557    13    5.1   -51  5.636119e+00 -1.9880053908     1.418294e-01
## 7558     2    6.7    37 -4.216060e+00  0.6508481742     1.426226e-02
## 7559     5   -3.5   -30  2.093506e+00 -0.6400820232    -2.964584e-02
## 7560   -12   -3.0    30 -6.002914e+00 -0.2508325008    -1.910518e-02
## 7561     0    1.7   -27  5.354628e-01  0.2864688129     1.046045e-02
## 7562     0    1.1     8  1.314893e+00  0.1534491979    -4.062022e-02
## 7563     8   -3.8   -15  7.064397e+00 -1.2871074017     3.960939e-02
## 7564     5    1.9    29  4.332569e+00 -0.7540055249     5.685853e-02
## 7565     2   -6.9     9 -1.711071e+00  0.4933601470    -5.466165e-02
## 7566    -2   -5.1    -5  3.139429e+00  0.9257142857     7.278362e-02
## 7567     2    3.6    49 -1.062754e+00 -0.6581764489    -7.235291e-02
## 7568   -12   -5.8   -12 -2.211291e+00  0.5693046358     7.101656e-03
## 7569    -5    3.1   -31  1.012522e+00 -1.5270125224     2.508902e-02
## 7570   -10   -1.3   128  1.648980e+00  2.5297619048    -4.695572e-02
## 7571   -18    6.1   151 -2.884043e+00 -1.9659574468    -7.321957e-02
## 7572     6   -7.4    62 -2.299067e+00 -0.7892537894    -1.303676e-01
## 7573   -13    4.1   -17 -1.147928e+00 -1.6193992281     1.125795e-01
## 7574    16    3.1   -31 -2.442408e-01 -0.4839097448     5.949032e-02
## 7575     8  -11.5    20  6.368889e+00  1.3022222222    -5.838216e-02
## 7576    -2    4.6    -5  9.645545e-01 -0.5070740518     5.461854e-02
## 7577     3   -1.1    80 -9.574178e-01  0.6539270687    -3.085117e-02
## 7578   -15    3.7    28  3.406194e-01  1.0516683317    -6.452033e-02
## 7579   -13    8.5    12 -1.050331e+01 -0.4022694745    -6.717424e-02
## 7580   -12    1.3   -22 -6.524653e+00 -0.1090225564    -7.023358e-02
## 7581     0    1.1    34 -4.071035e+00 -0.1122474747    -9.705324e-02
## 7582     0   -0.7   -65 -1.430888e+00  0.5783783784     7.059991e-02
## 7583     7    3.5    -2  3.376706e+00 -0.5682261209     5.250150e-02
## 7584    18   -4.4    14  8.025407e+00  3.4690040650    -2.854139e-02
## 7585    -2    3.7    47 -3.749300e+00 -1.3816526611    -3.884494e-02
## 7586    -3   -4.7    65  2.855997e+00  2.0323057432    -7.846167e-02
## 7587     0   -1.9    36 -2.351011e-01 -0.1997448515     9.531374e-03
## 7588    -2   -2.2     6  6.788304e+00  0.7683982684     7.833534e-03
## 7589     0    1.3   -36 -1.553676e+00 -1.5810631037     3.410553e-02
## 7590    -3    0.9     8  7.818150e-01 -0.0581531372    -4.251408e-02
## 7591    -9   -0.8   -70 -7.926173e-01 -1.2925458442     1.380351e-01
## 7592    15   -9.0    24  8.334713e+00  1.2312241277    -4.888582e-02
## 7593     6   -2.3   -25  5.394612e+00 -0.9904352404     6.233950e-02
## 7594    -3    0.9     3 -1.706464e+00 -0.9172073909    -1.787806e-03
## 7595     3   -0.5   -58  4.007572e+00 -1.2075374290     1.178457e-01
## 7596   -11    4.5    -9 -1.119052e+01 -1.5302811245    -1.559650e-02
## 7597     2   -2.9    -1 -3.211039e+00 -0.6388827002    -3.289640e-03
## 7598    10   -5.5    23  6.055952e+00  1.7297619048    -1.392406e-02
## 7599    11    1.8   -77  6.740066e+00 -2.1334850993     2.260208e-02
## 7600   -18    3.3    -8 -4.684992e+00 -1.3365921788    -1.822710e-02
## 7601   -16    1.6    25 -1.228624e+01 -0.5441314554    -9.938162e-02
## 7602     3   -3.5    65 -1.509483e+00  0.6189655172     3.605656e-02
## 7603     5   -6.6     1 -1.601010e+00 -0.1494949495    -1.423876e-02
## 7604   -18   10.9    83 -5.893878e+00 -1.8938775510    -6.334242e-02
## 7605    10    8.2    15  8.525531e+00  0.5396241830     1.025797e-01
## 7606     5    1.3   -38  3.373323e+00  1.5756659739     9.038152e-02
## 7607   -18    7.9    14 -5.463780e+00 -1.1555865922     4.945406e-02
## 7608    10    1.8   103  2.515838e+00 -0.0311890838     9.787399e-03
## 7609    -6   -0.7     3 -3.199306e+00 -1.1949492887    -9.025967e-02
## 7610   -15    8.1    -6 -4.314392e+00  0.7472941176     2.934561e-02
## 7611    -5    5.7   -14  1.708217e+00 -0.8681605976    -2.304481e-02
## 7612    -2   -1.3  -122  1.544308e+00 -1.2150537634     7.021728e-02
```

149

```
## 7613    -2    4.6    49   6.115626e+00  -0.6810666046    3.363669e-03
## 7614     3   -2.3    34   1.129300e+00   0.6165790731   -4.262526e-03
## 7615    -8    5.6   -89  -2.383768e+00  -0.7503502382   -6.001630e-03
## 7616     7    1.1    12  -2.102002e+00  -0.1694238169   -1.098752e-01
## 7617    -7   -8.5   -41  -1.566099e+00   0.8893714038   -6.613566e-02
## 7618    -2   -3.5    14   5.506301e-01  -0.4323293711    3.004458e-02
## 7619    -7    6.2    -9  -5.074289e+00  -1.4285851166   -3.989183e-03
## 7620    -3    3.1    31  -2.843352e+00  -0.3247455471   -9.475568e-02
## 7621   -13   -0.5    40  -6.708173e+00   0.8391099700    9.989160e-03
## 7622    16   -6.5   -10   7.614789e+00   0.7207073113    5.744995e-02
## 7623    21    1.1    11   1.044032e+01  -0.0782817457    6.956682e-02
## 7624     8  -10.1    98   3.256441e+00   1.1519536020   -3.122279e-02
## 7625     0    3.0    53  -1.055878e+00  -0.8711382957   -3.630974e-02
## 7626     0    5.4    -3   3.403624e+00  -0.8052595562    2.889592e-02
## 7627    20   -7.3   -31   5.302542e+00  -0.8534839925    5.990758e-02
## 7628     7    2.2   -21   1.226912e+00  -0.7117235023    5.565722e-02
## 7629     2   -8.0    33  -2.750758e+00  -1.2865168539   -9.726665e-02
## 7630    -2   -6.0  -156   1.864304e+00   0.1514435696    8.864678e-02
## 7631     7   -5.0   -97  -4.285895e+00  -1.4268771930    1.082549e-01
## 7632   -11    4.1    33  -4.504049e+00  -0.1370280787   -6.888169e-02
## 7633    -3    2.9    14  -2.639517e+00  -0.3601055807   -9.048071e-02
## 7634     0    3.1    21  -2.182957e+00  -0.5855263158    3.608819e-02
## 7635     7   -4.9   -23   3.521299e+00  -0.1769926868    3.446274e-02
## 7636     8    3.6   -79   1.244657e+00  -2.6177396093    7.147940e-02
## 7637   -10   -5.6   -12  -1.780696e+00   0.7216902265   -1.466885e-02
## 7638    10   -0.7    40   3.275994e+00   1.7457836918   -4.259920e-02
## 7639   -10    7.0    20   3.150701e+00   1.2630024325    1.832930e-03
## 7640     3    3.3     8  -1.335289e+00   2.0299275340   -4.714877e-02
## 7641     3   -4.9    26   3.559170e+00   1.6792517430   -4.861813e-02
## 7642    16   -3.3   -17   3.637789e+00   0.1182910231    5.889479e-02
## 7643    -5    5.4    34  -1.076690e+00   1.1946174608   -7.497851e-02
## 7644    18    2.0    21   1.113173e+01  -0.1321548822    2.531000e-02
## 7645    13   -5.8   -37   1.276747e+00  -1.7751546825    6.199922e-02
## 7646     0   -4.9    -2  -4.357143e+00  -0.0515873016   -3.423667e-02
## 7647     6    1.7     4   1.264184e-01  -0.0793950532   -1.006727e-02
## 7648    -8   -3.4   -15  -8.348285e+00  -0.0934203789   -2.335925e-02
## 7649   -11   -0.8    -3  -4.374612e+00  -0.8116904834    2.421212e-02
## 7650   -21   -1.1   -19  -1.281601e+01  -0.7975872282   -2.239043e-02
## 7651   -28   -3.1    55  -3.741379e+00  -0.7988505747   -1.360815e-01
## 7652    -3   -8.4   -90  -3.315623e+00   0.3012861058   -3.387829e-02
## 7653    -5   -3.4   -12   3.737631e+00  -1.1755371575    1.959872e-02
## 7654   -20   -1.7    21  -2.152982e+00   1.4036559784    4.841407e-02
## 7655     5   -1.7    21   4.082178e+00   0.1720595788    4.486200e-02
## 7656    -3    1.1   -32  -1.080286e-01   0.2650273224    1.205045e-02
## 7657     0  -11.2    14   3.607477e+00  -0.0122663551    4.832486e-02
## 7658     2   -9.7    17   7.442827e-01  -1.2874220374    1.232293e-01
## 7659     7    1.2    -4   2.097502e+00   0.0682917002    1.084998e-02
## 7660    -3   -3.0    13  -2.041520e+00  -0.5426900585   -1.327387e-01
## 7661     0   -3.7    30   9.452233e-01   3.3113166643    2.259911e-02
## 7662     0   -0.3   -10  -4.380882e+00   1.4066176471   -9.500652e-02
## 7663     3    1.7     8  -8.413723e-01  -0.3325407609   -2.039722e-02
## 7664     5   -7.4   -12   3.571429e+00   1.8095238095    1.204167e-01
## 7665     5   -2.1   -21  -1.791186e+00  -1.0176271186    2.424909e-03
## 7666    -7    1.2    18  -2.691441e+00  -1.8617118489   -2.865748e-02
## 7667    -3    0.4  -133  -5.682377e+00  -0.0321882419   -8.265127e-02
## 7668   -10    4.4    44  -7.617256e+00   0.5619801366   -6.224087e-02
## 7669     7   -6.0    21   4.736842e-01   0.1000000000   -1.269533e-01
## 7670    -5   -8.0    31  -2.710638e+00   1.0276595745   -2.849341e-02
```

```
## 7671    -10   7.3   -69 -2.981783e+00  0.8544638671        -4.100510e-02
## 7672    -11   9.4    73 -2.568794e+00 -1.0819559229         1.299764e-02
## 7673     13   4.1   -79  1.656642e+00  1.8839598997         8.300705e-03
## 7674      6   1.7   -14  5.476190e-01  0.7261904762         6.938259e-02
## 7675      8   3.7   -51  4.375361e+00  1.1093117409         1.531843e-01
## 7676      8  -8.1    73  3.352472e+00  2.8712121212         3.716311e-02
## 7677      5   2.2    49  7.068317e+00  1.3165739142         9.744927e-02
## 7678      5   3.3    22 -2.716534e+00  0.3140113387         6.291133e-03
## 7679      0  -2.5    -7 -2.755369e+00  0.0252100840        -2.510102e-02
## 7680     -2  -5.8    98  4.851485e+00  2.2286228623         1.879079e-01
## 7681      8   2.2   -62 -4.086667e+00 -2.4800000000        -2.758598e-02
## 7682     13  -6.2   -11  8.224510e+00  1.4788607558         6.499525e-02
## 7683     -7  -0.3    40 -4.224342e+00 -1.1240131579         1.047743e-02
## 7684     13  -8.0    -5  2.547368e+00  1.4698015531        -1.315008e-02
## 7685     -2   3.4   -29 -1.021711e+00  1.5714743179         4.476432e-02
## 7686    -13   4.4   -21 -3.987592e+00 -1.7048358601        -2.052018e-02
## 7687     -5  -4.6     7  5.793202e+00  0.6664795346         2.584910e-04
## 7688     -8   6.4   -59 -5.439130e+00 -0.9264492754        -1.658353e-01
## 7689     23   2.7   -97  5.341740e+00 -0.7946315979         2.145542e-02
## 7690      2  -1.6     3  1.185264e+00  1.1993891798         3.376190e-02
## 7691     -5   2.8   -13 -2.824549e+00  0.4514971288         1.839128e-02
## 7692      0   5.3    24 -3.695803e+00  0.7601270203         1.177884e-02
## 7693    -15   6.4     3 -6.118596e+00 -0.8766222678        -6.003520e-02
## 7694    -13  -2.2    -5 -1.150238e-01 -1.0956279809        -3.054051e-02
## 7695     10  -5.3    11  2.703772e+00  1.1075547384         2.623512e-02
## 7696     13   3.1  -111 -1.074498e+00 -2.0135118685         5.600659e-02
## 7697     18  -4.1   -42 -7.734015e-01  0.5800511509         7.917499e-02
## 7698      5  -0.8    30  1.617875e+00  2.6620205001         1.090780e-03
## 7699     -3   2.2    66 -4.254707e+00 -0.2513842746        -1.208723e-01
## 7700    -18   6.0    45 -5.653843e+00 -1.3790964714         5.695357e-02
## 7701     -8   4.1   -40 -8.021978e+00 -1.0183150183        -2.647303e-02
## 7702      0   1.9  -213 -1.262304e+00 -0.7233306731         2.224080e-02
## 7703    -15  -3.2  -110 -4.869565e+00  0.9402173913         2.694641e-02
## 7704     -3  -3.7    94 -1.120729e+00  0.6600000000        -4.178334e-02
## 7705      5  -2.0     1  9.264817e-01 -0.4687263556        -6.003375e-03
## 7706      0   2.0   -35  4.167053e+00 -2.1814474210        -6.808050e-03
## 7707     -7  -0.4   -54 -5.106648e+00 -0.8730272597        -5.454025e-02
## 7708     -2   9.0   -75 -2.280928e-01  0.2999355670        -4.455604e-02
## 7709     10  -4.2   119 -1.116192e+00 -0.5245850298        -6.077461e-02
## 7710     10  -5.3   -68  3.945365e+00 -2.0120319214         9.366633e-02
## 7711      0   7.0    46  6.109840e-01  0.7277214776        -1.754388e-02
## 7712     10   5.8   -27 -1.215691e+00 -2.0421765734        -3.267521e-02
## 7713     -7  -0.1   111 -2.332817e+00 -0.1408668731        -5.641107e-02
## 7714     -5  -0.4   -15 -1.732367e+00  0.3288763592        -2.112555e-02
## 7715      5  -3.6   -90 -2.122742e+00  0.3013136289        -1.478575e-02
## 7716      5  -2.7   -30  2.586842e+00  0.8447368421        -4.303365e-02
## 7717     -8   3.6   -27 -7.627381e+00 -0.9261904762        -1.724946e-01
## 7718      5  -1.1    50 -2.037234e+00 -0.4585272606        -2.293215e-03
## 7719     -2  -6.3   -48  2.442276e+00 -0.4517136936         6.468093e-02
## 7720     23   0.8   -21  1.211927e+01 -0.3119266055         8.259064e-02
## 7721      5  -0.8   -78  3.974257e+00  0.2057755776         1.086370e-01
## 7722     -7  -1.1    31 -1.823306e+00  0.0216802168        -5.441082e-02
## 7723      0   2.1   -73 -8.819005e-01 -0.3995475113        -3.255288e-03
## 7724     -5  -1.1   -58  1.281454e+00  1.6916258170         4.858147e-02
## 7725     13  -3.7   -75  4.804399e+00 -0.3949843260         1.013915e-01
## 7726    -12   8.2    83 -2.999087e+00  1.2708414873        -1.323436e-01
## 7727      4   6.6   -72 -5.655785e-01  0.5841924399         7.436739e-02
## 7728     -8   0.5   180 -6.679487e+00 -1.3717948718        -8.486185e-02
```

```
## 7729    13  -2.6    44  6.860552e+00 -1.7009740260        5.790627e-02
## 7730    28  -7.4  -233  9.855172e+00  2.8420689655        6.836550e-02
## 7731     0  -8.5   -77  7.151703e-01  2.5273477812        4.862368e-02
## 7732   -10   5.8    -6 -2.545958e+00 -0.1766334441        8.427068e-04
## 7733     0   1.5  -471  1.981585e+00  0.1459989401        7.381629e-02
## 7734     0  -1.5   -55  3.636977e-01 -1.0641025641        1.397740e-02
## 7735     5   0.3    54  4.201832e+00  0.9347187977        5.494662e-03
## 7736    -2  -5.1    55 -1.636909e-01  1.4951615102       -1.121496e-01
## 7737    -5   4.8   -37 -6.447811e-01  1.2101571268       -4.867203e-02
## 7738     5   3.2   -13  1.518230e+00 -0.2363081617        6.672544e-02
## 7739    13   2.6   -59  7.932609e+00  0.8760869565        1.814144e-01
## 7740    14  -3.3    34  2.099965e-02  0.6164526206       -5.529141e-02
## 7741     5  -2.6   -93 -2.167466e+00 -0.1115372323        2.927878e-03
## 7742    -5   4.8    23 -2.823618e+00  1.0012315271       -3.294536e-02
## 7743   -23   3.6    84 -1.577111e+01  0.0578209621       -1.309033e-01
## 7744    15  -1.6   -66  5.520214e+00 -0.3071657754        4.001400e-02
## 7745   -13   3.0   -23 -7.297889e-01  0.4910394265        2.372588e-02
## 7746     5   1.1    -8 -2.898083e+00  1.1178599374        1.059291e-02
## 7747    -7   9.8   -73 -6.186545e+00 -0.2096197595       -6.581036e-03
## 7748   -15   6.4    94 -7.642857e+00 -2.2063492063       -5.056772e-02
## 7749    -2  -5.9    95  3.086972e+00  1.9466932536       -5.132337e-02
## 7750   -10   5.9    86  2.506806e+00  0.4936479129       -1.059433e-01
## 7751     0   7.6   -54  4.834055e-01 -0.7017797018        6.898016e-02
## 7752    -3  -4.7    36  1.373469e+00 -0.3913265306       -1.365876e-02
## 7753    -3  -2.1   -85 -3.954678e+00 -0.5754385965        3.278881e-02
## 7754    -8  -5.3    47 -2.155795e+00 -0.0156929476       -7.307828e-02
## 7755    -3  -6.4    13  3.853611e+00  0.2110111295       -4.162769e-02
## 7756    18  -7.6   -60  1.824176e+00 -1.4780219780        7.537490e-02
## 7757    -2   0.0    78 -1.951622e+00  1.2081046102       -4.588460e-02
## 7758     7   5.8  -110  1.373918e+00 -2.0267180736        4.280124e-02
## 7759   -10  -1.0    91 -9.453522e-01 -0.6666666667        4.018887e-02
## 7760     8  -0.3   -24  4.506788e+00 -1.5542577618        2.657939e-02
## 7761   -25  -6.0   -69 -1.090512e+01 -0.3194174757        1.107584e-02
## 7762   -20   0.9    33 -3.639055e+00  0.3168252905       -1.911815e-02
## 7763     3  -5.1     1  1.021358e+00  0.6483237078        7.359642e-02
## 7764   -16  -6.9    99 -3.192536e+00  1.1631325982       -3.672552e-02
## 7765     0   6.1   141 -3.365521e+00  1.0493348115       -6.857960e-02
## 7766    -3   7.5   -57 -7.755102e-01 -1.1168367347       -8.459037e-03
## 7767   -16   4.9    44 -1.289032e+01  0.5612903226       -1.230907e-01
## 7768   -10   9.2   161 -6.142857e+00 -3.0571428571       -5.955858e-02
## 7769     5   0.8   -56  4.417762e+00 -0.7323333849        5.848966e-02
## 7770    -7  -0.8    84 -5.201417e+00 -3.2452766532       -3.664928e-02
## 7771    -8   6.1   -60  1.053479e+00  0.2551644469        6.392128e-02
## 7772    -2  -1.5    41 -4.566870e+00  1.1290628145       -1.449769e-01
## 7773    15   0.7   -32  7.362548e+00  0.9212355212        7.244546e-02
## 7774    -5   2.4  -130 -4.549495e+00 -0.7070707071       -8.396141e-05
## 7775    13   1.4   -22  8.113443e+00 -1.5615087041        9.396954e-02
## 7776   -10   0.1   -42  2.060707e+00 -0.5246925630        8.463575e-02
## 7777    -5   3.6     4 -5.704320e+00 -0.2302766199        2.844559e-03
## 7778    -7   2.3   132 -3.945312e-01  0.4903371711       -1.355289e-01
## 7779    -3  -1.8    94 -2.178310e+00  0.4590457580       -1.569001e-01
## 7780   -15  -1.7    66  3.461798e-01  0.1627812963        5.105821e-02
## 7781    -5  -4.2    11 -2.356012e+00 -1.0198655713       -4.117389e-02
## 7782     5  -9.3    36 -3.703081e-01 -1.3327731092        3.203145e-02
## 7783     0  -3.6   -44  3.631052e+00  0.5745935322        5.695398e-02
## 7784     2   2.6   -42 -1.782542e+00  0.5455712452       -3.050658e-02
## 7785     0   0.3   -43 -3.497442e-01 -0.6101875533        6.679211e-02
## 7786    11  -3.7   -30  1.202317e+00 -1.2819214785        7.048382e-02
```

```
## 7787       0   -3.6   -25  -8.723890e-01  -1.5415238356        9.365698e-03
## 7788       8   -9.3   -15   3.368573e+00  -0.4611154497        6.012075e-03
## 7789       5   -8.2    65   8.963294e-01   3.1245039683        1.719468e-02
## 7790      -8    5.8  -168  -4.031004e-01   0.2528809219        7.130030e-02
## 7791       2    6.9   -56   3.373378e+00  -1.1874620271        1.335453e-01
## 7792     -28    1.5     8  -9.692163e+00  -0.0480795058       -4.541308e-02
## 7793      -2    1.4    36   4.908374e+00   1.7404189542       -6.211533e-02
## 7794       2    1.1    42  -1.341151e+00  -0.0854518616       -1.078805e-01
## 7795      -3    1.4    42   1.924574e+00   1.1190866831       -2.192224e-02
## 7796       2   -0.7   -62   1.031638e+00   0.4765521426        5.779064e-02
## 7797      13   -0.5    -5   9.698427e-01  -0.2623834499       -2.758302e-02
## 7798      11   -4.5     2   8.670942e+00   0.6051529236        6.187194e-02
## 7799       5   -2.3    17   3.577310e+00   0.0741520468       -2.298101e-02
## 7800       5    0.7   -15   3.456490e+00  -0.6470118613        1.194444e-01
## 7801       7   -2.6   -23  -3.126039e+00  -0.7283298097        2.596382e-02
## 7802       5   -4.9   -23   8.940878e-01  -0.2104303689        4.952733e-02
## 7803      -7    2.2     7  -7.647323e-01   0.2010182800        1.750536e-02
## 7804      10   -4.3     5   2.519850e+00   0.2312709712       -2.354678e-02
## 7805       5   -4.1   -20  -8.965083e-01  -0.6970510884        8.878453e-02
## 7806       5   -2.2    -9  -1.713757e+00  -0.1767195767       -6.201436e-03
## 7807       0    0.1    -7  -2.471909e+00  -0.9594780220        5.224397e-02
## 7808       3   -1.0    -1   1.749841e+00   0.9247006263       -1.266427e-02
## 7809       2   -6.9    -8  -1.357895e+00   0.2052631579        5.433982e-02
## 7810      -8   -9.1   -19  -2.840000e+00   0.3738317757        5.165694e-02
## 7811      -3    3.9    36   4.367454e+00   1.0172061826       -2.449566e-02
## 7812     -21   -4.9    65  -8.540052e-01   0.8344407530       -3.032735e-02
## 7813      -8   -7.4   -70   1.206171e+00  -0.3093553459       -5.305193e-02
## 7814       3   -3.8    39  -4.672984e+00  -0.2855234597       -4.170213e-02
## 7815      -2    1.9   -29  -1.608730e+00   0.2821428571       -4.865478e-02
## 7816     -18    7.9    50  -5.549352e-01  -1.3459470637       -1.255898e-03
## 7817       5   -2.7   246  -4.038862e-01   0.1967383761       -4.676301e-02
## 7818      -2   -5.3    14  -3.521146e+00   0.1089254979       -6.566418e-02
## 7819       5   -2.2    60   9.539386e-01  -1.8450054618       -2.333976e-02
## 7820      10    8.6    42   5.963964e+00  -0.7679453647        2.314967e-02
## 7821      -2    7.3    -6   6.410256e-03  -0.1538461538        3.728110e-02
## 7822       5   -5.6   -35   3.160401e+00  -2.0994152047        9.259011e-03
## 7823     -15    1.6    27  -1.535117e+00  -0.4214046823       -2.083900e-01
## 7824      -2   -2.5    14   3.056098e-01  -0.7731707317       -8.658187e-03
## 7825       0   -1.4   -58   5.356137e+00  -0.4456644144        1.051371e-01
## 7826       8   -2.8   -37   3.115789e+00   1.1447368421       -9.513577e-02
## 7827       5    0.7    20  -3.382906e+00   0.4161220044       -9.188288e-02
## 7828       5    4.1   -41  -2.355644e+00  -0.7821305842        3.797780e-02
## 7829       7    3.2    95   4.909754e+00   0.0291858679        2.796158e-02
## 7830       0    2.1    57   4.404993e+00   1.0358298659        1.069691e-01
## 7831      13   -5.7   -79   6.239878e+00  -0.5935828877        2.248047e-02
## 7832      -2    2.1   -28  -3.555556e+00  -0.3425925926       -4.100297e-02
## 7833      20   -2.4    53   5.652844e+00   3.1899684044        1.685813e-01
## 7834       0   -0.4  -266   4.394606e+00   0.7754540451        7.523712e-02
## 7835       8    1.1   -72   7.717694e+00  -1.0975027770        1.104910e-01
## 7836       8    3.2     3   3.410323e+00  -0.2838709677        8.129111e-02
## 7837      -7    0.7     1  -8.455882e-01   0.8710984394       -4.480617e-02
## 7838      12   -0.6     1   1.529412e+00   0.5798319328        1.102127e-01
## 7839       3    0.9   -92   2.320638e+00  -1.4852970863        3.918680e-02
## 7840      15   -2.8    15   7.074067e+00   1.1876756323        5.444451e-02
## 7841      -5    1.0   -54   2.702973e-01  -1.5855564325        4.151768e-02
## 7842      -2   -1.5   -36   5.692576e+00   0.5381163887        8.112260e-02
## 7843     -11    1.4    66   5.632184e-01   0.2183908046       -6.419514e-02
## 7844      -7   -2.9   -63  -4.510864e+00  -1.0220002184       -8.709668e-02
```

153

```
## 7845    7  -0.4   -26  6.830646e+00  1.9496855346      3.059727e-02
## 7846   -5   0.3     8 -5.095659e+00  0.1162824507     -9.643293e-02
## 7847    0   6.3   -55  3.938160e+00  1.1425339367      9.888120e-02
## 7848    0  -3.2   -27  2.602696e+00 -2.3297836184      2.330055e-02
## 7849   -5   4.5    76 -1.416667e+00 -0.1979166667     -4.065643e-02
## 7850   -3  -5.8    15 -1.018215e+00 -1.4808743169     -4.229875e-02
## 7851    2  -5.2   -38  5.222050e+00 -0.2290372671      4.798512e-02
## 7852    2   6.6   105  1.351601e+00  1.1557881773      3.353032e-03
## 7853    8  -2.4    42 -1.638211e+00  3.6382113821     -5.582477e-02
## 7854    5  -6.8    36  1.496295e+00 -1.1296861378      4.885567e-02
## 7855    2   3.1   -32 -3.699580e+00 -0.7710084034     -8.444916e-02
## 7856   -6   3.2    26 -2.094203e+00  1.3292160738     -7.071300e-02
## 7857    2  -4.6   412  2.459016e+00 -0.8441435020     -6.175734e-02
## 7858  -15 -13.6   -30 -1.157778e+01 -1.0332929782     -2.916681e-02
## 7859    2  -2.4    86 -2.512253e+00 -0.2217339868     -9.075916e-02
## 7860   -5   1.7     5 -1.075152e+00  0.3387878788      7.583819e-03
## 7861    5  -6.1    33  5.496546e+00 -0.0432565789      5.143295e-02
## 7862    5   8.9    34 -6.439276e+00 -2.9252260982     -1.007446e-02
## 7863    0   2.1   -57 -1.063770e+00 -0.1663248182     -9.652972e-03
## 7864   10  -3.2   -34  7.729056e-01 -1.5315297194      1.143409e-01
## 7865   -3   0.7   -27 -5.982399e+00  0.4642546719     -3.243871e-02
## 7866   13   0.9    -4  4.599729e+00  0.2104470872      2.709596e-03
## 7867    0  -0.5   -65  1.306617e+00 -0.0752894595      7.765382e-02
## 7868   -8   1.2   -90 -9.204888e-01  1.0947438902      9.405476e-02
## 7869   10  -8.2    -3  3.161616e-01 -0.9787878788     -1.609847e-01
## 7870    0   4.0    12 -3.122365e+00  0.0376960702     -9.857514e-03
## 7871    0   2.4    -4 -3.980122e+00 -0.5519807243     -5.218875e-02
## 7872  -13  -2.6    57 -5.421384e+00 -0.2628268785     -5.164549e-02
## 7873  -13   5.2  -136  1.261056e+00 -2.8292682927      1.017580e-01
## 7874   16  -2.0    -6  2.757124e+00 -0.0048539326      6.595961e-02
## 7875    5  -3.3  -380 -2.143842e+00  0.3886699507     -6.534000e-03
## 7876  -10   7.8   -36 -1.600625e+00  0.5989837796     -4.846165e-02
## 7877   -7   6.3  -113  2.212324e+00  0.5090157155      5.588070e-02
## 7878    0  -0.4    15  2.457769e+00 -0.6030565461      4.662113e-02
## 7879   -3  -0.3    19 -7.702273e+00 -1.4181818182      4.613876e-02
## 7880   10   3.0   -98  7.917248e+00  0.5027557141      1.754839e-01
## 7881    5   4.1   -21  5.018706e+00  0.0064426386      1.219384e-02
## 7882    2  -5.4   -45  1.050676e+01  0.3321346375      1.589858e-01
## 7883    0  -2.8    45 -4.156326e+00  0.3087075402     -2.570377e-02
## 7884   -5   4.2   -27 -2.286405e+00  0.7293178520      1.847066e-02
## 7885   -3   8.5   -30  3.860140e+00  2.1861888112      1.589655e-01
## 7886    0   1.4   -74 -4.351515e-01 -0.1062626263      6.019896e-02
## 7887    0   0.2   -38 -3.252971e-01 -0.5999954209      6.665488e-02
## 7888   16  -2.1   -46  3.441520e+00 -1.2197159566      6.405091e-02
## 7889   10  -7.0    73 -3.930556e-01  0.3631944444     -9.919366e-02
## 7890   -7   2.7   -61 -4.364057e+00  0.3005050505     -3.307281e-02
## 7891   -7   9.4   -33  2.294176e+00 -0.2227476356     -6.245485e-02
## 7892    8  -9.3   -14  3.671981e+00 -0.3835534591      9.785264e-03
## 7893   -2  -6.5    29 -2.241905e+00 -0.9714285714     -4.079602e-04
## 7894    2  -4.0   -11  1.642445e+00 -0.1563006357      6.458347e-03
## 7895    2   2.3    26 -7.780773e-02  1.3528751123     -6.866081e-02
## 7896   13  -0.7    -8  3.236697e+00 -0.1105300402      5.758398e-02
## 7897   -2   7.9   -51  2.484362e+00  0.2590469953      2.006185e-02
## 7898  -11   4.5    -2 -8.897935e+00 -0.6160242291     -6.442182e-02
## 7899   -2  -3.3   -23  2.919601e-01 -0.9801002988      1.019063e-01
## 7900    0   5.3    -5 -6.944285e+00 -0.7574626866     -3.916925e-02
## 7901    0   7.3   -44  3.698623e+00  1.0822740113      1.176374e-02
## 7902   -8  -1.8   -45 -2.023203e+00 -1.0804738562      1.988887e-02
```

154

```
## 7903     -15    3.2     42 -7.451660e-01  0.9413881883          -6.368841e-02
## 7904       8    1.2    -66  1.537798e+00  2.6138974503           1.697031e-02
## 7905       3    2.9   -348 -1.797510e+00  0.4175341907          -1.965796e-03
## 7906     -15    5.3    -10 -7.415294e+00 -1.0147356970          -2.087100e-02
## 7907      16    1.4     22  8.393720e-01  0.0664251208          -2.522260e-03
## 7908      -7   -1.1    -13  2.097792e+00  0.1795792135           1.077553e-01
## 7909      18    2.9     51 -2.433359e+00 -0.8254291357          -5.219760e-02
## 7910     -18    8.2    -36 -7.370550e+00 -2.1193387159           5.282744e-02
## 7911       5    8.6     13  2.881167e+00 -0.1717497556           8.707401e-03
## 7912       9   -3.6     24 -2.325843e+00 -0.7921348315          -3.938093e-02
## 7913      -8   -6.7    136 -7.269900e+00  0.1220149254          -1.208960e-01
## 7914      -5    2.3    138 -1.966667e+00  2.3416666667          -3.517197e-02
## 7915      -5   -7.1     54  8.673469e-01  1.0103741497          -3.959447e-04
## 7916       5    2.7     31 -1.841441e+00 -0.6731791600          -2.105380e-02
## 7917      -5    4.1     56 -9.178295e-01  0.5587209302          -3.971056e-02
## 7918     -18   -1.4     60 -4.443961e+00 -0.2577777778          -6.019016e-02
## 7919      -5    3.1     35 -4.705040e+00 -1.1901856764          -2.357500e-02
## 7920       3   -1.0     32 -2.435129e+00 -1.2638591714          -2.980148e-02
## 7921       2   -2.2      5  1.763608e+00  0.4596884629          -2.808913e-02
## 7922       3   -5.4   -123  3.863367e+00  1.1068940418           4.637299e-02
## 7923     -16   -0.4     49 -6.260482e+00  1.2847865983          -8.267790e-02
## 7924     -18    6.3    108 -1.171958e+01 -0.0828924162          -1.856981e-01
## 7925       8    2.9    -47  3.788971e-01 -0.1852750232           6.390340e-02
## 7926      -5    2.2     55  4.005294e+00  1.4713114754           2.838575e-02
## 7927       2    5.1     -1  1.508675e+00 -1.6706036241           3.568210e-02
## 7928       0   -2.6     -8 -1.105086e+00 -0.0906079709          -8.372194e-04
## 7929      -3    2.9     33 -2.888990e+00  1.0803625712          -5.857809e-02
## 7930      10    3.7   -113  5.869048e+00  0.7602040816           4.762662e-02
## 7931      -3    1.5    -85 -4.895271e-01  0.0486873953           7.110971e-02
## 7932      -5    1.4    -34  1.605516e+00 -1.5272978415           7.856003e-02
## 7933       0   -3.5    -30 -1.958689e-01 -2.0057997558           4.737466e-02
## 7934      15   -5.6    -38  4.660932e+00 -0.3654989052           1.080335e-01
## 7935      15   -2.6     21  4.810159e+00  1.0195838433          -3.201347e-02
## 7936       0    4.4    -16 -1.137652e+00 -0.4724190283           5.053869e-02
## 7937     -19    3.3    -52 -8.639847e-01 -0.5095785441           1.092526e-01
## 7938     -10   -8.3    -11 -8.522404e+00 -0.5283066768          -1.042922e-01
## 7939      -8    6.3    -45 -3.108015e-01  0.6623118842          -1.118994e-02
## 7940       5    0.3     36 -2.847744e+00  0.1097071097           1.823860e-02
## 7941     -23   -3.0     48 -1.399438e+01 -0.2974842289          -9.800374e-02
## 7942      -3   -3.9     16  1.950697e+00 -0.1082036775          -1.609141e-02
## 7943      -8    3.9     27 -7.237019e+00  1.2379171031          -4.500958e-02
## 7944      -2   -6.2    -40 -3.392829e+00  0.1381008668          -4.228963e-02
## 7945       0   -2.5     48  4.393939e+00  1.6065340909          -6.535441e-03
## 7946      -7    2.6     23  3.184112e+00  0.7472761684          -2.763772e-02
## 7947      -5    0.3     26 -1.365847e+00  0.9110608406          -6.793033e-02
## 7948      10   -0.4     29  6.516242e+00  1.2061948255          -2.814824e-02
## 7949      18    0.2    -32 -1.603000e-01 -0.5326781327           9.241593e-02
## 7950     -10    4.2     -6 -2.509024e+00 -0.2187808158           2.310007e-02
## 7951       5    4.4      4  5.964968e+00 -0.6390739833           3.125102e-02
## 7952     -10   -0.4    -11 -8.487335e+00 -0.0159060847          -4.972671e-02
## 7953     -11    3.2     70 -8.570421e+00 -0.4560019130          -1.274882e-01
## 7954      -7   -1.0     17 -6.342593e-01  2.3927970178          -1.296809e-01
## 7955      -2   -3.4    -10  4.942970e+00  0.9870292451           3.828277e-02
## 7956       3   -0.9     -9 -6.793074e-01 -0.0491774892           4.467949e-02
## 7957     -15    3.1     10  6.915709e-01  0.0723643555          -6.957554e-02
## 7958     -11   -0.7     -3 -4.449293e+00 -0.7945693797           3.470973e-02
## 7959      13   -6.0    -23  6.553939e+00 -0.1581818182           7.425132e-02
## 7960       3   -1.0     -1  1.776779e+00  0.9007300861          -1.098934e-02
```

155

```
## 7961    -2  -2.3    4  6.987759e+00  0.7934089298       2.632042e-02
## 7962   -10   1.8  -12  3.103854e+00 -0.0107983672       7.308281e-02
## 7963     5   5.5   67  1.578947e-01 -1.1690789474      -6.943454e-03
## 7964     5  -1.4  -39  6.637631e-01 -1.0846689895      -7.419687e-03
## 7965     8  -4.1   33  4.806972e+00  1.8165292354      -4.181732e-02
## 7966   -13  -1.7  139 -4.268806e+00 -0.2667522465      -6.073857e-02
## 7967   -10   3.0   32  1.398112e+00  1.3270553987       3.010885e-02
## 7968   -11   3.5  -12 -5.795322e-01  0.0520596722      -7.250051e-02
## 7969   -13   4.3  -13 -3.561431e+00 -1.8593761468       2.638075e-02
## 7970    10  -1.4   10  4.464634e+00  0.2539375785       4.648265e-02
## 7971     0  -3.6    4  2.946254e+00  0.4239076176       3.738917e-02
## 7972     3   3.5  -34  2.638613e+00 -0.9466432646       5.852219e-02
## 7973   -11   3.6   50 -5.650714e+00 -0.2219284329      -2.384189e-02
## 7974    10  -9.5   19  5.073864e+00  0.0142045455      -1.779683e-02
## 7975     5  -0.9 -103  5.429151e+00 -0.6310830153       9.302378e-02
## 7976     5  -5.7   13 -1.466369e+00 -2.4826130154      -8.770706e-03
## 7977    -3   0.2   11 -7.663577e+00 -1.2690061449      -9.770966e-02
## 7978    -5   4.9   55 -6.250593e+00 -1.3589963119      -5.020547e-02
## 7979     0  -6.6  239 -1.499791e+00 -0.0050272308      -2.799409e-02
## 7980    11  -6.9  -68  7.032758e+00 -0.7477985206       1.294019e-01
## 7981    18   2.6  -70  1.244202e+01  0.8444444444       8.605426e-02
## 7982    -2  -0.2    4 -3.570761e+00 -1.3422563418      -4.415494e-02
## 7983     7 -10.5  -67  5.198383e+00 -0.8752920036       8.396939e-02
## 7984    -2  -1.1  -34  1.353400e+00  0.0708752073       1.075080e-01
## 7985    -2  -5.1   -2 -1.533809e+00  1.6745757677      -3.917396e-02
## 7986     0  -3.8    1  2.485797e+00  0.4218558538      -2.416192e-02
## 7987     5  -2.5   15 -2.983896e+00  0.8850371418      -1.422941e-01
## 7988   -21   3.3  -41 -3.774717e+00 -1.2532757594       1.138693e-04
## 7989     6  -5.6  -23  4.159603e+00  2.4696031746      -3.353913e-02
## 7990    -5  -8.6   -7 -2.809119e+00  0.1917924528      -8.630813e-03
## 7991    -8  -0.7   46 -8.091009e+00  1.2500000000      -1.169471e-01
## 7992    20  -4.9  -18  1.299953e+00  0.0128368794       1.858157e-02
## 7993    -8   9.3  -48 -2.297232e+00  0.7528395457       8.082830e-02
## 7994     5  -1.5   22 -9.007284e-01  1.9681387146       4.747364e-02
## 7995    -8   4.0   24  3.216912e+00  1.2193627451       3.289833e-02
## 7996    20  -1.2   12  3.931752e+00  0.2243487507      -4.484971e-02
## 7997     8  -7.1  -21  9.541994e+00 -1.3902905199       7.510097e-02
## 7998    23  -2.2  -31  1.312085e+01 -0.3257704136       1.341129e-01
## 7999    -5  -2.4   33  4.672631e+00  1.2689529084      -9.668684e-02
## 8000    10   0.0  -15  2.364246e+00 -1.4935926259       1.143090e-01
## 8001     8  -5.1   35  3.909884e-01  2.2797965116      -9.998847e-02
## 8002    15  -1.5   46  7.077581e-01 -0.4759818654      -4.243562e-02
## 8003    10   4.7   -9  7.100655e+00 -0.6448417031       1.019665e-01
## 8004    13  -0.1  -10 -7.469197e-01 -0.0191058941       4.147572e-02
## 8005   -13   5.8   -3 -8.040957e+00 -0.3983584654      -2.749527e-02
## 8006    -2   3.3   43 -1.374291e-01  1.1019550137      -1.188208e-01
## 8007     5   0.7   40  3.000111e+00  1.4406745037      -6.067969e-02
## 8008    -2  -1.6  -41  5.640465e+00  0.5460611279       6.976204e-02
## 8009    15  -3.1  -11 -6.975342e-01 -0.0729360088       6.586704e-02
## 8010    -2   1.2    7  3.495225e+00  1.0980355377      -8.693530e-03
## 8011     0   2.1    7  4.504978e+00 -0.0790043290       8.198361e-03
## 8012    13  -2.3    4  4.526511e+00  0.7456140351      -6.908228e-03
## 8013    10  -1.3    3  2.735556e+00 -0.1527454305       7.366870e-03
## 8014    -2   4.9   -9  1.392344e+00  0.7177033493      -2.321718e-02
## 8015    -8   0.1   45  1.856295e+00  3.7088551967       7.105867e-03
## 8016    -6   0.3   58 -2.105263e-02  2.4381578947       2.063356e-02
## 8017    -7   0.1   30  4.188769e+00  0.6891290528      -1.144394e-02
## 8018     0  -8.0   79 -1.300752e+00 -0.4300751880       1.206010e-02
```

156

```
## 8019     5    3.1    45 -4.005352e-01  1.0914362177   -3.200938e-02
## 8020     5    1.2     3 -2.991048e+00  1.2063205960    4.355463e-03
## 8021     0    1.4    31  9.515186e-01  3.1354148209   -3.105510e-02
## 8022    28   13.5    -9  1.333249e+01 -0.6592920354    5.139780e-02
## 8023   -10    1.3    18 -6.988331e+00  1.2857530529   -4.582195e-02
## 8024    -3   -4.5    95 -1.453488e+00  1.3623635501   -3.471937e-02
## 8025    -2    1.5    10 -1.445516e+00  0.3266799734    2.476901e-02
## 8026    13   -9.3   -13  4.280303e+00  0.4340909091   -9.838397e-03
## 8027    13    5.1   -79 -4.806250e-01 -1.9850000000    5.552581e-03
## 8028     5    0.5   109  2.310606e+00 -0.9818181818    3.018435e-02
## 8029    -8   -0.2    55  1.357143e+00  1.7519201229   -1.277194e-01
## 8030     5   -4.6    26  1.322308e+00 -0.9669230769   -4.076500e-02
## 8031    -3    4.4   -70 -3.539011e+00 -1.6033353186   -8.241135e-02
## 8032     8    3.2    48  3.435315e+00  0.1252913753    3.083377e-02
## 8033     8   -1.4   -55  4.309458e+00  2.7853619201   -3.909662e-02
## 8034    -5   -7.6   148 -1.168831e+00 -0.3636363636   -1.041569e-01
## 8035    -2   -3.3  -227 -1.625000e+00 -1.5416666667   -1.234578e-01
## 8036     0   -0.3    -8  2.536824e+00  0.3324819072   -1.139287e-02
## 8037     0    3.9   -74  1.443821e-01 -0.0410476505   -1.251247e-02
## 8038   -10   10.5   -94 -4.569101e+00 -3.1686358754    1.437072e-02
## 8039    -8    2.2   -49  7.934626e-01 -0.4982040230    1.010083e-01
## 8040   -13    0.2   -37 -1.528839e+00 -0.6166666667    1.746870e-02
## 8041    -3    2.3     9 -1.950928e+00 -2.1685528757   -4.618966e-02
## 8042   -15    7.4    49 -7.116382e+00 -0.9475015813   -6.630856e-02
## 8043    12    5.1    57  2.229941e+00  0.9884900074    1.947041e-02
## 8044    20    7.5    39  1.123938e+01  0.9819218096    6.341349e-02
## 8045     0   -1.0   -41  2.047997e-01  1.8491519307    6.357782e-04
## 8046    -3    3.2    23 -4.037215e+00 -1.3953581433   -1.879641e-02
## 8047    -3   -2.2    82 -1.487780e+00  0.8598821908   -5.341434e-02
## 8048    -5   -1.0   -89  1.503759e-02 -1.1604010025    1.444109e-01
## 8049    -3   -0.9   -64  4.302066e+00  0.7834965369    5.638636e-03
## 8050     0   -1.1    76 -7.230769e-01  2.6421245421    1.013232e-01
## 8051    -5    4.2  -152  3.694690e-01 -0.9612831858   -2.221890e-02
## 8052     5   -2.1    33  2.002102e+00 -0.1668152866    2.004152e-02
## 8053    -8   -2.2    41 -5.371394e+00 -2.3948317308   -1.100365e-01
## 8054     0    8.9   -27 -1.940323e+00  0.4291563275    4.994515e-02
## 8055    -7    2.2    61 -1.770499e+00  0.2552845528   -1.580353e-02
## 8056     3    1.0    95 -1.806291e+00  1.1763345944   -6.601446e-02
## 8057    -3   -8.3   141 -4.605150e+00  0.3301144492   -5.751549e-02
## 8058   -13    2.2    11 -1.787992e+00 -1.1289868668   -3.011270e-02
## 8059    12    0.2    46  3.647543e+00 -1.1014861427    2.273830e-02
## 8060    -2   -0.4   -29 -4.750000e-01 -1.3000000000    1.735982e-03
## 8061    15    3.9    68  3.422056e+00  2.1691542289    1.157453e-01
## 8062   -13   -2.5   132 -7.747368e-01 -0.3221052632    1.791534e-02
## 8063     2   -0.2   -43  4.340951e-01 -0.3031767632   -1.661393e-02
## 8064     0   -1.7   -14  6.754309e+00 -1.2256269950    1.240128e-01
## 8065     3    0.7   -34  2.140313e+00  0.5199430199    5.227211e-02
## 8066    23    7.3    76  1.189784e+01  0.4102347762    4.295887e-02
## 8067   -15    6.4   -23 -5.813457e+00 -1.7066255778    2.614026e-02
## 8068     2   -1.9    55 -3.206672e+00  0.4468155500   -9.934142e-02
## 8069    -7   -3.8    80 -9.602842e-01 -0.4401933380    6.847401e-03
## 8070     8    2.0    -3  1.115670e+00  0.9977207977   -4.407747e-02
## 8071     8   -7.3    32  6.176471e-01 -0.0257352941   -1.572296e-02
## 8072    -2   -1.5    92 -2.014572e+00 -0.4958660604   -5.533956e-02
## 8073   -13    9.1   -25 -3.698728e+00 -0.9701907790    2.709749e-02
## 8074    -2    9.0   -51  1.217013e-01  0.7547258095    7.989835e-02
## 8075   -18    4.4   -28 -4.898420e+00 -1.5837347837    3.933128e-02
## 8076    -5    4.0   -25  4.105386e-01 -0.3115534738   -4.064946e-02
```

```
## 8077      3    0.2    -3  4.517480e+00 -0.0289972900        1.032654e-01
## 8078      5   10.6     5  9.796640e-01  0.6582670203        1.764913e-03
## 8079     -3   -5.8   -11 -1.098930e+00 -1.7994652406       -1.069478e-02
## 8080     -5   -6.1   -45 -2.431608e+00 -0.6747591158       -1.005501e-02
## 8081    -15   -0.7    51 -8.191375e+00 -3.3423180593       -1.990048e-01
## 8082     -5   -1.3   -57  2.632957e+00 -0.1173784582        8.965324e-02
## 8083      3    0.4   -37  7.032257e+00 -1.2556390977        4.435303e-02
## 8084     18    4.8    -5  2.523626e+00 -1.9363853650        4.099525e-03
## 8085     -3   -0.3    41  2.433484e+00 -0.7153199741       -6.080795e-02
## 8086     -5   -3.2     1  3.440246e-01 -1.7644754949        8.269665e-03
## 8087     10   -1.8     7 -3.093702e+00  0.0144532886       -6.969301e-02
## 8088      6   -3.4    31  4.133682e+00  0.3751512511        1.184743e-02
## 8089     12   -2.2    95  2.134448e+00  0.0550724638        4.817560e-02
## 8090      3  -12.4   -23  2.574969e+00  0.1750430053        1.159403e-02
## 8091     20    1.9   -43  8.543760e+00  0.8153238547        3.173874e-02
## 8092     23    1.4    50  2.209591e+00  2.5551643192        1.491433e-01
## 8093    -10    2.1    17 -3.218013e+00 -0.6742424242       -9.374823e-03
## 8094      0    1.3     3 -8.184789e-01  0.5537730244        1.895550e-02
## 8095     -2   -3.4    -7  3.612395e+00  2.5220588235        3.909348e-02
## 8096      2    6.9   -56  3.370305e+00 -1.0758160758        1.250941e-01
## 8097    -16   -3.3    11 -7.213152e+00  1.6668966615       -7.214177e-02
## 8098     -7   -8.3  -157 -1.192961e+00 -0.2408902692       -3.175037e-02
## 8099     -2   -1.1   -95  1.375654e+00 -0.2058135650        3.758154e-02
## 8100      0    2.0    13 -5.068056e+00 -0.5987933635       -5.518486e-02
## 8101     11   -7.8   -15  4.728756e+00  1.9444724300       -3.517121e-03
## 8102      3   -3.2    -6  3.993248e+00  1.3602547771        1.490421e-02
## 8103     10  -10.4    31  1.933393e+00 -0.8390083632        1.304306e-02
## 8104     12    6.6    76  9.827157e+00  0.5673466841        1.493296e-02
## 8105    -10   -5.5    12  9.812935e-02 -1.3080188980       -7.301744e-03
## 8106     15   -3.3   -92  6.735015e-01 -0.9707536282        6.863779e-02
## 8107    -10   -0.3   -30 -3.225222e+00 -1.3051837295        7.309517e-02
## 8108     -5   -1.7    46 -2.847726e+00  1.0577590248       -1.959889e-02
## 8109    -18    1.6    38 -8.220106e+00 -2.6370370370       -9.164699e-02
## 8110      8    2.4   -16  2.212032e+00 -0.7155859917        7.013218e-03
## 8111      2    1.5    60 -7.397004e-01  1.3751560549       -2.601065e-02
## 8112     -6    5.2    12 -3.818770e+00  2.0642425984       -6.661819e-03
## 8113     12    1.1    18  9.729073e-01 -1.5542944451        5.719776e-03
## 8114      8   -2.5   -16 -1.026412e+00  0.4098604903        3.618526e-02
## 8115     -2   -5.3    24 -4.554219e+00 -1.9390885847       -6.090421e-03
## 8116     -3    5.1   -42  1.154310e+00 -0.3445303440        9.979863e-02
## 8117    -18   -1.8    22 -8.685508e+00  1.9671960968       -5.003102e-02
## 8118      5    4.9    11  5.723665e+00  0.2341670675        4.197874e-02
## 8119      0    2.3   -70  2.245846e-01 -0.3746334311        1.993076e-02
## 8120    -15  -11.3   -43 -7.411931e+00  1.2426055168       -5.784472e-02
## 8121     -5   -1.3     3  2.414322e+00 -0.4005982699        3.256173e-02
## 8122     13   -6.7   -96  2.444588e+00 -1.9570876289        5.519703e-02
## 8123    -28    8.6   -12 -7.709030e+00 -2.8179385832       -3.661704e-03
## 8124     -8    3.6     7 -4.635975e+00 -0.0835275835        2.882289e-03
## 8125     -5   -1.7     4 -5.804398e+00  1.5757633154       -4.581611e-02
## 8126     -3    9.8   -16  6.484468e-01 -1.6035723146        8.890333e-02
## 8127      3   -4.2    -3  8.395722e-01  0.3053475936        3.741985e-02
## 8128     10   -5.4    11  1.921464e+00  0.8775434243       -1.269695e-02
## 8129     -2   -0.9   -20  8.524734e-01  0.3782905352        4.454354e-02
## 8130    -10    4.8    60 -3.597802e+00  0.4732600733       -8.498070e-02
## 8131      8   -3.4    10  5.282491e+00  0.0742007435       -4.827421e-02
## 8132      8   -8.9    34  2.411566e+00  2.4698977387       -1.044138e-01
## 8133     -2    0.5   -18 -2.609404e+00 -1.3751696902        1.017273e-02
## 8134     13   -7.2    -1  2.004539e-01  0.6931791728       -3.259182e-02
```

```
## 8135     8   -0.2    18   9.576412e-01   0.4029447297        -2.803050e-02
## 8136    -5    3.3    -9   3.064210e+00   1.6964285714         5.297548e-02
## 8137     5    0.6    19  -4.077998e-01  -1.1321203746         2.245116e-02
## 8138    -2    4.8    10  -3.736932e+00   0.4426012839        -9.839359e-05
## 8139     7    8.0    16   3.942999e+00   0.5835973842        -2.229724e-03
## 8140     8    1.5    11  -4.969554e-01  -0.8215469946         4.271569e-03
## 8141    10    6.8    -3   1.115210e+00   0.6931301791         9.309841e-02
## 8142     2   -0.6     4  -1.036076e-01   0.9015189873        -2.415547e-02
## 8143   -13    4.4    20  -8.509657e+00  -0.4845489661        -4.189634e-02
## 8144    20   -3.9     6   6.576795e+00   0.2311747631         5.759401e-03
## 8145   -12    0.4    -2   1.964045e+00  -0.1941803045         8.479506e-02
## 8146    -2  -11.0   -28  -1.147479e+00   0.0336134454        -1.887099e-02
## 8147     8   -1.1   -29  -1.825810e+00   0.4780528396        -4.109105e-03
## 8148     5  -11.1    26  -4.843146e+00  -1.7331650485        -4.422562e-02
## 8149     5    1.1    12  -4.014151e+00  -0.4327527818        -2.748472e-02
## 8150     0    2.6   -27  -4.548919e+00  -1.4486486486        -3.863945e-03
## 8151    -5   -0.1   -38  -3.901872e-01  -0.7952908101         1.183746e-01
## 8152   -15    3.0    66  -7.113095e+00  -3.5357142857        -4.003855e-02
## 8153    -3   -2.6   -24   4.146475e-01  -1.9410822625         6.997972e-04
## 8154   -10   -4.7    10  -7.053633e+00   0.6330825117        -9.941228e-02
## 8155   -21    3.3   -41  -3.898905e+00  -1.2456413029        -4.919600e-04
## 8156     7    2.9    39   4.525000e+00   1.0454545455         8.415816e-02
## 8157    -6    3.7    38  -8.413991e+00  -0.1944168598        -1.137706e-01
## 8158   -16   -0.4    45  -6.270576e+00   1.2514412417        -8.415385e-02
## 8159    18   -4.8    15   3.166293e+00   1.2802496799        -7.785778e-02
## 8160   -10   -5.5    11   1.428840e-01  -1.3065999374        -7.817529e-03
## 8161    10   -4.0     4   4.299162e+00  -0.6915968193         6.361905e-02
## 8162     0    0.0   -36   7.943921e-01  -0.3452018371         5.174917e-02
## 8163    -5   -3.6   -21  -4.202569e+00  -0.9325208608        -6.864798e-03
## 8164     0    0.7    23  -2.270111e-01   0.8993866478         1.571411e-02
## 8165   -21    1.1    49  -8.305677e+00   1.3825557343        -1.142915e-01
## 8166    18   -4.5    13   7.584236e+00   3.5975877193        -3.271300e-02
## 8167     7    3.5    -9   3.202054e+00  -0.4896665399         4.933795e-02
## 8168     8   -2.7    14   1.298657e+00   0.1842510043        -5.867669e-02
## 8169     0   -5.3     4   7.016936e+00   0.6736602629         5.153081e-02
## 8170     7    2.2   -17   9.775055e-01  -0.6750469656         5.443095e-02
## 8171   -10   -2.6    17  -7.466923e-01   0.9207568644        -5.824972e-02
## 8172     0    0.4    -5  -1.650198e+00   0.3039688768         6.713530e-02
## 8173   -18   -2.1   -14  -1.120023e+01   0.0805192810        -2.594396e-02
## 8174     0   -0.1     9   2.410348e+00   0.9406135531        -5.389000e-02
## 8175    21   -3.4     4   4.547110e+00   0.0869513585        -5.095347e-03
## 8176    13   -7.2    -1   1.498848e-01   0.6896890467        -3.436819e-02
## 8177    -5    2.1     6   1.732870e+00   0.2432115214         3.144717e-04
## 8178    10   -4.1    -2   5.893263e-02  -0.7157712098         2.850551e-02
## 8179     3   -5.8    -4  -2.486537e+00   0.8076089099        -3.700215e-02
## 8180    13   -5.1    -1   1.873715e+00   0.1475615887         1.742394e-02
## 8181     2   10.5   -97  -8.041791e+00  -1.3393034826        -5.871970e-02
## 8182    -9    3.7   -26   2.327028e+00   0.7338017174         3.378602e-02
## 8183   -13    4.8   -17  -4.839974e+00   0.3799807419        -2.680370e-02
## 8184     0    5.6   -20   3.215088e-01   1.3105939005         5.326820e-02
## 8185    -5   -1.3    25  -3.421916e+00  -1.6434353842        -5.813610e-02
## 8186     5    6.2   -39   7.134905e+00   1.5940106580         1.046017e-01
## 8187    20   -2.0   -23   6.831731e+00  -0.1009615385         9.118830e-02
## 8188     2    4.1    20  -6.673951e-01  -0.3666520979        -3.417052e-02
## 8189    10   -2.1    -8   5.823489e-01   0.7433213082         1.532009e-02
## 8190     0    0.1    33  -4.271723e+00   0.6980198020        -1.264784e-01
## 8191     4   -2.1   -15   7.405760e+00   0.8186911699         1.023409e-01
## 8192     2    5.1    16   1.392999e+00  -0.8365446371         2.984617e-02
```

```
## 8193      8  -0.6   -32  4.916781e+00  -0.1953178401      7.486865e-02
## 8194    -10   5.8  -128 -5.776365e+00  -0.0649178590     -8.092088e-02
## 8195    -10  -2.6   -14 -3.013627e-02   0.5031446541     -6.817878e-03
## 8196     10   2.0    51  3.023236e+00   1.0314504772     -4.841909e-02
## 8197     -9   4.0   -55  3.417316e+00  -1.2260063157      1.668986e-01
## 8198     13  -9.6    87  4.182891e+00  -1.3859390364      9.051243e-02
## 8199     20   1.2    20  4.630092e+00  -0.3053611088      4.709262e-02
## 8200     -3   5.5   -28 -1.118519e-01  -2.7016931217      6.404931e-02
## 8201      2   8.8    43  3.580827e+00   0.7534461153      2.177286e-02
## 8202      5  -0.5   -54  1.545901e+00  -2.1366276271      1.054799e-01
## 8203    -10   4.8    -7  3.687246e+00   0.2830284553     -3.167813e-02
## 8204     11   0.9    46  3.785859e+00   1.9575757576     -3.163097e-02
## 8205      5   2.3    94  2.833333e+00  -0.3893805310      1.359948e-02
## 8206     -5  -3.3     5  3.045325e-01  -1.7663299663      7.885188e-03
## 8207     15   1.7  -126  2.595238e+00  -1.4071428571      7.266753e-03
## 8208      5   4.3   -24  4.315476e-02   0.9929315476     -2.421848e-02
## 8209    -12  -6.6   -71 -9.766913e+00  -0.5645063781     -1.462105e-02
## 8210     13   0.1    78  3.442435e+00   0.8369499699      6.022596e-03
## 8211     -2   2.3   -26  5.116588e+00  -1.3020637409      9.120842e-02
## 8212     -5   2.2    41 -4.939123e+00  -2.0434253247     -6.559659e-02
## 8213      0  -4.1    31 -9.342896e-01   0.2062595088      1.227321e-02
## 8214    -13  -7.7   -31 -1.757508e+00   0.9767267267     -2.067444e-02
## 8215      5   0.4   -26 -4.007380e+00  -2.0252657911      1.822591e-02
## 8216    -10   2.6    -8 -3.868254e+00   0.4253968254      2.098507e-03
## 8217      5  -3.8   -71 -6.766238e-01  -0.2916244756      1.057959e-01
## 8218      5   1.3   -38  4.295073e+00   2.3027412148     -9.214118e-04
## 8219    -18   6.1    -1 -6.317838e+00   0.2091891892      3.218165e-02
## 8220     -5   6.6   -54 -4.671688e+00  -0.5566111714      7.031900e-02
## 8221      5  -0.1   -73  1.344203e+00  -1.9351639969      9.934724e-02
## 8222      8  -5.9   -36  4.204400e+00  -0.0392648287     -8.844667e-03
## 8223      0   6.3    48 -4.115508e+00   0.9110371466     -5.472188e-02
## 8224     12   5.8   -33  6.007171e+00  -1.1618217054      4.378082e-02
## 8225     -8  -2.8    58 -1.854123e+00   0.3974853975     -5.372204e-02
## 8226      2   4.3   -87 -4.070513e-01  -0.8355082418      1.419115e-01
## 8227    -10  -2.3   -50  8.142878e-01   2.9461595824      4.619118e-02
## 8228      0   3.6    36 -3.542347e+00  -0.6431935551     -5.249155e-02
## 8229      6  -3.1   -12  4.340951e+00   1.9245957711      1.250560e-02
## 8230     -8   0.2   -22 -2.402174e+00  -1.3450723508      2.064930e-02
## 8231    -13  -1.3    21 -1.806442e+00   0.2925807738     -2.350413e-02
## 8232    -21   5.3   -51 -5.588820e+00  -0.6097788350      6.586408e-02
## 8233    -10   5.2   -24 -2.979883e+00  -1.3567251462      5.791826e-02
## 8234     -5   2.2   -23 -5.761584e+00  -2.4455298365      5.476684e-02
## 8235      2  -2.3   -14 -4.550636e-01  -0.4110221385     -3.687435e-02
## 8236     -5  -1.3   -44  2.705413e+00  -0.0731085067      7.690942e-02
## 8237     -8  -2.2   -40 -4.601932e-01   0.2811594203      2.397099e-02
## 8238     -3   0.9   -23 -6.717172e-01   0.9869281046      1.643641e-02
## 8239      3  -2.9    -9  4.097869e+00   2.0260678392     -3.715132e-03
## 8240      8  -0.2    30  4.800161e+00   2.2813082437     -7.516546e-02
## 8241      7  -1.2   -42  4.560440e-01  -0.8901098901      8.204845e-02
## 8242      7  10.3   -49  2.716808e+00   0.0077463520      4.930131e-02
## 8243    -13   7.0    -9 -2.506733e-01   1.8053862509     -1.388001e-02
## 8244      2  -3.8   -14  2.546780e+00  -1.4479241582      7.131956e-03
## 8245    -10  -0.3    39 -8.417949e+00  -0.6512820513     -3.998593e-02
## 8246     -5   4.5   -51 -2.434906e+00  -1.3196226415     -1.448779e-01
## 8247    -11  -3.7     4 -4.414324e+00  -1.0016216216     -9.061898e-02
## 8248    -10   4.0    -7 -4.568839e+00   1.3714379299     -3.707571e-02
## 8249      8  -0.6     1  4.977633e+00  -1.6711201241      4.799015e-02
## 8250      5   1.5   -69  6.624730e-01  -1.4507548526      1.483075e-01
```

160

```
## 8251   -10    7.8  -39  3.886752e+00  0.4252136752   2.174688e-01
## 8252     3   -5.9   30 -9.832776e-01  0.4754738016  -4.214294e-02
## 8253     5   -3.7   -4  5.265409e+00  0.1432311552   6.625539e-02
## 8254   -10    2.9  -60 -3.067686e+00  0.0271624473  -4.154693e-02
## 8255    -4    1.8  -18 -1.744884e-01 -1.0604703247   6.676295e-02
## 8256   -11    5.2   35  2.037037e-02 -0.4055555556   1.787113e-02
## 8257     3   -6.5   16  2.529128e+00 -0.5093274423   7.292407e-02
## 8258     2    2.7    7  3.087768e+00  1.1087768441  -2.008121e-02
## 8259    -3    5.6  -63 -6.712942e-01 -1.7541424093   6.375369e-02
## 8260    -2    4.3  -29 -3.482372e+00 -2.7846153846  -4.145926e-02
## 8261    -8   -5.0   15  3.814804e+00  0.0889976959  -1.444770e-02
## 8262    -8    7.3  -93  6.707222e-01 -1.6486010405   9.135419e-02
## 8263    -8    6.7   45  1.426522e+00  1.1954347826  -6.452533e-03
## 8264     0    4.4  -10 -1.916659e-02  2.7511098864  -3.275622e-02
## 8265    -3    9.2  -40  1.082337e+00  0.0857458351   9.805511e-03
## 8266   -15   -3.6  140 -1.082315e+00  1.5902228613   1.122458e-01
## 8267   -11    2.6  -15 -3.522668e-01  0.4788952579  -3.227091e-02
## 8268    10   -7.0   33  3.061538e+00  0.0692307692  -9.686911e-02
## 8269    10   -2.1  -12  6.923359e-01  0.8052468782   2.024525e-02
## 8270    10   -1.6   44 -9.833470e-01  0.3148117840  -1.927240e-02
## 8271     8   -4.0   66 -2.313785e-01 -0.9319394867   2.612014e-02
## 8272    21    2.5  -76  1.009034e+01 -0.3500020229   1.264354e-01
## 8273     4   -1.4   31 -4.719706e-01  0.3997552020  -2.525359e-02
## 8274    13   -1.1  -45  5.871324e+00  2.2334558824  -3.134707e-02
## 8275     5   -5.6  -50  2.166263e+00 -2.2114879871   1.176795e-01
## 8276    -3  -14.5   88  1.389286e+00  1.8178571429  -1.771420e-02
## 8277   -23    2.0   34 -2.957292e+00 -2.2728566909  -6.568966e-02
## 8278   -13    1.2  -55 -6.079973e-01 -2.0222446237   7.446409e-02
## 8279   -13    9.9   40 -3.415920e+00  0.7659203980  -5.873067e-02
## 8280    -8    6.3  -98 -5.378852e+00 -0.9134860051  -1.673774e-01
## 8281    -3    3.7  -17  2.402387e-01  2.0558397272   7.972713e-03
## 8282   -28    1.6    8 -9.679719e+00 -0.0674313267  -4.993311e-02
## 8283     1    0.4  -45 -2.043750e+00  0.2458333333  -5.297758e-02
## 8284     2   -4.5   27  5.684428e+00  3.4401500938   3.276894e-02
## 8285   -13    3.9    3  1.680793e+00  0.9694277968  -4.871622e-02
## 8286     5   -1.4   59  9.117217e-01  1.2363831238  -6.704488e-02
## 8287    13   -5.8  -27  1.122397e+00 -1.6739501536   5.048628e-02
## 8288    23    2.9  -59  1.420900e+01  0.3486799324   8.709576e-02
## 8289     0   -6.8  -49 -7.333044e-02 -0.7914680533   2.930548e-02
## 8290   -26    1.7   48 -1.218280e+01  1.1870381081  -1.094151e-01
## 8291     5    4.0  -47  1.613755e+00  0.4850322092   4.199904e-02
## 8292     8   -6.4   56  2.856107e+00  0.2584514722  -4.969468e-02
## 8293     5   -6.3   17  5.753209e+00  1.8380952381   4.992012e-02
## 8294    10    5.7  -78  1.723820e+00  0.2936536828  -2.146590e-02
## 8295   -10    3.0   18  1.444125e+00  1.2860791826   4.107190e-02
## 8296    -7   -2.3   46 -3.826080e+00  1.0466049383  -2.052363e-02
## 8297    16    4.4   37  1.611420e+00 -0.1733666809  -3.771199e-02
## 8298    11   -5.4  -66  9.598498e+00 -0.0970423189   1.139763e-01
## 8299     2    1.5 -120  1.865672e-01  0.7591587517   2.400349e-03
## 8300    -2   -0.8  -71 -2.601881e-01 -0.2037617555   1.453422e-01
## 8301   -11    4.6   94  4.560457e-01 -1.3052999048   1.001717e-02
## 8302     8   -0.3  -28 -1.945505e+00 -0.5529330094   7.482277e-03
## 8303   -13   -2.5  125  9.803922e-01  1.3333333333  -5.904785e-02
## 8304   -12    2.7  108 -4.477053e+00  0.5771838331  -1.457257e-01
## 8305    -3    0.1  -42  2.990313e+00  0.2412169998   1.847746e-02
## 8306     8    3.4  -70  7.280112e+00  1.7753501401   6.617239e-02
## 8307     4    9.2   15 -4.603571e+00  0.0285714286   3.232553e-02
## 8308    -3    1.2   -1  2.264344e+00  1.2311265970  -4.028093e-02
```

161

```
## 8309    16   4.2   -93  1.146292e+01 -1.6802431611      9.758903e-02
## 8310     5  -3.6   -60  9.209134e+00 -0.0245762712      1.195618e-01
## 8311     0   1.7   -41 -2.622294e+00 -0.3057359307      4.574090e-03
## 8312    -8   2.5    -1 -3.526282e+00 -0.3742165242     -6.695991e-02
## 8313    13  -2.6    40  4.194593e+00  0.3758623663     -3.143276e-03
## 8314     0  -6.6   220 -1.498525e+00 -0.1873156342     -3.815580e-02
## 8315     5  -0.6     3  2.343290e+00 -1.0298685783      4.462635e-02
## 8316     3  -8.3    55 -2.900385e-01  0.9610818461     -8.998860e-02
## 8317    -2 -10.5   127  3.536765e+00  2.2573529412     -8.837114e-02
## 8318    25   5.8    41  9.333749e+00 -0.3449763501      4.866698e-02
## 8319     0   4.4   -86 -2.093985e+00 -0.5601503759     -5.142989e-02
## 8320     5  -0.8    -1  8.628624e-01  0.0825755264      3.973932e-02
## 8321     0  -5.1    46 -2.585345e+00  0.6660787124     -8.006248e-02
## 8322   -10   7.8   -90 -2.347213e+00 -1.4484304933      1.487361e-01
## 8323   -10  -8.8    76  2.619048e-01  1.7857142857      1.670758e-02
## 8324    -8   2.0   -36 -1.720241e+00  0.6273816004     -4.233023e-02
## 8325     0   1.3    69  5.946970e-01  0.8564393939     -1.195108e-01
## 8326    -5  -1.6    72 -1.770629e+00  1.7164335664      3.281047e-02
## 8327    -5   1.5   -76 -5.276455e+00 -1.7054673721     -1.585326e-01
## 8328     2  -2.3    77 -2.693262e+00  0.6548104639     -9.783639e-02
## 8329    -2  -4.1   -21  7.049524e-01 -0.6831428571      1.147839e-02
## 8330    -2  -5.8    21 -3.681503e+00  0.5692119232     -1.345992e-01
## 8331    16  -3.3    29  2.869373e+00  1.2455122894      5.136451e-02
## 8332     3  -9.5    25 -3.681847e+00 -1.4674256799     -1.393255e-01
## 8333    12  -1.0    11  2.403337e+00  1.7862068966     -4.235007e-02
## 8334     0  -4.1   -73  3.984653e-01  0.9437128713     -6.711319e-02
## 8335   -10  -3.7    29 -9.990512e-01  0.7246995572     -1.139750e-02
## 8336   -10  -0.1    18 -7.804343e+00 -2.0850735643     -3.320625e-02
## 8337     5  -4.4   -18  6.892837e+00  1.8162792769      4.911680e-02
## 8338    12  -4.7   -66  3.868234e+00  0.2820512821      1.197995e-01
## 8339    -5   1.2    59  6.665751e-01  1.3540135120     -5.930611e-03
## 8340    13  -6.5    38  2.055525e+00  0.2816185810      1.604750e-02
## 8341    -3  -0.5    94  1.067718e+00  0.2767131243     -9.943130e-02
## 8342    -8  -6.0    63 -2.346304e-01  1.6725765600      3.557599e-02
## 8343    -7  -5.4    66 -2.186380e+00  1.4260681573     -4.893296e-03
## 8344    -2   0.5  -100 -1.147059e-01  0.2301470588      2.995355e-02
## 8345     2   9.4    65 -1.035050e+01 -1.5272232305     -1.100709e-01
## 8346    -8   7.8    31 -2.928463e+00  0.3320649417     -2.870538e-02
## 8347    15  -0.4   -57  5.716212e+00  0.3177905308      6.219364e-02
## 8348     5   1.2   117 -5.801255e+00 -0.6365192206     -5.338148e-02
## 8349     0   3.7    55 -5.466777e+00 -0.2236987818     -3.541842e-02
## 8350     0  -2.7   119 -3.204304e+00  0.5997802911     -8.860220e-02
## 8351    15  -3.8    17  2.588998e+00  0.2160138249      3.122195e-02
## 8352     0  -1.5    46 -1.396476e+00 -0.8056779246     -7.247026e-02
## 8353     3  -5.6    93 -3.550275e+00  2.4320054945     -1.891712e-01
## 8354     7  -1.7    79  2.527381e+00  3.2416666667      7.293512e-02
## 8355    18   7.3  -115  4.994444e+00 -0.1138888889      2.135234e-02
## 8356     0  -0.5   -18  2.222825e-01 -1.5266775185      2.323197e-02
## 8357     7  -1.3    22 -1.802852e-01 -0.8713820244     -1.692291e-02
## 8358    23  -4.8   -28  9.319048e+00  1.5904761905      8.881081e-02
## 8359    -8  -1.8    25  1.637396e-01 -1.5291816857     -6.408310e-02
## 8360     8  -6.2    68  9.787267e-01  0.4224265565     -7.037478e-02
## 8361     2   1.4    79 -3.646408e+00  0.0231829574     -1.145333e-01
## 8362     5  -2.6   -37  4.098517e+00 -0.0302966102      8.745766e-02
## 8363    -5  -0.3   -20 -2.178527e+00 -1.2509255450      2.521625e-02
## 8364    -7   5.1    52 -3.190357e+00  0.6349772232     -1.203669e-02
## 8365    -7  -5.8   -23 -5.903167e-01  1.5915301541     -2.373885e-02
## 8366    -8  -0.9   -27 -2.599368e+00  0.4008381537     -1.627835e-02
```

```
## 8367     3  -3.7   23 -1.888267e-01 -2.0355438539      -9.597235e-03
## 8368     0   0.0   96  5.329167e-01  1.1913888889      -5.914079e-02
## 8369    -8   0.3  -31 -4.843028e+00 -2.2936799078       8.032938e-02
## 8370     5   0.4   74 -5.156183e-02  1.0087006133      -2.147194e-02
## 8371    -8  -0.4   11 -7.761633e+00  0.1534693878      -8.050782e-02
## 8372    13  -1.1  -34  6.033677e+00  2.2380356584      -4.128827e-02
## 8373     2  -5.7  -23 -3.411765e+00 -1.1549468844      -1.645989e-02
## 8374    -5   9.1   13 -2.320707e+00 -0.4027777778      -4.670524e-02
## 8375     5  -0.3   -9  4.970289e+00 -0.1498412698       8.468572e-02
## 8376    -3   3.8  -73  3.768476e+00 -2.0625000000       1.587236e-01
## 8377   -15   2.5   19 -6.706271e+00 -0.2121017832      -3.205162e-02
## 8378    13  -7.1  -17  6.821219e+00  3.3863284875       4.371669e-02
## 8379   -13   4.8  -28 -4.571066e+00 -2.0703499606       4.745927e-03
## 8380     5  -4.2   -9  1.305214e+00  0.2214253188       2.783542e-02
## 8381    20  -0.4   35  9.015702e+00 -0.3362336234       8.611263e-02
## 8382     0  -0.7  -47 -1.350033e+00  0.4811527339       5.788599e-02
## 8383     7   3.6  -16  7.127948e-01 -1.4864820445       9.534308e-02
## 8384     5  -3.1  -40  4.913900e+00  1.2148648649       2.918196e-03
## 8385    -5   7.0  115 -4.670479e+00  1.1944211994      -8.953289e-02
## 8386     3  -3.7    4  1.967836e+00  0.7779688094      -3.319061e-02
## 8387    -7   0.7  -14 -3.106611e+00 -0.6170863426       2.000967e-02
## 8388   -15   1.5  -34 -9.229153e-01  0.4905432596       4.302110e-02
## 8389    -3   3.0   10 -2.293600e+00 -0.3890679115      -7.600850e-02
## 8390    10   0.0  -14  2.395567e+00 -1.5591133005       1.105530e-01
## 8391    -3   5.0  -21 -3.887513e+00 -1.6950798752       6.220805e-02
## 8392    -5   5.8    2  1.490942e-01 -0.8452898551       5.945431e-02
## 8393   -21   3.4   -4 -4.594523e+00 -0.0714541307       9.692812e-04
## 8394    -5   2.1    6  1.656507e+00  0.2644255192       6.227393e-03
## 8395     0   4.8    5  4.343480e+00  0.0523782380       3.253767e-02
## 8396   -13   0.4    1 -9.386928e-01  0.3311840741       2.176995e-02
## 8397     2  -1.1   -7 -3.569599e+00 -1.1362129250       5.589890e-03
## 8398    -5   0.0   93 -3.794720e+00  0.7741003415      -4.687591e-02
## 8399     4   9.2  -25 -4.477200e+00  0.0450689290       3.904105e-02
## 8400   -10   4.3    1 -8.194444e-01 -2.3303571429       3.287853e-02
## 8401    -5   9.9    9 -2.615995e+00  0.1184371184       1.155038e-01
## 8402    -8  -5.1   59 -1.306051e+00  0.6069436698      -2.960068e-02
## 8403    -7   0.5   21 -4.005319e+00 -0.4308510638       4.331155e-02
## 8404     2  -0.5  -49  4.802469e+00 -1.8300355150       9.433413e-02
## 8405    -5   2.1   47 -2.486987e-02 -0.6338924234       3.622955e-02
## 8406    13   6.0  -14  4.579946e-01 -1.7524310537       9.949315e-03
## 8407     8   0.4   40  7.468376e+00  0.3709401709       4.965294e-02
## 8408     3   0.2  -19 -3.955894e+00 -1.0451082598       1.328153e-02
## 8409   -10   4.7  163  1.890152e+00 -0.6742424242      -7.617406e-02
## 8410    -5  -6.7   41  3.595152e+00  3.5527272727       2.537476e-02
## 8411     3  -4.3  -45  3.247985e+00 -1.1101262423       2.627005e-02
## 8412     0  -2.8   40 -6.500754e-02 -1.4736048265       1.491163e-02
## 8413    -5   2.9   39 -8.543324e-01  1.1319628647       2.909771e-02
## 8414     2  -0.8  145 -1.682692e-01  0.4062500000       2.983694e-02
## 8415    -5   9.9  102 -1.002408e+00  3.0398603083      -5.558561e-02
## 8416    12   8.4   11  8.679235e+00  0.0453551913       7.246221e-02
## 8417     5   3.2   33 -2.680572e+00  0.3650607129       7.865053e-04
## 8418   -21   0.3   29 -4.850961e+00 -0.5686841562      -8.045020e-02
## 8419     8  -2.5   17  4.648318e-02  1.6978593272      -1.123690e-01
## 8420     2  -3.1  -22  3.411929e+00  0.0100334448       1.091621e-01
## 8421    -2  -0.1  -20 -3.292441e+00 -1.6703694760       2.610525e-03
## 8422     0  -4.4 -131  3.689398e-01 -1.7057242409       2.994728e-03
## 8423     3  -2.1   94  4.714986e+00 -0.2724089636      -3.216251e-02
## 8424   -10  -3.2   81  1.146889e+00 -0.6794388378      -8.883977e-02
```

```
## 8425     0  -4.4    21 -4.869298e+00 -1.9175438596      -1.950670e-01
## 8426     5   3.5   -79  4.054054e+00 -1.0879879880       5.984961e-02
## 8427   -20   2.3    51 -6.556452e+00 -2.5491551459      -6.271514e-02
## 8428     0   0.3  -115  5.311450e+00  0.1675420168      -6.197386e-02
## 8429    -7   3.8   -60  2.594988e+00 -1.0246047481       6.784159e-02
## 8430     8  -1.0    66  7.172984e+00  1.2937569677      -1.805817e-03
## 8431   -18  -9.8    -1  1.087879e+00  1.9787878788      -1.378945e-02
## 8432     8   2.6   -20  5.259146e+00  1.4621951220       4.316725e-02
## 8433    -5   1.5    51 -9.557823e-01 -1.5816326531      -2.109373e-02
## 8434    18   1.8   -64  4.064688e+00  0.0235920852       4.359858e-02
## 8435     3  -3.7    15 -1.340517e-01 -2.0569337783      -8.172584e-03
## 8436     2   1.7   -36 -1.956955e-01  0.8074712644      -5.049168e-02
## 8437   -25  -5.9   -45 -9.574256e+00  0.3518658789      -4.663434e-02
## 8438     3   0.3   -18  4.110132e-01 -0.5686815034       4.186230e-02
## 8439    10  -2.6    24  3.886124e+00 -0.3928229665      -2.809366e-03
## 8440     5   7.7   107  1.068502e-01  0.5249098656      -5.307690e-02
## 8441     8  -5.0    75  1.224550e+00  1.3591189901       1.181624e-02
## 8442     8  -2.7  -344  6.676628e-01 -1.3665900383       7.127810e-02
## 8443    10   0.3    29  5.014095e+00  0.3777388492       9.123079e-02
## 8444     3  12.9  -130  1.410307e+00  0.3730617209       8.354573e-02
## 8445    15  -6.9   -17  6.709847e+00  2.4035512510       4.062935e-02
## 8446     3   6.6  -120  6.108597e-02 -2.4683257919       8.877766e-02
## 8447    -5   0.0    13 -1.685483e+00 -1.9038834951       1.024566e-02
## 8448     0   4.5   -15 -5.200870e-02  2.7211602611      -3.276489e-02
## 8449   -15   3.7    -3  1.006734e+00  0.5023569024      -7.683500e-03
## 8450     3   4.3    91  1.525412e+00  0.7074175824      -4.174312e-02
## 8451    -3   1.7    -6 -4.307212e-01 -0.5002773925      -2.256793e-02
## 8452     0   5.5   280  1.235169e+00  1.0220692090      -1.354971e-02
## 8453   -18   4.4   -12 -5.278783e+00 -2.6038081984      -2.879340e-02
## 8454     5   1.8     3  5.736766e+00 -1.6062291829       4.154662e-02
## 8455   -13 -12.1   135  6.944444e-03  0.8710317460      -7.589064e-02
## 8456    -8   5.1     6 -4.911310e+00 -1.4756489379      -2.333011e-02
## 8457     0  -0.6   -20 -1.749563e+00 -2.0992132867       2.882906e-03
## 8458   -23   9.0   321 -3.790799e+00  1.2800904977      -7.079642e-02
## 8459    -8   0.2   -21 -2.518455e+00 -1.3309553350       2.521878e-02
## 8460    10   0.1    76  2.888061e+00 -0.3072463768       4.236632e-02
## 8461    10 -10.5    25  8.547996e-01 -0.8404473439      -2.501501e-02
## 8462     0   1.3  -155  1.600895e+00 -0.1034903836       6.978529e-02
## 8463    -7   6.4   -13  1.411177e+00  0.2695664414       7.325546e-04
## 8464     5  -2.1   -19 -2.776513e-01 -1.5334463697       7.254238e-02
## 8465    13  -7.0    -4  3.949758e-01 -1.7861178370       1.137347e-02
## 8466    -8  12.6   104 -2.878371e+00  0.5148069804      -6.543290e-02
## 8467    -2  -2.9  -102  2.957794e+00 -0.9857343484      -5.997777e-03
## 8468    20  -4.5   -40  9.460390e+00  0.5565572963       2.026261e-02
## 8469    -2   2.0    17 -2.608964e+00 -2.1276059502      -1.479064e-02
## 8470    -3   3.8   -50 -1.039198e+00 -0.7949645711      -2.585684e-02
## 8471    10   1.3    16  4.325994e-01 -0.3686836686      -8.323312e-02
## 8472    -3   8.4     9 -6.533333e-01  0.7066666667      -8.265486e-04
## 8473     5   0.3    93 -2.908215e+00  0.2246127946       2.542635e-02
## 8474    -6   1.6    24 -3.123016e+00  0.1464509899      -8.438263e-02
## 8475    -2   7.5    81 -2.434506e+00  1.4010710667      -3.669582e-02
## 8476   -12   5.8    22 -5.397206e+00 -0.0400333611      -9.771501e-02
## 8477     6  -5.5    25 -3.674280e-03 -0.6608738828      -6.819026e-02
## 8478     0   2.9   177 -2.992014e+00 -0.5129921985      -1.734405e-02
## 8479    -5  -2.6    -7 -8.057041e-02 -1.6395721925       1.853791e-02
## 8480    18  -8.9   -19  4.499715e+00  1.5565323565       8.641044e-02
## 8481    -3  -3.9   -36 -2.496774e+00  3.0677419355       7.282077e-02
## 8482     0   5.6   -20  1.044701e+00 -0.9826964672       2.293968e-02
```

```
## 8483     -7    1.3     85 -3.308384e+00 -0.4817995910      6.222275e-02
## 8484     -3   -3.1     27  1.615235e+00 -0.5204041974      5.954752e-02
## 8485      7   -5.2     49  4.756814e+00 -0.4819469027     -5.671295e-03
## 8486     -2    6.2     -1  3.227531e-01  0.2766455062     -2.791596e-03
## 8487      5    5.3     56 -3.711712e+00 -2.5151033386      8.614883e-02
## 8488      3    6.9    -56  1.998557e-01  1.1818181818      1.010165e-01
## 8489     -2    4.3    -14 -3.615775e+00 -2.9360962567     -5.105134e-02
## 8490    -15    2.3    -63  3.245229e-01 -0.4084345341      4.935224e-02
## 8491     -8    9.2    -48  1.637415e+00 -0.0935374150      1.304137e-01
## 8492    -20   -8.7    -18 -1.230635e+01  1.2006172840     -1.281103e-01
## 8493      8   -2.3    131  2.696862e+00 -0.5095939313     -6.955588e-03
## 8494     -9   -3.3     69  3.692716e+00  1.2912288986     -2.728728e-02
## 8495      0    8.5     72  4.935968e+00 -0.0820002689     -2.068390e-02
## 8496      2    1.5     20 -5.518769e+00 -0.5932632399     -7.120909e-02
## 8497    -10    4.7    -20 -1.657319e+00  0.5919732441     -9.174859e-02
## 8498      5   -9.1     23  4.063612e+00  0.4211262136      2.940620e-03
## 8499     -2    3.2     13 -1.901518e-01  0.8721973094      1.885683e-02
## 8500      3   -4.3     94  9.171934e-01 -0.4588749752     -2.726203e-03
## 8501      0  -12.1     77  2.820238e+00  0.7184523810      1.665846e-02
## 8502     10    1.1     80  8.967033e-01 -1.0554945055      3.667200e-02
## 8503     -2    9.6     -4 -1.431313e+00  1.0626262626     -9.706884e-02
## 8504      2   -3.5    -29  3.400188e+00 -0.3025558771      4.764761e-02
## 8505     13   -5.6     52  7.216804e-01 -0.7071231715     -4.234793e-02
## 8506      0    0.9     82  3.207188e+00  0.0137420719     -3.973458e-02
## 8507    -13    6.7    131 -2.604210e+00  1.8807798482     -4.687143e-02
## 8508      5   -6.4     15  2.800239e+00  0.5326164875      3.883644e-02
## 8509      0   -9.0     52 -1.433824e-01 -0.0845588235      4.291551e-02
## 8510      2    2.7      5  1.781191e+00  0.7830935526      5.874311e-03
## 8511      2    0.1     66 -3.226985e+00  0.7681159420     -1.768211e-02
## 8512     -6    3.7     37  1.264569e+00  1.1302447552      1.227719e-02
## 8513      8    1.7     -8 -1.376854e-01  1.5623292350      6.588304e-02
## 8514    -20   -2.6    -54 -6.894085e+00  0.7597370892      1.728178e-02
## 8515    -15   12.6     -8 -4.564626e+00 -1.4888682746     -2.591317e-03
## 8516      7   -4.2     -2  3.168326e+00  0.2405010785      2.473148e-02
## 8517      0   -6.7    -80  3.436118e-01 -0.0995800177     -3.780417e-02
## 8518      3    7.2     83 -3.762688e+00  0.7467105263     -2.418260e-03
## 8519      5   -8.0     91 -8.771499e-01  0.7536855037     -1.087624e-01
## 8520      7   -2.8    -58  3.454039e+00  0.0404641930      1.055618e-01
## 8521      7   -2.7    -18 -9.271667e-01  0.2185000000     -2.257418e-02
## 8522     10   -0.2     -9  2.111289e+00 -1.2163992870     -7.780773e-03
## 8523     -3    3.4    -87 -3.545620e+00  1.3254257908      5.694223e-02
## 8524     10   -3.5     27 -2.326875e+00  0.3549755483     -4.825856e-02
## 8525    -10    0.0    -44 -2.779502e+00  0.3182936100     -3.736582e-02
## 8526     23   13.6     -5  1.001932e+01 -2.7401656315      1.640385e-02
## 8527     -5   -6.3    107 -9.190569e-01  0.5517744288     -4.292575e-02
## 8528    -13    5.8    -87 -1.802508e-02 -0.6761939886      4.992930e-02
## 8529     -5   11.6     82  9.357143e-02  0.7335714286     -8.590162e-02
## 8530      8   -0.1    -20 -1.177418e+00 -1.7240659341      4.616531e-02
## 8531      5   -1.5     27 -7.426032e-01  1.9809095903      4.879706e-02
## 8532     28    4.5     26  1.365662e+01 -0.6341435581      6.652805e-02
## 8533     -7    5.1    -13 -3.195070e+00 -2.6436632170      1.250611e-03
## 8534    -10    4.9    -29 -1.848363e+00 -0.5783201139      1.458129e-02
## 8535     30   10.8     64  1.509588e+01 -0.1342329545      7.394710e-02
## 8536    -12    3.9    -37 -2.297677e+00  0.0548580051      1.844222e-02
## 8537     -2   -1.3    -29  1.230994e+00  0.3665831245     -1.663899e-03
## 8538     -8    1.4    -31  1.917695e-01 -0.2762139918      2.735731e-02
## 8539      8   -3.4     13  5.303305e+00  0.0766187050     -4.885953e-02
## 8540     -6   -2.9     17  1.237689e+00  1.6480429293     -2.473797e-02
```

```
## 8541     -2  -5.0    -3 -1.710616e+00  1.6732385466          -3.671822e-02
## 8542     -8   1.1    27  1.564670e+00 -0.5593374177          -1.100045e-02
## 8543     -3   5.1    -9  3.863663e-01 -1.6665050256           9.032517e-02
## 8544     -2   3.0   -30  5.318049e-01 -0.3902565431           2.332297e-02
## 8545      8   7.6  -106  1.892342e+00  0.0990990991           1.846755e-02
## 8546      0  -0.8   -83 -1.945396e+00 -1.5365122682           9.739139e-02
## 8547      5  -2.0    84  6.022989e+00  2.6321839080           1.587615e-01
## 8548    -15   6.4    28 -2.829222e+00  0.5077707279           1.055525e-02
## 8549     -2   4.3   -12 -3.506185e+00 -2.9834240475          -5.867635e-02
## 8550    -20   6.9  -160 -8.691463e+00 -1.8719512195          -8.459780e-02
## 8551      0  -0.7    28 -2.347797e+00 -0.6897810219           2.541542e-03
## 8552    -10   6.1   -30 -8.617290e-01  0.0046728972           3.205390e-02
## 8553     13   3.3    43  8.896314e+00  2.0062930776          -1.228839e-02
## 8554      5   3.0   -13  8.037808e-01 -0.0156736061          -2.581954e-03
## 8555     28   1.6   -84  6.807822e+00  0.2921381775           3.656555e-02
## 8556      5   6.9   -38 -3.618022e+00 -2.6531100478          -3.742298e-02
## 8557     -8   9.2   -47  1.767897e+00 -0.0315357931           1.322120e-01
## 8558    -13   5.3   -42 -1.022229e+00 -2.1079252577          -2.956545e-02
## 8559      3   8.8   -19 -2.711086e+00 -0.4809630459          -3.189412e-02
## 8560     14   5.4   -51  3.621934e-01 -2.1645021645          -4.104756e-02
## 8561     -3   3.8   -28 -2.511111e+00 -1.8777777778           3.301741e-02
## 8562     -2   6.1   -55 -1.246162e+00  0.2717698079          -2.395749e-02
## 8563    -10   9.5   -28 -1.390056e+00 -0.0861344538           1.286374e-01
## 8564     -8   0.2   -57 -2.045866e+00  0.7034883721          -2.790194e-02
## 8565     20  -7.3   -64 -1.514170e-01 -0.1684210526           6.686376e-02
## 8566      5   7.5    25  1.969039e+00  0.5272995889           7.440184e-02
## 8567     -3  -3.2    36 -5.479570e-01  0.4346953405          -1.584461e-02
## 8568      3  -8.8    69  2.201839e+00 -0.0067945643           2.953413e-02
## 8569      0  -2.5    -3  1.590826e+00  0.4504914452          -2.400714e-02
## 8570    -18  -4.4    33  1.757576e-01  1.6606060606          -1.762272e-02
## 8571     12  -6.2   -11  6.251366e+00 -0.9462358428           5.818816e-03
## 8572     -3   2.2   -89 -4.496586e+00  0.3122065728           2.920130e-02
## 8573      0   7.3   -67 -6.729383e+00 -0.7936179030          -4.986466e-02
## 8574     -3   0.7  -107  1.495992e+00 -1.5369845918           9.576892e-02
## 8575     -3   1.0   -70 -3.432022e+00 -0.3750403393          -5.203115e-02
## 8576    -15   8.0    78  8.759259e-01 -2.4055555556           9.652687e-02
## 8577      3   1.4   -55  6.347971e+00 -0.2564971751           3.075396e-02
## 8578      0   0.1   -70 -2.495246e+00 -1.4302656082           1.953480e-02
## 8579      3   2.0    13 -4.575356e-02  0.0634266078           5.980124e-02
## 8580     -7   0.4    28 -6.746704e+00 -1.9755178908          -1.386003e-02
## 8581     33  -7.0   -72  1.361219e+01 -1.3771936403           2.011969e-01
## 8582    -15  -8.4   108 -2.932379e+00  0.9107523606          -4.877594e-02
## 8583     13  -4.8    41  4.571110e+00  2.0455262716          -2.475464e-03
## 8584      0  11.7  -130 -3.483893e+00 -1.0172259508          -9.019802e-02
## 8585      8  -8.3    50 -3.289190e-01  0.8909762858          -1.232115e-01
## 8586    -10   5.5    71  1.602941e-01  1.7766748366          -8.360132e-02
## 8587     -5  -6.8    43 -6.656562e+00 -0.9024325047          -8.472259e-02
## 8588      0   3.8    94  3.408871e+00  0.6644487932           6.588734e-02
## 8589     -3  -1.2   -39 -3.656892e-01 -0.4875294911          -3.509686e-02
## 8590      5   7.2    35  6.833566e+00 -0.0916083916           3.384180e-02
## 8591     -5   2.1   -55 -2.178234e+00  0.0776660360           1.123673e-02
## 8592      0   8.2   -83  1.339474e+00 -0.6486842105           5.886445e-03
## 8593    -14   4.4   -17  1.831667e+00  0.8883333333           5.077308e-02
## 8594     10  -3.9   -53  6.968954e+00 -0.7176236424           5.945393e-02
## 8595     15   3.6   -86  1.039542e+00 -0.7368909672           6.918617e-03
## 8596     -2   1.5    25  2.735753e+00  0.7872920252          -4.417389e-03
## 8597     10   4.6    50  1.216457e+00  0.6928288169          -3.587094e-02
## 8598      0  -6.6   -18  1.023720e-01  0.4858131881          -3.786269e-02
```

```
## 8599    -2  -1.4 -217 -2.097570e+00  1.5290965732   -3.687119e-03
## 8600    -2   5.7    9 -2.338710e+00 -0.0018433180   -1.219828e-02
## 8601    -3   9.9    9  1.601655e+00 -1.0472813239    1.811609e-01
## 8602    -3   3.7  -88 -4.241047e+00 -0.8287209302   -1.332445e-02
## 8603   -31   0.0   62 -1.405322e+01  0.6845345733   -1.328714e-01
## 8604     0  -1.4  -26  5.482392e+00 -0.3678067868    6.555323e-02
## 8605    15  -8.5   57  7.578689e-02  0.6993679051    7.847166e-04
## 8606     0  -8.3  115 -9.166667e-01  0.8502090800    7.073600e-02
## 8607    -5   2.2  -14 -3.488970e+00 -1.4941153090   -5.335113e-04
## 8608     0  -2.9   47 -4.315036e-01  0.8525479711   -1.176992e-01
## 8609     9  -0.8  -34  6.629721e+00  0.0945298150    8.044417e-02
## 8610     5  -5.0  107 -2.980371e+00  1.6932700604   -2.235437e-01
## 8611     0   3.8  -23  2.939061e+00 -1.2947599078    3.857177e-02
## 8612   -10   3.4   36 -3.495652e+00  0.9202898551   -7.338858e-02
## 8613     2  -3.4   13 -4.739229e-01  1.5650793651   -5.214732e-02
## 8614    -2   1.5  -40 -5.132937e+00  1.1754328450   -2.605593e-02
## 8615   -21  -5.9  133 -7.028011e+00  1.0112044818   -9.481314e-02
## 8616   -13   5.7 -126 -3.231000e+00 -0.7065581960    6.049479e-02
## 8617    15   3.6 -121  1.119932e+00 -1.4479166667   -1.183191e-01
## 8618    -5   0.3   39 -1.790805e+00  1.9770114943   -1.152391e-01
## 8619     8   3.5  -16  8.939629e+00 -0.3892119039    6.342986e-02
## 8620    -5   6.6  -50 -4.790837e+00 -0.4816599190    6.330960e-02
## 8621    -5  -2.4    8 -3.493428e+00 -0.2001121076    2.534460e-05
## 8622     5   2.5  -53 -4.584267e+00 -1.1805099116    9.485373e-02
## 8623    -8   5.7  -53 -7.001534e-01  0.2390546570    7.686982e-02
## 8624     0   0.7   52  1.299690e+00 -0.4952184027   -5.817024e-02
## 8625     0  -2.2   -2 -6.679105e+00 -0.8925480499   -6.050003e-02
## 8626     5  -3.2  -75 -1.027397e-01 -2.3540569020    5.645108e-02
## 8627    -8  -0.7   81 -7.315789e-01 -0.1377990431   -6.706874e-02
## 8628     2  -1.7  117  4.037662e+00 -0.0454545455    8.831183e-02
## 8629     3   3.0  -54  1.976067e+00  0.5823693658    9.564728e-02
## 8630   -18   6.0   73 -8.058321e+00  0.7722264438   -6.751801e-02
## 8631     2  -1.6   60  3.891238e+00  1.1916789036   -2.988614e-02
## 8632     2   6.1   42  1.341889e+00  0.5064249364   -3.143861e-02
## 8633    -7   0.1   82 -2.259597e-01  1.3123180845   -1.510276e-01
## 8634     0  -6.3   13  1.638469e+00  0.6457516340   -7.542320e-03
## 8635    10   1.4    6  8.330177e-01 -0.3199179293   -6.212759e-03
## 8636   -12   0.6   58 -1.649448e+00  0.5964912281   -1.142730e-01
## 8637    10   0.7  -95  9.900000e-01  2.0900000000    4.126121e-02
## 8638     0   0.8  -16  2.170294e+00  0.0784428035    1.184994e-01
## 8639     0  -1.9   20  1.960125e+00 -0.7939474855   -5.108243e-02
## 8640     0   0.1  -50 -2.424713e+00 -1.4068965517    2.008531e-02
## 8641    13  -1.6  -11  1.772464e+00  1.2862318841    3.532100e-02
## 8642     0  -4.9   72 -4.304834e-01 -1.2777737146   -5.811554e-02
## 8643    -2   0.9   -1 -5.333977e+00 -2.5321750322   -2.366636e-02
## 8644   -10   5.1   29 -5.113575e+00 -0.4391081294   -3.505205e-02
## 8645   -10  -3.7  -70  5.146447e+00  0.8388765706    9.422486e-02
## 8646    10   8.5  -24  1.109375e+00 -0.1007653061   -1.182418e-02
## 8647    -7   6.2   -9 -1.342262e+00 -0.1927083333    3.693569e-02
## 8648    -3   1.1  -84  1.216317e+00  0.4805389222    7.890571e-02
## 8649    10  -1.0   55 -2.035928e+00 -0.5868263473   -2.200297e-02
## 8650    -6   8.6  -35 -3.796491e+00 -0.2666666667    7.015120e-02
## 8651     6   5.8   49 -2.982585e+00 -0.3307533540   -6.785331e-02
## 8652     3   5.1 -153 -2.230309e+00 -0.0882032668   -1.026837e-02
## 8653     7  -9.1  -21  2.823201e+00  0.5419978518    9.813651e-02
## 8654     8   3.0  -82  5.727810e-01 -0.1552160465   -4.205838e-03
## 8655   -15   4.9 -124 -1.851038e+00  0.2703084056    2.930115e-02
## 8656     0   3.2 -140  3.737333e+00  2.2026666667    3.673384e-02
```

167

```
## 8657      2    8.0   -50  7.509592e-01 -1.7129880388     2.009804e-02
## 8658      0    0.3    -1 -6.096195e-01 -0.7164904863     3.817282e-02
## 8659      3    5.1     3  1.802928e+00 -0.4279279279     1.122331e-01
## 8660      2   -0.7   -23 -1.361111e+00 -0.2808080808    -2.729512e-02
## 8661     -5    3.5    84 -4.271053e+00  1.0427631579    -6.307670e-02
## 8662      3   -3.8    43  1.023063e+00  0.7409381663     2.324867e-02
## 8663    -10    1.3    27 -5.967073e+00  1.0614519906    -9.103618e-02
## 8664     18   -3.6   -73  4.201124e+00  0.4465338823     6.782084e-02
## 8665      5    2.1   -33  0.000000e+00  0.4745293466     7.227562e-03
## 8666     13    0.6    33  7.737003e+00  1.3440366972     2.064733e-02
## 8667     -5   -0.9    49 -2.816438e+00 -0.4083110414    -5.118228e-02
## 8668      2    0.8     2  2.501262e+00  2.2766777409     2.790469e-02
## 8669      5    1.4   -35 -7.924752e-01 -0.6278767877    -1.159178e-02
## 8670      7   -4.6   162  3.571701e+00  0.8733790999     7.461349e-03
## 8671      0    3.2   -61 -1.528333e+00 -1.6783333333    -5.063371e-02
## 8672     33    6.1   -18  1.533909e+01 -0.1775757576     1.003074e-01
## 8673      0   -2.7   -40  3.334961e+00 -1.4966906348     1.047161e-01
## 8674     18   -7.5    61  1.603375e+00 -1.0083664209    -7.907364e-02
## 8675     -8   -1.8    -8  2.154316e-01 -1.5627705628    -6.080338e-02
## 8676    -11    2.7   -20 -4.788122e-01  0.3479740179    -2.091231e-02
## 8677     -7    5.2   -44  5.132857e+00 -0.5750000000    -5.412039e-02
## 8678     10    2.2   -89  5.226374e+00 -1.1296703297     4.572019e-02
## 8679      0    7.0  -104  8.256268e-01  1.0399124882     2.773993e-02
## 8680     -5    5.9   127 -1.917808e-01  0.0995612857    -2.036635e-02
## 8681      3    0.3   -82  1.476129e+00 -0.2832596956     5.675444e-02
## 8682     -2    2.2    71  7.789917e-01  0.5202571981    -2.443807e-02
## 8683      0    4.6   -68  2.154799e+00 -1.4878224974     3.785274e-02
## 8684    -12    0.3    -5  1.862875e+00 -0.2574530287     7.778155e-02
## 8685     -2    1.5    11  1.223385e+00 -1.0687799043    -1.696443e-02
## 8686     -5   -1.8    37 -4.661047e+00 -0.0031943212    -9.391302e-02
## 8687     -5   -1.0   -59 -8.798851e-01 -1.5873563218     3.989096e-02
## 8688    -15    9.9     7 -4.646945e-03  0.4456534059    -5.874704e-02
## 8689    -28    4.1   -17 -7.783348e+00 -0.7103928340     2.022622e-02
## 8690     -5   -3.7   102 -3.367823e+00 -0.8367224880    -1.047642e-01
## 8691    -28   -9.7   -17 -9.685410e+00 -0.1290834846    -7.821522e-02
## 8692     11   -4.0    41 -5.136182e-01  1.9730640854    -6.686964e-02
## 8693      2   -2.8   -47 -2.913516e+00 -0.1551499348     5.594483e-02
## 8694      2    2.7    -4  2.019268e+00  0.7092825208     1.594642e-02
## 8695     -8    0.4     4  1.805321e+00  0.0059896844     2.156664e-02
## 8696      7   -8.8   -53  5.102820e-01  0.1062115752     8.470658e-02
## 8697     -7    2.4    16 -2.856268e+00  0.0821173714    -6.317680e-02
## 8698      7   -0.3   111 -1.786300e+00  1.0199063232    -6.829432e-02
## 8699    -23   -2.5    17 -2.950861e+00 -0.2451834906    -4.143268e-02
## 8700     -3    5.8     6  2.497615e+00 -0.7839349263     4.508533e-02
## 8701      2    4.0   -15  2.432023e-01 -0.7913543163     3.973453e-02
## 8702     18   -1.9   -20  1.245817e+00  0.1171275336     8.272424e-03
## 8703     15    5.0    -1  3.704116e+00 -0.2773279352     1.279748e-02
## 8704    -11    4.1     2 -1.477783e-01 -0.7348386163     5.929784e-02
## 8705     -3    7.8    -6 -2.118201e+00  1.1990724837    -1.446871e-03
## 8706     10   -4.7    -3  3.708333e+00  2.9791666667     4.523150e-02
## 8707     -3    3.6    -1 -1.360987e+00  2.3171277787    -2.502596e-02
## 8708      2    4.8   -47 -2.292739e+00 -0.1829044118    -4.744716e-02
## 8709     10   -2.5   -48 -3.260508e+00 -0.1739980450     4.976165e-02
## 8710     -5    6.8    31 -6.304910e-01 -0.0172265289    -7.736048e-02
## 8711      8   -5.9    22 -2.918070e+00  3.9382716049    -1.290737e-01
## 8712     16    5.0   -46  4.071429e+00  0.5105820106     5.958024e-02
## 8713     30    4.2   -41  1.536623e+01 -0.2159954942     4.804444e-02
## 8714    -15    0.6    70 -4.093975e+00 -1.3338385752    -1.070578e-01
```

168

```
## 8715   -8    6.8   -21   5.836285e-01  -0.4330972058          7.359445e-02
## 8716   10  -11.2   -26  -2.245703e-01   0.2953488372          5.779543e-02
## 8717   -3   -4.1   105   1.407640e+00  -1.0338491296         -4.892152e-02
## 8718   -3    2.3    26   1.354013e+00   1.5289671578         -2.713189e-02
## 8719    2    0.7  -188   4.318885e-01   1.8247678019          3.281931e-02
## 8720    2    3.4   -21   5.164507e+00  -0.1470422535          1.116331e-01
## 8721    5    1.1    15   1.889381e+00   0.4028023599         -1.008099e-01
## 8722    0    2.8   -45   2.068836e+00  -0.0093569343          6.022824e-03
## 8723    2   -9.5    22   1.264641e+00   2.0007850526         -2.754959e-02
## 8724  -11    6.0   -44  -5.814116e+00  -0.4446191474         -1.174976e-02
## 8725    5   -1.7    66   7.323636e+00   2.3757575758          1.323943e-01
## 8726   13    3.5   -24   8.569013e+00   0.5670238257          1.061052e-01
## 8727  -10   -0.2  -118  -1.165730e+01  -2.1674157303         -1.416139e-01
## 8728    7    0.1  -222   4.302083e+00   0.0781250000         -2.301023e-02
## 8729   -4   -5.0    -5   2.861837e+00   1.0597460792         -8.629202e-02
## 8730   -5    9.6    37   4.171717e-01   0.3959595960          6.607260e-02
## 8731  -13    1.1     9  -1.541935e+00   2.2393817204         -1.874997e-02
## 8732    0   -7.5   -49  -1.015380e+00  -1.5176421752          7.244274e-02
## 8733   -5    0.8    74  -3.908861e+00  -0.0107273679          8.468136e-03
## 8734    0   -0.6   -58   1.885434e+00   1.1834733894         -4.019866e-03
## 8735    5   -4.9   103   3.503015e+00  -0.4582256675          6.907574e-02
## 8736   -8    7.1    31  -1.081600e+01  -0.3442272727         -8.438914e-02
## 8737  -18    6.9    55  -7.978507e+00  -2.3328054299         -9.129665e-02
## 8738  -18    7.5   -42  -5.109848e+00  -2.9299242424          7.050874e-02
## 8739    6    1.8    41  -3.348624e-01   1.1475288547         -9.085144e-03
## 8740  -25   -6.1   -48  -1.056490e+01  -0.1625178827          7.556666e-03
## 8741   -8    3.6   -25  -6.893879e+00  -1.0926073132         -7.866342e-02
## 8742   23   -5.3   -23   4.879268e+00  -0.8687092848          3.140400e-02
## 8743  -12   12.0    -7  -2.867241e+00   1.1870689655         -1.388280e-01
## 8744    0    8.9   -36  -1.338313e+00  -0.7563025210          5.640049e-03
## 8745   10    2.1    50   1.257444e+00  -1.4379949659          2.295052e-02
## 8746    0   -1.3    13  -4.521043e+00  -1.7590865615         -5.076270e-02
## 8747    0    0.4  -115   2.376572e+00  -2.5169282603          8.712722e-02
## 8748    3    1.0    51  -1.823710e+00   1.1336395451         -7.018442e-02
## 8749    0    1.4   -93  -1.729871e-01   2.0507546158         -1.505756e-05
## 8750    2    0.2    25  -2.495992e+00   1.2423565785         -5.488350e-02
## 8751   28   -3.9   -60   1.355548e+01  -0.7377122813          8.049319e-02
## 8752    2    4.2    30  -9.648362e-01  -0.3986733502         -3.088225e-02
## 8753    5    0.6   -23   6.550725e+00   1.5516304348          6.450567e-02
## 8754   -5    2.2    11  -8.896062e-01   0.5775952008         -2.757608e-02
## 8755  -13   -2.6    48  -5.495584e+00  -0.3586975914         -3.440319e-02
## 8756    2   -5.4   123  -3.252273e+00  -0.1159090909         -4.041710e-02
## 8757  -10    2.5    31  -5.822404e+00  -1.9741347905         -4.301625e-02
## 8758    2   -8.7    78   1.606636e+00   0.5782608696          5.233551e-02
## 8759   -3    3.3    55  -2.984268e+00   1.1518468995         -1.038890e-01
## 8760  -14    3.3   -52   1.699550e-01  -0.6165084915          4.954839e-02
## 8761  -15    6.8    74  -4.331132e+00  -0.0766400981         -8.564063e-02
## 8762  -10   -5.9   -85   6.528466e-01   0.8744893525          8.141413e-02
## 8763    5    2.4   -30  -4.612693e+00  -1.1298525888          9.057027e-02
## 8764   15    0.8    11   5.426562e+00  -0.1235940332          3.850489e-02
## 8765   11   -7.1   -64   1.191849e+01   0.3381636262          1.351065e-01
## 8766    8   -6.2    71  -8.705592e-01   3.9743589744         -1.485119e-01
## 8767   -7   -1.1   -29   2.227856e+00   0.1739680350          1.055767e-01
## 8768   18    3.9   -96   5.293637e+00   0.4993637328         -1.207722e-02
## 8769  -10  -11.8     9  -3.703535e+00  -0.5202020202         -6.465008e-02
## 8770    0    1.3   -22   1.040891e+00  -2.3215583826          8.686339e-02
## 8771   -3   -2.5   -24   2.680307e-01  -2.1010230179          5.305901e-04
## 8772  -26    1.7    36  -1.217864e+01   1.0931341386         -9.850097e-02
```

```
## 8773    -2   -2.8    -6 -2.080123e+00 -0.7518645228       -1.888672e-02
## 8774     2    6.8   -13  9.157058e-01  0.3562325525       -4.549557e-02
## 8775     5    6.3   -21  7.055591e+00  1.6076276665        9.118479e-02
## 8776     0   11.7   -36  3.649485e-01  0.3469072165       -7.424436e-02
## 8777   -18    6.4    -9 -2.943149e+00 -0.4732837055       -2.812187e-02
## 8778     2   -1.4    17  5.161600e+00 -1.2105815581        3.263766e-02
## 8779     6   -3.7     5  7.594652e+00  0.6166741573        4.323743e-02
## 8780    20   -1.2    15  3.948347e+00  0.3041724233       -4.268338e-02
## 8781     3    3.4     4 -1.348613e+00  1.9281267685       -5.913415e-02
## 8782   -18    1.4    20 -1.085971e+01  2.1892469670       -6.753737e-02
## 8783     7   -0.3   -31  6.964847e+00  1.9607113317        7.844809e-03
## 8784     3    0.3   -28  4.193070e+00  0.1090090090        1.016896e-01
## 8785    10   -1.3    24  2.250118e+00  0.3622035962       -3.527871e-02
## 8786   -16    2.2    20 -7.099309e+00 -0.3617377366       -1.015220e-01
## 8787   -18    4.8   -10 -3.249548e+00 -1.4027308898        7.917994e-02
## 8788    16    3.3    -9  6.921298e+00 -1.6651398264        6.204976e-02
## 8789    -3    5.4    63  1.492672e+00  1.1143336529       -9.308261e-02
## 8790     5    7.2   -23 -2.667555e-01 -1.1249231400        1.231648e-01
## 8791    18    2.1    11  1.102751e+01 -0.0605282916        2.617421e-02
## 8792     3   -5.8    -6 -2.478056e+00  0.7973611111       -4.702820e-02
## 8793    10   -6.1     2  2.077953e-01 -0.9941654711       -1.527257e-02
## 8794    -2   -4.6    18 -2.553623e+00 -1.5526973258       -5.414526e-02
## 8795     5   -1.7    54  7.132911e+00  2.2103499628        1.171153e-01
## 8796    18    0.5   -39  3.944976e+00  2.9585326954        1.253001e-01
## 8797     0   -2.4   -10  3.875102e+00  2.8318367347        1.201391e-01
## 8798    -2    7.2    -8 -2.845416e+00  0.3368869936        1.010572e-01
## 8799     3   -4.5   -26  3.423913e+00  0.7681159420       -6.956710e-02
## 8800     7    1.6   -67 -2.593007e+00 -0.6993006993        6.971717e-03
## 8801    -2    3.7   -11 -4.605885e+00  0.5056136276       -1.215691e-02
## 8802    -8   11.2   -34 -2.898097e+00  0.5600422833       -4.804213e-02
## 8803     3   -4.3     6 -2.750604e-01 -1.4498792271       -1.892056e-02
## 8804     0    6.5   -19  7.462721e-01 -1.3850574713        2.918269e-03
## 8805     5   -1.7   -17  5.331080e+00  0.9946369990        4.667093e-02
## 8806     3   -2.3    22 -1.029281e-01 -0.0887311446       -8.822999e-02
## 8807    -7   -3.0     4 -7.791341e-01 -0.6887278276        4.635322e-02
## 8808    23    2.9   -61  1.222735e+01 -1.3253887762        3.741540e-02
## 8809    -5   -7.2    78  3.928478e+00  0.4357301819        2.903094e-02
## 8810     8    5.6    28  1.609994e+00 -2.6062297210        4.020041e-02
## 8811    10   -3.3    16  4.577961e+00  0.5609695152       -1.043575e-02
## 8812     9   -1.7     4  1.204762e+00  0.1692640693       -8.403511e-03
## 8813   -11    8.7   -46 -4.608986e+00  0.3213772521        1.891854e-02
## 8814    -2    0.9    24  1.241737e-01  1.1759013153        7.024397e-04
## 8815    -2   -5.5   -14  4.656139e-01 -0.6675088827       -5.114845e-02
## 8816    15  -11.9    -9  5.970238e+00  4.3616071429       -3.677832e-02
## 8817    -5    2.4    78  3.161898e+00  1.7673373075       -1.201043e-02
## 8818     5   -7.0     9  1.473504e+00 -0.3188034188       -2.885939e-02
## 8819   -11   -8.1    48 -1.050216e+00 -0.3662337662       -7.716310e-03
## 8820     2   -2.6    33 -4.497248e+00 -0.0028897757       -4.306071e-02
## 8821     3   -2.9     7  5.535687e+00  2.1139922978        7.196951e-02
## 8822    -5    5.3    43  2.675115e+00  2.2368883037       -8.004394e-02
## 8823     3   -3.7    27 -1.823256e-01 -2.0320000000       -1.518946e-02
## 8824    20   -2.6   -27  8.753442e+00  3.0250000000        2.693386e-02
## 8825     7   -0.5    91  3.438515e+00 -1.3221361922        6.017298e-03
## 8826    11    1.8   -91  7.256667e+00 -2.5788888889        5.213180e-02
## 8827    -5    3.2    31 -4.303988e+00  0.4567532225       -1.761431e-02
## 8828   -12    0.9    91 -2.128003e+00 -0.3706245710       -9.751800e-02
## 8829    -5   10.9   -19  1.130517e+00 -0.5388853814       -6.877423e-02
## 8830     2   -0.3    96 -1.679707e+00  0.4227420478       -9.309662e-02
```

```
## 8831   -10    4.8    17 -3.306786e+00 -0.0371680235   -1.774337e-02
## 8832    -5   -7.3   -17  4.667829e+00  0.3793971796    1.349495e-02
## 8833     0    6.8   -39  5.304075e-01  0.3943573668    7.088299e-03
## 8834   -23   -4.2    67 -1.368865e+01  1.6554878049   -1.339581e-01
## 8835    15   -2.1    43  3.161974e+00  1.2554158173    4.927663e-02
## 8836    -2    4.3   -15  1.898009e+00  0.1685714286    1.900408e-02
## 8837   -11    5.4    83 -4.704595e+00  1.4136486486   -8.315226e-02
## 8838    23    2.4    48  9.844644e+00  1.2166797161   -5.145741e-02
## 8839    -5    4.9  -133 -2.998563e+00  2.5761494253    7.111933e-03
## 8840   -15    1.0   107 -5.392519e+00 -0.4789477579   -6.619964e-03
## 8841    -5    2.6   -74  1.279687e+00 -0.7679687500    2.727151e-02
## 8842   -13   10.5    43 -3.777287e+00  0.0702246181   -1.091182e-02
## 8843   -16   -4.4   -51 -1.647399e+00  0.0820911081    3.536475e-02
## 8844     5   -5.3   -16  3.247434e-01 -0.5712147134   -4.376122e-02
## 8845    13   -3.1    56  6.841781e-01  1.2564692352   -9.927741e-02
## 8846     2    0.5   -61  1.958492e+00 -1.8626887798    1.282475e-01
## 8847    10  -11.8    39 -4.318685e+00  2.8932735426   -1.369556e-01
## 8848    -5    1.7  -118 -5.215528e-01 -1.1300309598    5.074092e-02
## 8849    -5   -3.2    69 -5.453859e+00  0.3963987819   -9.080856e-02
## 8850    -5   11.3   -69 -1.526224e+00 -0.9306526807   -4.176345e-02
## 8851    -5    6.7    30 -2.602246e+00 -0.5150977864   -5.686691e-02
## 8852     7    1.2    -5 -4.331553e+00 -1.4944429385   -1.324997e-02
## 8853     0    0.2    46  2.569898e+00  1.8942095284   -1.863178e-02
## 8854    -3    0.2   -56 -3.206403e+00 -0.3331293158    7.068455e-02
## 8855     5   -0.9    33 -4.659933e-01 -1.8350729517    6.896017e-02
## 8856     8   -7.5   -43  1.106524e+01 -1.2215387965    1.186076e-01
## 8857     3   -8.1    26 -3.109453e-02  0.6598258706   -3.574310e-02
## 8858     5    1.3    40 -2.825158e+00  0.0205366561   -5.727515e-02
## 8859     0    1.6   -66  4.181703e+00 -0.2653985507   -1.117846e-02
## 8860   -23   -0.3     9 -7.696342e+00  0.0123754558   -8.962399e-02
## 8861   -11   -3.5    35 -5.122995e+00  0.0360467419   -8.102405e-02
## 8862    -8    7.2  -157 -8.162272e-01 -0.3608519270    9.090995e-02
## 8863    18    0.1     9  5.238252e+00  0.5531111776    7.935446e-03
## 8864    10   -1.4    -5  4.561470e+00  0.2271291209    2.653867e-02
## 8865    15   -1.9    29  1.609697e+00  0.2604040404   -8.358318e-02
## 8866     2   -5.6   -28 -3.396825e+00 -1.1507936508   -1.866504e-02
## 8867    -5   -0.2   132 -2.527387e+00  0.9997477477   -8.005172e-02
## 8868     5    0.4    35  2.188586e+00  1.2390935570   -2.415372e-02
## 8869     7    0.9   -13  4.972942e-01 -2.3606915739    1.241549e-01
## 8870   -18    9.5    81 -7.539072e+00 -0.1321530322   -1.371003e-01
## 8871     3    3.6   -20 -9.044597e-01 -0.0510826737    8.435926e-02
## 8872    10    0.4     3  8.378139e+00 -0.0050876813    3.588852e-02
## 8873     0    4.9    -4  1.997802e+00 -0.8294174059    8.686441e-02
## 8874     3   -7.7    17 -4.030013e-01  0.7153517244   -6.105542e-02
## 8875    -2    2.1     5  2.230556e+00 -0.0928145127    2.166634e-02
## 8876    -8    5.0    15 -6.781373e-01 -0.1298516221   -6.581138e-02
## 8877    11   -4.5    11  1.163681e+01  1.4786112491    1.440962e-02
## 8878    16    3.1   -16 -6.805053e-02 -0.3941789436    6.629701e-02
## 8879    -7   -8.4    16 -4.917213e+00  1.3846783800   -1.244024e-01
## 8880     2    0.0     4  2.179062e+00  0.0593279800   -9.984467e-03
## 8881     3   -0.9     1  1.897850e+00  0.8263864359   -1.598331e-02
## 8882    11    6.3   -52  1.903986e+00  0.7010869565   -9.957180e-04
## 8883    20   -4.5    -3  9.383253e+00  0.5664251208    3.162005e-02
## 8884     7   -5.7    16 -9.538177e-01  0.2296798030    4.075117e-02
## 8885   -12    7.3    -5 -2.610326e+00  0.6186987616   -8.213541e-02
## 8886    -8    5.1    28 -7.416667e-01  1.2333333333    9.642798e-02
## 8887     5    3.4    97 -4.569706e+00  1.6111764706   -1.076593e-02
## 8888    23   13.6   -42  9.860188e+00 -2.7553282182    2.242605e-02
```

171

```
## 8889    -5  -4.6     3 -1.307717e-01 -2.2800442758    -2.874258e-04
## 8890     5   0.9   -46 -1.583407e+00  0.3261253310    -3.150484e-02
## 8891    -5   2.3     3 -5.650112e-01 -0.9233109620     2.591034e-03
## 8892     0  -2.8    24  3.783027e+00 -0.5391556010     7.071387e-02
## 8893   -28   6.5    -5 -6.704880e+00 -2.2887700535    -8.408785e-02
## 8894     8   2.6   -39  5.714286e+00  0.8432900433     1.018701e-01
## 8895    -5  -1.6   -17 -6.122104e+00  0.2233549583    -5.657439e-02
## 8896    -5  -1.1   298 -5.997265e+00 -1.2714529915    -8.304075e-02
## 8897     7  -3.7   -50 -2.757440e+00 -0.2511210762     1.907382e-02
## 8898    10  -6.1   -20  1.096591e+00  2.6602272727    -5.284402e-02
## 8899     0   0.0   -21  1.526237e+00  2.7685532234    -8.173619e-02
## 8900     5  -4.9   -70  6.391651e+00  1.4630218152     4.705737e-02
## 8901    10  -0.4   -92  5.103106e+00 -1.6115072535     8.998194e-02
## 8902    18  -6.7    36  5.700015e+00 -0.2604548230     5.111935e-02
## 8903     2   1.7   -68  5.263562e-01 -0.5292148933    -4.305599e-02
## 8904   -10   7.3    77 -5.813919e+00  1.3585973528    -1.028635e-01
## 8905    -7  11.3   -26 -1.708310e-01 -2.5690623245    -8.120902e-02
## 8906    -5   0.3     8 -6.752846e-01 -1.6756097561    -1.621336e-02
## 8907    -2  -5.3    49  3.623188e-01  1.8009661836    -1.607920e-02
## 8908    21  -8.4   -24  4.918281e+00  0.9620661824    -3.098190e-02
## 8909     0  -6.1    40  4.162732e+00 -0.4056986171     1.099878e-01
## 8910     2  -7.4    48 -6.796460e+00 -0.6578171091    -3.999965e-02
## 8911   -13   2.4    75 -1.182728e+00 -2.8723404255     1.194084e-02
## 8912    -8   5.6   -70  6.057454e-01  0.6860785314    -1.465103e-02
## 8913     8   9.2    46  8.009109e-01 -1.2274994578    -4.619296e-02
## 8914    -2   2.9    19 -5.507177e-01  0.4567464115    -3.813156e-02
## 8915    -2  -5.2    28 -7.586207e-01 -0.1644562334    -5.647606e-02
## 8916    -2   7.1   -74  1.031823e+00 -3.1190539463    -4.188373e-02
## 8917    -8   5.9    20 -4.522619e+00  0.0254424017    -2.545301e-03
## 8918    -5  -5.6    62 -2.849817e+00 -0.5634920635    -7.105075e-02
## 8919     2  -1.2    -5 -1.778329e-02  1.3068651778     1.919920e-02
## 8920     0   4.4    -7  1.402459e-01 -0.3673147225    -8.473740e-02
## 8921     0  -4.0    55 -1.483377e+00 -2.9667311412    -1.548811e-02
## 8922     2  -2.9   -17 -9.946060e-02 -1.9194887430    -1.836598e-02
## 8923    -5  -1.7    -9  3.108415e+00 -2.1879125781    -3.020652e-02
## 8924    -5   0.4   -30  8.760447e-01 -1.0576575559     3.858751e-02
## 8925     8   2.1     6  2.614768e+00 -0.8408881881     5.071510e-02
## 8926    -7   1.7   -20 -5.077868e-01  0.1475055068     5.181834e-02
## 8927    -2  -5.1   -18  3.537358e+00  0.8642284267     6.279373e-02
## 8928    -3   6.5   -55  8.307821e-02 -0.5458090297    -2.022006e-02
## 8929     2  -0.5     7  9.605655e-01 -2.0647321429    -1.466227e-02
## 8930    -4   3.1    39 -3.151189e+00  0.1810796956    -8.022069e-02
## 8931     5  11.6   -44  3.154305e+00  0.2127024723     1.492835e-02
## 8932    -2  -3.6   -93  3.235140e+00 -1.7840909091    -2.461562e-02
## 8933     0   8.6   -87  5.892210e-01 -2.7920289855     1.779020e-02
## 8934     2  -0.5    -9  1.381692e+00  0.6834577114    -1.045543e-02
## 8935    10  -7.1    -8 -4.920091e-01 -0.6543378995     3.829298e-02
## 8936     5  -1.9   304 -3.347330e+00 -0.6352892102    -1.403120e-01
## 8937    10  -2.1   -16  7.114015e+00  1.8217189315    -9.523531e-03
## 8938    -7   1.8   -26  2.172172e-01  1.5145145145    -1.193973e-02
## 8939    13 -10.5  -126  2.760161e+00  1.9150905433     1.211616e-02
## 8940   -11  -4.8    61 -1.623552e+00 -1.1653796654    -7.749814e-03
## 8941    23  -0.2    12  1.298647e+01 -0.2914953751     4.614623e-02
## 8942    -5   4.3   -17  4.346622e-01  1.1743263197     3.907776e-02
## 8943    10   0.2     1  1.443857e+00  1.3180482069     4.155351e-02
## 8944   -10  -0.3     5 -2.651309e+00  0.8642078459    -3.810483e-02
## 8945    -5   6.5   -25  5.473684e+00  1.1812865497     1.172397e-01
## 8946   -21   8.4    23 -4.915414e+00 -0.9442158569     3.338724e-02
```

```
## 8947     3   1.0   57  4.544152e-01  2.0059940060  -1.278734e-01
## 8948    10   1.9   -1  3.181483e+00 -1.0136365886   4.141410e-03
## 8949     0   3.3   87 -4.088735e+00 -0.3479938272  -1.256610e-02
## 8950    13  -4.9   42  4.597681e+00  2.0247206442  -9.069257e-03
## 8951   -15   3.5  -24 -5.167891e-01 -0.0570655040   4.247289e-02
## 8952     7   3.6   20  5.191638e-01  1.1265180474   5.725106e-02
## 8953     5   0.4   33  2.184729e+00  1.2290411298  -2.675946e-02
## 8954   -16   7.4   42 -1.089123e+01  0.3142191659  -1.010923e-01
## 8955    10  -1.5  -13  3.068608e+00  0.1655192197   3.312021e-02
## 8956    -5   0.9  -32  4.771192e-01  1.8433194662  -7.240113e-02
## 8957    -6   5.2  100  1.056818e+00 -0.4669705295  -1.343581e-02
## 8958     0   2.7   37 -3.243815e+00  1.4976068825  -9.822513e-02
## 8959    11  -2.8  -28  1.150420e+00 -1.6730971129   3.057036e-02
## 8960    -8  -5.4  -16  4.055347e+00 -1.5696330991   1.882735e-02
## 8961     5   4.9  -38  5.188585e+00  1.7553404539   9.394911e-02
## 8962    13  -6.5  -55  1.770071e+00 -0.9023903288   6.330354e-02
## 8963     5   2.3   34  1.438596e+00  0.9336842105  -1.075715e-01
## 8964   -13   9.1   -8 -4.150334e+00 -0.9390003500   4.342084e-02
## 8965   -16   8.7    8 -1.044905e+01 -0.8155488822  -9.822899e-02
## 8966    10   2.1   -1  6.781779e+00 -1.5595355731   1.206745e-01
## 8967   -11   3.9  -43  5.325688e-01 -2.0125820240   6.732698e-02
## 8968    -8   2.3   33 -4.015887e+00  1.9418683378  -8.287038e-02
## 8969     0   4.1  -60  2.238562e+00  0.3089925625   1.563802e-01
## 8970   -10   4.2    5 -1.941731e-01  0.6942228500  -3.144634e-02
## 8971   -13   5.8   -7 -7.945565e+00 -0.3712365591  -2.347309e-02
## 8972    -3   3.7   -8 -1.951515e+00 -0.7706125717   3.986741e-02
## 8973     0   4.0   36 -1.421409e+00  1.8791254379  -9.738278e-02
## 8974    -8   3.0    3 -3.842596e+00 -0.4275097541  -2.351175e-02
## 8975    -3   5.8    2  2.407994e+00 -0.7866356616   4.627744e-02
## 8976    -2  -3.6   -1 -6.559535e-01  1.0955004591  -4.162795e-02
## 8977   -10   6.6  -21 -4.551020e-01  0.2500703730   1.730343e-02
## 8978    10  -6.4   31 -1.711340e+00  1.6477663230  -1.114684e-01
## 8979    13   0.0  -91  3.729004e+00  3.3610389610   5.178323e-02
## 8980     7  -1.1  -26  1.530293e+00 -0.1366436276   1.350306e-02
## 8981    10  -4.4    8  1.456734e+00  2.1899897855   3.036584e-03
## 8982     2   0.3   -9  4.761014e+00  0.6666458073   1.590141e-02
## 8983   -10   2.3  -77 -5.876087e+00  0.1913043478  -8.462183e-02
## 8984     0 -14.7   39  1.219118e+00  0.0892156863   3.016304e-02
## 8985     5   0.0  -63  3.730445e+00 -0.6618409680   3.597576e-02
## 8986     2  -2.1   95 -9.641026e-01  1.5773504274  -6.111062e-02
## 8987     3  -5.8   32  2.288082e+00  1.3427969254   1.834972e-02
## 8988     0   6.6   16  1.571414e+00  0.8405308616   6.369199e-03
## 8989   -13   3.9   40 -6.581812e+00 -1.1573576799  -8.804363e-02
## 8990     9   3.7   30  1.779293e+00  0.5695286195  -1.379564e-02
## 8991    23   3.7    3  2.177328e+00 -1.4840686275   2.322620e-02
## 8992     3  -0.4  -73 -2.120408e+00 -1.1408163265  -3.181202e-02
## 8993   -15   5.4   89 -6.893519e+00  0.4681712963  -5.579751e-02
## 8994     3   0.0  130 -2.117406e+00  2.1617405583  -2.861630e-02
## 8995     0   1.3  -56  9.434060e-02 -1.0679335163   1.805129e-02
## 8996    -7  -5.9  -30 -2.726667e+00 -2.8719047619   4.761418e-02
## 8997    -2  -0.6   12 -8.113505e-01  1.5497898056  -5.525724e-02
## 8998   -10   2.2  -63  1.361361e+00 -2.4409499358   5.038065e-02
## 8999    10  -3.0   31  3.125918e+00 -0.0007649939   4.502390e-02
## 9000    18   3.8 -133  2.194810e+00 -0.4964610718  -1.856053e-02
## 9001    -3   1.2   22  4.371249e+00  0.3597926896   5.014702e-02
## 9002     8  -8.7   65  4.939683e+00 -1.5634920635   6.801278e-02
## 9003     3  -1.6  102 -1.225619e-01  1.2657624966  -8.324988e-02
## 9004   -11   4.0   11 -3.813857e+00 -1.2284296208  -6.389836e-02
```

```
## 9005      5    3.3    -7  2.338774e+00  0.3155763795          4.849663e-02
## 9006     15    3.4    56 -1.899453e-01 -1.0030525031         -1.895453e-03
## 9007    -15    3.6   -38 -4.477145e+00 -1.0671589311         -6.352417e-02
## 9008    -10    1.6    65 -4.112713e+00  2.4115334207         -4.751134e-02
## 9009      7   -3.9    88 -3.321848e+00  1.6530448718          7.278206e-03
## 9010      7   -4.8    35  2.005047e+00  0.1892053973         -4.036082e-02
## 9011    -10    0.6   -52 -1.078095e+00  2.3538624339         -5.824799e-02
## 9012      5    5.3    76 -9.429672e-01 -0.5579961464         -8.344214e-03
## 9013     -5   -7.4    49  1.846377e+00  0.8287922705          9.669937e-02
## 9014      8   -4.6   -78  3.104803e+00 -0.1927655678         -2.807322e-02
## 9015    -10    0.2   -20  2.372794e+00 -0.4576183206          2.429507e-02
## 9016     13   -0.6    15  2.392040e+00  1.0142333089          5.226052e-02
## 9017     20   -9.5   -52  5.505863e+00  2.2807881773          6.113562e-02
## 9018     -2    0.6     3  2.908284e-01 -0.9426223092          2.673180e-02
## 9019     14   -3.2    52 -1.391344e-01  0.6693307818         -4.710147e-02
## 9020      5    4.7     8  9.540003e-01  0.6448281606         -1.115848e-02
## 9021    -13   -2.4   104 -2.501172e+00  0.3882008368         -9.451960e-02
## 9022      6    1.7    -7  8.040016e-01  0.7029428904          5.900263e-02
## 9023    -11    1.8    24 -4.318182e+00 -0.9720279720          1.024823e-02
## 9024     -8   -5.8   -27  2.205420e-01 -0.3613620217         -3.204658e-02
## 9025      5    1.7    28 -4.489666e-01 -0.8992050874          3.872337e-02
## 9026     -5    7.9    37 -4.427399e+00  0.5727139475          1.630659e-02
## 9027     -5    3.1    81 -4.034829e+00 -0.9876368774         -5.158027e-02
## 9028    -13    3.1   -50 -6.501281e-01 -1.2689119952          1.003354e-01
## 9029      2   -1.4   -36 -5.123250e+00 -1.6997268692          5.945989e-02
## 9030      5    1.8     5 -3.122343e+00  2.1727632229          2.814983e-02
## 9031      3    5.7   -15 -1.489879e+00 -1.5526315789         -3.858476e-02
## 9032      5    2.4    47 -1.246192e+00  0.6289547692         -6.485006e-02
## 9033    -18    6.4    -9 -3.016057e+00 -0.5091463415         -3.095856e-02
## 9034     -7   -2.4   -43 -1.220913e+00 -0.2975715839          6.260312e-03
## 9035     15   -7.7   -36  5.869340e+00  0.7671020079          2.280949e-02
## 9036     -2    0.8    19  5.166493e+00  0.7596869328         -7.328392e-02
## 9037     10   -4.2    39 -2.660268e+00 -0.6422754093         -3.339476e-02
## 9038    -20   -1.2   -10 -4.702332e+00  0.2439035214         -4.094727e-02
## 9039      2   -3.3   -32  5.587963e+00  0.5462962963          7.357316e-02
## 9040     -5    2.3   -45  4.561211e+00  0.7721219931         -7.312791e-03
## 9041     12    1.3     6  6.461471e+00  1.0346709293          3.955461e-02
## 9042     10    2.0    48  1.134139e+00 -1.4323820490          2.388174e-02
## 9043      8   -2.8   -38  1.615855e+00  2.5811485643         -8.170918e-02
## 9044    -12   -5.8    33 -6.250140e+00  1.2803921569         -4.806509e-02
## 9045     -2   -0.9    31  1.623656e-01 -0.5318996416          2.917171e-03
## 9046    -12    9.4    46 -8.111842e-01  0.3391861529         -1.630976e-02
## 9047      3    1.9    48  3.044643e+00  1.3750000000          2.700809e-02
## 9048      5   -3.0    86 -1.998148e+00 -0.2883639266         -3.314860e-02
## 9049      5   -3.6     1 -9.079796e-01 -0.0132427844         -6.937418e-02
## 9050      5   -8.6    66 -4.236842e+00  0.2675438596         -1.981397e-01
## 9051      7    1.3  -211  4.983791e+00  0.1945031712          8.887309e-02
## 9052    -10    2.9   -29  3.241107e-02  0.2920948617          3.661673e-02
## 9053      5   -3.5   -18 -1.599048e+00 -0.2257142857          4.522032e-02
## 9054      9   -1.4   -11 -3.693561e+00 -0.9291666667         -3.999009e-02
## 9055    -15    4.3   -29 -2.847978e+00 -0.9354799066         -5.006244e-02
## 9056      2    3.0    24  1.374576e+00  1.4685834276          2.009861e-02
## 9057      3    3.7    83  4.998076e-01  0.4268949596          4.880699e-02
## 9058     -8    6.9   -75  2.745460e+00  1.0201403396          8.716069e-04
## 9059      0    2.3   -15  4.542037e-02 -0.4118250171          1.296970e-02
## 9060     16   -0.6   -96  4.032239e+00  0.5152463431          4.649351e-02
## 9061    -18   -2.4   -71 -8.108918e+00 -0.1266167461         -6.785988e-02
## 9062      3    0.2    27  1.630166e+00  0.4769036273          1.746636e-02
```

```
## 9063    2   -2.8   -78 -2.878315e+00 -0.2537634409     4.132977e-02
## 9064   10    7.4  -140  7.887324e-01  0.5314553991    -7.261153e-02
## 9065    8    9.1   -84 -6.373093e-01 -1.4289875173    -2.520042e-02
## 9066  -10  -10.0   -33 -1.460698e+00  0.4957822086    -9.043392e-02
## 9067    0    4.3    -7 -1.428571e-01 -1.0742857143     1.014349e-01
## 9068   -7    1.3   145 -3.628165e+00  0.6706271913    -4.780294e-02
## 9069   -6   -1.1   -13  2.177979e+00 -1.0054624761     5.658981e-02
## 9070   15   -5.4   -26  3.260870e-01 -0.9124163880    -5.347246e-02
## 9071   -7    7.1   -94 -9.080628e-01 -1.2497294372     5.661350e-03
## 9072    7    0.7    14  1.779392e+00  2.3288619275     2.152921e-02
## 9073   -2   -3.9    84 -1.542413e+00  0.3550076050     2.617858e-02
## 9074   16   -5.0  -152  9.864185e+00  0.6612505142     1.468467e-01
## 9075   -3   -5.6    55 -3.165997e+00 -0.7972636816    -8.829191e-02
## 9076    8    1.7   -82  2.293295e+00 -1.4334722946     5.563069e-02
## 9077  -10    0.6  -107 -3.587217e+00  0.9222625161    -3.789820e-02
## 9078   20    9.3   -86  1.505543e+00 -2.1912416851    -3.360867e-02
## 9079  -18   -0.2    54 -2.944942e-01  0.7035851472     8.021615e-02
## 9080   -5    0.7    67  1.555024e+00  0.7099282297     2.872008e-02
## 9081    2   -2.9    56 -1.320487e+00  1.9939939940     4.321935e-03
## 9082  -13    7.9    53 -1.158463e+01 -0.4511667811    -1.370715e-01
## 9083    2   -5.9    17 -1.613442e+00 -1.0435152647    -8.480495e-02
## 9084    2    4.1    87 -3.419079e+00 -0.7873205742    -6.339426e-02
## 9085  -15    2.9   -81 -3.627765e+00  0.4197177727     5.507449e-03
## 9086    2   -2.5    36  2.056938e+00  0.4539969834     2.791617e-02
## 9087    2  -11.3    95 -1.145724e+00  0.3519604816    -3.984963e-02
## 9088  -13    2.6    56 -4.580537e+00  0.2738644670    -9.848321e-02
## 9089   12   -2.2    96  2.389278e+00 -0.0566633346     6.274679e-02
## 9090   -2    2.9     8  3.121679e+00  0.6765375325     1.201118e-02
## 9091    5   -5.7   -13  2.971496e+00  0.4980443286     5.366236e-03
## 9092   -2    9.3   -42 -2.344888e+00  1.2485008044     2.621332e-02
## 9093    0   -0.1    49 -4.275433e+00 -0.9810606061    -1.052122e-01
## 9094   -3    4.5  -134 -6.029870e+00 -0.1757575758    -1.292380e-01
## 9095   18   -7.5   -22  6.451403e+00 -0.1366496410     2.282005e-02
## 9096   13   -4.4     5  3.661488e+00  1.7024482109    -2.013507e-02
## 9097    2   -0.2     9 -6.132670e-01 -2.0245299621    -6.221155e-02
## 9098    3   -6.0    27 -2.146653e+00 -0.1560958421     2.894496e-02
## 9099    0    1.4    34 -5.409804e+00  0.2868983957    -5.522581e-02
## 9100   -8    6.7    -3  2.027626e+00  2.3171713918    -1.971298e-02
## 9101   -2    2.0   -37  4.543032e+00 -0.9907683145     2.349671e-02
## 9102   -8   -1.5    -3  7.492782e-01  0.8031889679     1.993879e-03
## 9103    8    2.7     2  2.184436e+00  0.7192606902     2.260787e-03
## 9104    5    5.0    27  5.618361e+00  0.3007775120     2.897920e-02
## 9105    5   -1.0   -51 -3.122314e+00 -0.2947276362     6.426384e-02
## 9106    2   -9.1    13 -7.208221e+00 -0.8410618978    -3.752215e-02
## 9107    0   10.7   -38  1.235897e+00  0.7811965812    -3.852403e-02
## 9108   -2   -6.0    78 -5.681560e+00 -0.6000639182    -6.020918e-02
## 9109  -16    1.8   -41  2.142576e+00 -0.7109111361     9.298958e-02
## 9110   18    0.1   -43  1.253345e+01 -1.1213012048     1.430605e-01
## 9111    2   -1.5     7  5.044963e+00 -1.1499823259     3.890627e-02
## 9112   13   -2.2     1  1.537085e+00  1.1134020619     9.675843e-03
## 9113   13    0.5   -14  4.957155e+00  0.3391329564     5.928487e-02
## 9114    0    2.1    55 -1.115036e+00  0.5744764295    -1.069929e-01
## 9115   -5    6.0    -2 -5.381485e+00  0.1217769494    -5.168491e-02
## 9116   -5   -0.6  -150 -2.405454e+00  0.5948031901    -8.251942e-02
## 9117    7   -0.7    13  3.053221e+00  0.6358543417    -2.063329e-02
## 9118   -7   -2.6   -50 -3.517002e-01 -2.4169769173     1.634403e-02
## 9119   -5   -4.4    20 -3.050144e+00 -2.3708333333     8.012918e-04
## 9120    0   -2.6    33 -5.667748e+00 -0.8077524038    -6.449499e-02
```

```
## 9121    -7   1.8    16   1.052038e+00  -0.1452586495    -5.186957e-02
## 9122     8  -3.9   -40   7.078987e+00  -1.2106953893     4.900730e-02
## 9123   -10  -6.6   -26  -1.002460e+00  -1.2640448070     2.029900e-02
## 9124     5   0.8    13   6.511775e+00   0.9159171487     4.837181e-02
## 9125     2  -8.5    67  -1.601705e+00   0.4678130511    -5.678997e-03
## 9126    13  -5.8   110   6.724036e-02   0.5456973294    -5.959491e-02
## 9127   -12  -0.3    58  -1.176512e+01   0.5618587597    -1.361609e-01
## 9128   -10  -0.2     2  -1.421592e+00  -1.3041835358    -4.164323e-02
## 9129    13  -6.8   -61   2.427134e+00  -1.2440508141     4.927339e-03
## 9130     0   4.8    56  -9.885987e-02   0.7654825757    -9.941501e-02
## 9131    -8  -5.7     8  -6.418471e-01   0.8137957463    -4.862226e-02
## 9132    -7  -5.9   -33  -2.668831e+00  -2.8603896104     5.557090e-02
## 9133     2   0.5   -38   3.486049e+00   0.9037786990     4.237670e-02
## 9134    18  -1.0    -3   1.200274e+01   0.1139802632     1.008481e-01
## 9135    31  -3.0     5   1.308397e+01   0.0455762187     4.587940e-02
## 9136     8  -0.1     6  -1.736701e+00  -1.2546002007    -1.185171e-03
## 9137   -11  -0.7    -5  -4.495791e+00  -0.7680210669     2.200728e-02
## 9138    -5  -0.4    -1  -1.562482e+00   0.5185079564     1.950408e-02
## 9139   -10  -8.3   -17  -7.956172e+00  -0.6445506135    -7.856275e-02
## 9140   -15   6.4   -15  -6.150562e+00  -1.7197041163     1.560585e-02
## 9141    -2  -1.9    44  -9.431457e-01   0.4996392496    -3.798818e-02
## 9142    -3   7.7    -7   3.135537e-01  -0.6541237113     5.226979e-02
## 9143     7   3.6   -11   4.996266e-01  -1.3552900174     8.082561e-02
## 9144     0  -3.3   -67   4.179664e+00   0.0943697479     3.844099e-02
## 9145    -3  -3.6    34  -1.373266e+00  -1.1632980859    -4.626427e-02
## 9146    -7  -0.5   -23  -4.608853e+00  -0.7643122077    -2.973927e-02
## 9147    23  -3.9   -56   1.085693e+01  -0.5226702645     1.129671e-01
## 9148    10  -0.8   -10   3.620346e+00   1.1951968666     1.456995e-02
## 9149    -2   4.6    -4   7.016261e+00   1.2203587187     1.205841e-01
## 9150     0  -6.4     8   1.530571e+00   0.6379076087    -8.515769e-05
## 9151    -2   5.9   -15   1.533707e+00   0.9762286325     8.113247e-02
## 9152     0  -7.5   -31   3.015873e+00   0.5029239766    -1.561957e-02
## 9153    20  12.4   -16   1.443075e+01   0.6220275344     1.643751e-01
## 9154    -2  -5.4    -5  -4.219948e+00  -1.9437966614     2.585639e-02
## 9155    10   4.1   -12   1.555713e+00  -0.9660122304     1.830941e-02
## 9156    -8  -3.5     8  -1.722025e+00   0.3314767165    -8.401932e-02
## 9157    18   1.8    41   4.128139e+00  -0.3652597403     9.223082e-02
## 9158    -7   5.7    -4   4.857256e+00   0.5375176554    -1.340080e-02
## 9159     2  -0.2     3  -1.504962e+00  -1.4315576342    -6.291849e-02
## 9160     2  -1.2   -19  -1.250000e+00   0.3663793103    -7.822716e-03
## 9161    -5   8.7     6  -3.294118e-01   1.1725490196    -6.082521e-02
## 9162     5  -4.8   -56   6.061953e+00   1.2488215488     7.052029e-02
## 9163    -5   1.9   -36   2.263569e+00   0.0919104991     2.973082e-02
## 9164   -25   7.1     7  -4.249476e+00  -2.9313456890     6.075332e-03
## 9165    -5  -7.2    21  -2.818605e+00   0.4060723514    -4.360112e-02
## 9166     2  -1.4   -29  -1.355945e+00  -0.9667971386     8.449048e-02
## 9167     2  -5.0    43  -2.914894e-01   0.6404255319    -4.372925e-02
## 9168   -15   7.3    41  -2.208854e+00   0.0895281441    -4.495671e-02
## 9169     0  -1.1   -23   3.656560e+00   0.1112803759     1.069394e-01
## 9170     0   3.1   -95   2.328247e+00  -0.6272383354     1.215501e-01
## 9171    -2   9.4   -34  -2.238537e+00   1.2517272664     2.096012e-02
## 9172   -20 -12.3   -38  -1.005462e+01   0.3833114969    -5.739114e-02
## 9173   -11   2.8    27  -1.244263e+00   1.6500441306    -3.813243e-02
## 9174   -13   5.2   152  -1.154869e+01  -1.5090750436    -1.988023e-01
## 9175    15  -1.1     7   1.274031e+00   0.6093992248    -3.973999e-02
## 9176    13  -0.6    16  -1.483843e+00   0.2122759773     2.590669e-02
## 9177    -3   5.5   -43  -8.958715e-02  -2.6733102840     7.179808e-02
## 9178     8  -5.8    55   6.072800e-01  -0.2938900142    -6.867420e-02
```

```
## 9179      5   -8.3  -68  5.994492e+00   0.1761693081    7.043062e-02
## 9180      2    1.5  -11 -2.092557e+00   0.0317412051   -4.890645e-02
## 9181      3   -8.5  -41  7.865387e-01  -0.7443365696    5.542269e-02
## 9182     -2    3.9   15  9.001172e-01   1.0805220993   -5.311950e-02
## 9183      7   -6.0  -59  2.064009e+00  -0.3571428571    7.056183e-02
## 9184     -5   -7.0  -16  7.021164e-01  -0.7925673973    2.387506e-02
## 9185      8    5.7   -8  5.583069e-01  -0.8217788551    4.515707e-02
## 9186      8   -5.7   -3  5.217362e+00   0.6915620978    2.028119e-02
## 9187      5   -2.1    7 -6.780270e-01   1.0278487409    2.563471e-02
## 9188     15   -6.5   12  6.118889e+00   1.6917251462   -1.705904e-02
## 9189    -10    3.6   27  1.276704e+00  -0.1705660851   -2.121084e-02
## 9190      5   -1.0    7  4.048102e+00   0.8666468666   -2.304434e-02
## 9191      0   13.2    5 -9.557507e-01   0.2902827727    3.925109e-02
## 9192     -8    3.9   37 -7.080389e+00   1.2175388601   -5.364632e-02
## 9193    -13    5.2    3 -2.088570e+00  -0.1044312994   -1.733508e-02
## 9194     -3    5.0  -13 -3.871109e+00  -1.5513646737    6.737712e-02
## 9195     -8    3.6   -8 -9.529342e+00  -0.6790906688   -3.261884e-02
## 9196      3   -1.0    1  1.892310e+00   0.7842026007   -1.207189e-02
## 9197     -8   -5.1   24  2.261905e-01  -0.4464285714    4.903470e-02
## 9198     18    5.3   -5  2.249750e+00   0.0535535536    4.871827e-02
## 9199    -16    1.3  -41 -6.738399e+00  -0.6218765936   -1.993560e-02
## 9200     -7    2.7   11  2.169545e-01  -0.7478806907   -4.885769e-02
## 9201    -11   -2.9   28 -2.989922e-01  -0.1142217245    2.168650e-02
## 9202      3    3.6    9  4.144455e+00   1.0344827586    5.074218e-02
## 9203      2    1.2   -5  3.469357e+00   0.8613861386    1.385720e-02
## 9204      3   -5.2    6  3.301329e+00  -0.4295523703    3.323289e-02
## 9205     -8    5.9  -52  2.605556e+00  -3.2111111111    6.189940e-02
## 9206     -2    5.2  -31  5.867537e-01   0.0923507463    7.052852e-03
## 9207      3    3.8  -10  4.837801e-01   0.0810023310    5.199598e-02
## 9208      5  -10.1   11 -2.474882e+00  -0.6824644550   -9.791816e-02
## 9209     13   -7.0   14  1.989189e+00   1.1219219219   -8.197382e-02
## 9210     28    7.3  -52  1.519771e+01  -0.7215511761    7.806522e-02
## 9211     -7    5.6   47 -5.681177e+00  -0.4137396980   -2.814115e-02
## 9212      7   -2.8  -17 -5.167513e+00  -0.8299635173    8.366943e-03
## 9213      3   -3.3   19  9.598997e-01  -2.0375939850    5.669925e-03
## 9214     10   -1.6   31 -2.880757e+00   1.2478796170   -9.040817e-02
## 9215    -21   -7.4   68 -8.755977e+00   3.1422333572   -4.656966e-02
## 9216      5   -8.7  -38 -1.498388e+00  -1.2691811734    1.961220e-03
## 9217     -7   -4.4   63 -6.414334e-01   0.2909294513    1.333203e-02
## 9218      2   -8.6   28  5.375000e-01   0.5541666667    7.839398e-02
## 9219     -7   -1.1   10 -5.558808e+00  -0.7772291777   -9.555218e-02
## 9220     20  -12.1    4  3.145968e+00   2.2156018186   -3.608017e-02
## 9221      0   -3.4   30  1.427011e+00   1.1526819923   -3.057630e-02
## 9222      2   -7.8  -17 -2.738727e+00  -0.4711384714   -1.106562e-02
## 9223    -23    6.8   -3 -8.252688e+00  -0.3124423963   -4.303888e-02
## 9224     -5    4.3  -18  3.312604e-01   1.1023217247    3.464750e-02
## 9225      5   -2.0  -17  1.520285e+00   0.2158960050   -1.984165e-02
## 9226      0    0.9  -43  4.018905e+00   0.1417032485    1.262559e-02
## 9227     16    5.4  -34  1.267305e+01  -0.3608428446    6.815239e-02
## 9228      2    2.6  -24 -1.768964e+00   0.5737099812   -4.264493e-02
## 9229      0    1.9   18 -1.476400e+00   0.0829616183   -3.405089e-02
## 9230    -15   12.1  -45 -7.370892e-01  -2.3192488263   -1.735349e-02
## 9231     13   -6.4   16  2.175831e+00   0.4987430870   -1.265827e-02
## 9232     23    5.1   -5  1.505857e+01   0.6366844747    9.032779e-02
## 9233      5   -5.7  -13  2.783278e+00   0.0390905757    1.009384e-02
## 9234     10   -2.9   28  3.019061e-02  -0.2860449285   -3.456270e-02
## 9235     -7    5.7  -15  1.209407e+00  -0.1203208556   -3.132831e-02
## 9236    -10  -14.4   55 -1.128320e+01   2.1617033949   -4.294811e-02
```

```
## 9237    15   -7.7   -42  5.856042e+00   0.6672256577         2.246151e-02
## 9238    30    4.7    20  1.077919e+01   0.5840957072         1.690918e-02
## 9239     0   -2.1    26 -5.810315e+00  -1.2828218244        -4.453487e-03
## 9240     2   -3.7  -278 -1.467460e+00  -0.7678571429         8.750269e-02
## 9241     0   11.6    33 -8.488964e-02   0.8105263158        -5.457287e-02
## 9242     5    4.7  -100 -5.759721e+00  -0.0279162512        -3.904749e-02
## 9243     5   -5.1   -27  5.635307e+00   0.4774489077         5.383129e-02
## 9244     2   -7.1    53 -1.153061e+00   3.0501700680         4.348247e-02
## 9245    10   -0.3   -49 -8.400000e-01  -0.2285714286         1.511236e-02
## 9246     2  -10.0   317 -1.647317e+00  -0.1387804878        -7.909515e-02
## 9247   -20  -12.2   -25 -9.999846e+00   0.3694717445        -5.005387e-02
## 9248     6   -0.3    27  1.500000e-01  -2.4500000000        -3.008917e-02
## 9249   -18    6.0    54 -7.563846e+00   0.8139043294        -7.414152e-02
## 9250     2    3.8    -2  8.336832e-01   0.9365392363        -4.672377e-02
## 9251   -15    5.4   -50 -5.332002e+00   0.0567978533         1.986740e-02
## 9252     5    1.8    38 -3.183266e+00   1.5397470641        -1.052743e-01
## 9253     3   -4.8    41  2.223154e-02  -0.6665967562        -1.802639e-02
## 9254    -8    4.3    31 -2.659420e-01  -0.9756728778         7.860117e-03
## 9255    -5   -5.1   -57  3.777882e+00   2.2543384547         7.842196e-03
## 9256   -10    1.5   -99 -1.056061e+01  -1.7916666667        -1.401510e-01
## 9257   -10    6.5   -39  9.098901e-01  -0.0126373626        -3.043275e-02
## 9258   -12   -1.3  -108 -3.604380e-01  -0.3526328052        -1.025179e-02
## 9259    -8    6.4   -67 -5.224745e-01   0.6488215294         6.641621e-03
## 9260     3   -1.9     1 -2.757860e+00  -1.2814290529        -3.526458e-02
## 9261    -8    1.9    63 -4.022813e-01  -2.0621783280         2.546793e-02
## 9262     2    3.5   128  2.841368e+00  -1.3193296602         5.650447e-03
## 9263    -5    4.5   -60  1.840389e+00  -1.0714781402         9.557081e-02
## 9264    -5   -0.6   -44  2.131308e-01  -0.7101772127         1.060705e-02
## 9265    -2   -0.7   -16 -6.154150e+00  -1.1249011858        -5.468998e-02
## 9266    -5   -0.2    45 -3.425506e+00   0.8443319838        -7.318961e-02
## 9267    13   -2.0     5  1.282609e-01   0.0152173913        -1.417662e-01
## 9268   -11    5.5     9 -5.101217e+00  -1.5216531440        -9.421355e-03
## 9269     0   -6.3   -59 -8.245676e-01  -0.6352267415         8.577362e-02
## 9270   -10    4.8  -149 -3.275238e+00  -1.1728571429        -3.425830e-02
## 9271    28   -6.5   -14  6.103175e+00   2.2148426622         7.667941e-02
## 9272     7    5.9   -14  5.026936e+00   1.4486531987         8.013866e-02
## 9273     5   -9.1    52 -1.403657e+00  -0.4760900141        -1.419888e-01
## 9274     0   -6.3   -46  4.269709e+00  -0.9543666404         5.662151e-02
## 9275    -3   -1.4  -144  3.704248e+00   2.5345471522         7.072429e-04
## 9276   -15    6.1    32 -1.117870e+01  -1.2133166063        -9.759704e-02
## 9277     0   -6.2    83 -1.370661e+00   1.0370487833        -1.508773e-01
## 9278     2   -8.0    29 -8.941257e-01   1.4637978142        -5.060560e-03
## 9279   -17   10.8    21 -1.016807e+00   1.2184873950        -9.298927e-02
## 9280    -8   -0.8   -94  4.651108e+00  -0.1317056305        -9.643745e-04
## 9281     7   -1.2     3 -4.628868e+00  -0.8923676012        -6.818696e-02
## 9282   -12    5.8    42 -3.377597e+00   0.2522928177         3.516668e-02
## 9283    12    0.4    49  2.395230e+00   0.8566682487         1.452025e-02
## 9284     0    1.3    37 -5.431674e+00   0.2839366516        -4.957384e-02
## 9285     3    9.6   -49  1.347664e+00  -2.2224299065         3.243302e-03
## 9286     0   -2.6    42  4.684444e+00   1.4266666667        -2.926010e-03
## 9287    18   -2.7   -52  5.902767e+00  -0.7603059924         6.061297e-02
## 9288    -3    1.5    52 -2.380532e+00  -1.1977450410        -5.950014e-02
## 9289     3    1.9   -42  2.657749e+00   0.0324840764         9.048866e-02
## 9290     0    7.2   -56 -1.724684e+00  -1.6099683544         7.154450e-03
## 9291     0    2.0    -7 -2.146624e+00  -0.4070317782        -4.047494e-02
## 9292    -3   -2.8    11 -2.004049e+00   1.1497975709        -7.617678e-02
## 9293   -10   -2.2  -252 -3.076923e-01  -0.3076923077         8.168053e-02
## 9294   -18   -8.1    67 -8.218941e+00   2.5624161074        -4.531837e-02
```

```
## 9295    -5   -0.1    43 -2.573402e+00 -0.3482900137        6.408560e-04
## 9296     8   -3.5   145  9.209911e-02 -0.6949509116       -1.553414e-01
## 9297    -5   -5.0    48  3.267139e-01 -1.4782174925        1.075621e-02
## 9298     5    7.8   -52  8.150400e+00 -0.4543700028        1.189919e-01
## 9299     0   -3.7    34 -1.919817e+00 -0.5694977169       -2.496576e-02
## 9300   -10    0.6   -93 -3.617416e+00  0.8662257558       -3.994451e-02
## 9301    -2    3.4    34 -2.498718e+00  0.1575973409       -6.232249e-02
## 9302    -8   -2.2   111 -3.380658e-01 -2.0790637860       -8.698729e-02
## 9303   -10    2.9   -25 -6.537256e-02  0.2757487826        3.396222e-02
## 9304     4    1.7    58 -2.925287e+00  0.3869731801       -9.456315e-02
## 9305     3    1.4   -95  3.593823e+00  0.4029720280        1.979355e-01
## 9306    13   -1.1    32  5.952349e+00  2.2132125497       -6.484956e-02
## 9307    23   -5.1    53  4.911243e+00  3.1439842209        8.293248e-02
## 9308    23    2.6   -43  1.243230e+01  0.3250972763        1.229547e-01
## 9309    -2   -3.5   -27 -2.310924e-01 -0.5036974790        1.068470e-02
## 9310    13   -4.8    35  5.284190e+00 -0.2638410687        3.345830e-02
## 9311     2   -2.6    72 -8.915918e+00  1.7710204082       -8.830388e-02
## 9312    -7    4.2   -47  6.001821e-01  0.0683060109        1.913611e-02
## 9313   -10   -2.6   -18  4.162233e+00  0.3540465116        4.173993e-02
## 9314     0    2.3    -9  9.929266e-01 -0.9518757105       -2.812689e-02
## 9315    -5    3.9    42 -4.295358e+00  0.4639579435       -9.066821e-02
## 9316    18   -9.3   -37  7.565428e+00  2.8811209440        6.006109e-02
## 9317    18   -2.4   -80  5.455055e+00 -0.7813729347        4.488927e-02
## 9318     0    0.2    40  2.455241e+00  1.8987427314       -2.130719e-02
## 9319    -3    0.9   -64 -2.410016e+00 -2.3020504732        8.461103e-02
## 9320     5   -2.3    -8  2.893359e+00  2.4195402299        1.515092e-02
## 9321     5    7.2    17  6.425761e+00 -0.2210699588        2.660442e-02
## 9322    15   -1.9    28  1.629768e+00  0.2268846591       -8.132647e-02
## 9323    -5   -6.1    38 -1.223502e+00 -0.2041772399       -1.477581e-02
## 9324   -15   -0.7   -13 -5.334305e+00  0.0040404040       -4.835906e-02
## 9325    -3   -2.6   -12  3.234721e-01 -2.0144934363       -4.948764e-03
## 9326   -12    3.6    16 -9.115776e-01 -0.2714550081       -7.885750e-03
## 9327   -13   -2.5    23 -5.458263e+00 -0.3300251512       -2.053446e-02
## 9328    26   -3.0    -8  1.182307e+01  0.0744186047        9.577436e-02
## 9329    -5    9.7    26 -4.808026e+00 -0.8306433904       -2.189750e-02
## 9330     0   -1.3    28 -1.158096e+00  2.2746160143       -9.517226e-02
## 9331    13   -6.0   -21  1.018152e+01  0.5441624365        1.028300e-01
## 9332     0   -3.3    20  1.483165e+00  1.4393939394        6.417132e-02
## 9333   -15    5.6    -9 -1.177883e+00 -2.9513860988        3.542629e-02
## 9334    10   -1.4    24  2.381259e+00  0.3794291088       -3.477449e-02
## 9335    -5   -4.0    82  9.952830e-01  1.1606019766       -3.383386e-02
## 9336    28   -4.1    15  7.677824e+00  0.6948551991       -1.461441e-02
## 9337     5   -3.2   -13  4.350276e+00 -0.3856071406        2.609101e-02
## 9338    -2    3.5    17 -2.024117e+00  1.9688368123       -2.402256e-02
## 9339    10    0.4     5  8.428239e+00 -0.0414627548        4.637522e-02
## 9340     5   -7.0    13  1.659004e+00  2.3999936322       -8.074260e-02
## 9341    -6    4.7    30 -1.115680e+01 -0.7434483080       -1.494806e-01
## 9342     0    2.1    12  4.332286e+00 -0.0091038850        7.119790e-03
## 9343   -10    4.2     4 -1.468130e-01  0.7014106583       -2.946978e-02
## 9344    -3   -0.7   -20 -8.003686e-01 -1.3781736282        5.724605e-02
## 9345    -6   -2.9    11  1.525313e+00  1.6517657781       -1.810062e-02
## 9346    -8    3.6    -7 -9.619750e+00 -0.7302392465       -3.616986e-02
## 9347     5   -0.9     7  4.064387e+00  0.9109669811       -2.595412e-02
## 9348    -2    1.3   -15 -4.143499e+00 -1.6314375280        2.910433e-02
## 9349     3   -0.9     1  1.953855e+00  0.7763921340       -1.542680e-02
## 9350   -11   -6.3    26 -5.796218e+00 -0.9464285714       -7.577338e-02
## 9351     7   -5.1   -46 -6.116071e-01  0.7857142857       -1.194293e-01
## 9352    12   -0.4     7 -1.695047e+00  0.2945754717       -7.791332e-02
```

179

```
## 9353      7 -14.3    25  1.245098e+00 -0.2936274510        1.460664e-01
## 9354    -10   0.7   -34 -4.078147e+00  0.6445107426       -8.517560e-03
## 9355      0   5.4    -8  1.743137e+00 -0.1549019608       -4.336237e-02
## 9356     -4   3.2    34 -3.187932e+00  0.1150427350       -7.008591e-02
## 9357      5   1.5    -1  1.875912e+00  2.2622122403        1.343184e-02
## 9358     -3   0.0     3  8.658491e-01 -1.7853028614        4.247488e-02
## 9359      5  -0.8    38  5.450924e-01  0.3788428649       -3.956484e-02
## 9360     -5   2.8    50 -9.231754e-01  1.9816474605       -8.318731e-02
## 9361    -15   1.9   -98 -7.350000e+00 -1.1333333333        5.003740e-02
## 9362     -3  -2.3   119  2.808442e-01  0.8766233766        2.658623e-02
## 9363     -3  -6.5    49  1.341029e+00 -0.2013240536        4.779498e-03
## 9364    -15   5.2    59 -8.026588e-01 -0.8746620870       -4.019450e-02
## 9365      0   5.4  -109  2.511603e+00  1.2126281705        2.495122e-02
## 9366    -25  -3.3   -17 -1.295323e+01 -0.0635927845       -4.059603e-02
## 9367      5  -4.6    26  1.927197e+00 -1.6684391617        4.178631e-03
## 9368     11  -7.8     5  5.011807e+00  1.8489316431       -6.008160e-03
## 9369      8  -1.0    17  3.623581e+00  0.8802017654       -2.542599e-02
## 9370    -11  -1.5   -84 -7.521467e+00 -2.5290399913        7.597253e-02
## 9371     -8  -9.0    88  1.201389e+00  1.4837962963        1.919484e-02
## 9372      3  -1.6    37  2.786380e+00  0.1795693999       -8.514651e-03
## 9373    -11   1.5   111 -8.193636e+00  0.8531818182       -4.271722e-02
## 9374     10  -8.5   -46  6.006669e+00  1.2484915846        5.742758e-02
## 9375     -5   3.4    17 -3.052536e+00 -0.0978260870       -1.962686e-02
## 9376     -2  -9.1     8 -7.221570e-01 -1.1569614589       -3.857160e-02
## 9377     18  -4.8   -24  2.110370e+00 -0.9533333333        2.138945e-02
## 9378     15   3.3     8  5.329881e+00  0.8895032632        2.204484e-03
## 9379     -4  -7.6    40  2.593537e+00 -0.4043367347       -9.472201e-02
## 9380    -28  -4.4    15 -1.316439e+01  0.7390641338       -6.876803e-02
## 9381    -23   2.3    53 -5.472312e+00 -3.6475806452       -7.436114e-02
## 9382      0   7.7   -43  5.153093e+00 -0.6860427978        1.354707e-01
## 9383      5  -4.4    56 -6.766749e-01 -0.8426799007       -1.191987e-02
## 9384     18  -1.1    58  4.357872e+00  1.9475655431       -3.645479e-02
## 9385      8   8.8   -47  6.444167e+00  0.7963316214        4.139307e-02
## 9386      0   5.6   -51 -3.272782e+00 -1.0839328537       -1.244089e-01
## 9387    -10   0.0   -51 -6.441734e+00 -1.0447154472       -1.216976e-01
## 9388      8  -6.8    60  8.754717e+00  0.5471698113        5.685621e-02
## 9389      7  -0.1    42 -3.242431e+00  0.5154584222       -8.187107e-02
## 9390      0   0.2  -115 -1.807287e-01 -0.7289968511        7.497861e-02
## 9391     -7  -8.4     8 -4.874157e+00  1.3554615181       -1.182023e-01
## 9392     18   4.8   -44  7.889453e+00  0.2766355140        3.665387e-03
## 9393      0   2.3   -65  4.457156e+00 -1.1345192419        1.507465e-01
## 9394     -9  -2.3    29  1.830508e+00 -0.1864406780       -3.258458e-03
## 9395     -8  -5.6    88 -5.535354e+00  2.7765151515       -9.253080e-02
## 9396     -2  -4.3  -142 -5.838041e-02 -0.2680477087       -2.622454e-02
## 9397     -2  -1.8    13 -4.586034e+00 -0.8055335968       -2.342008e-02
## 9398      0   1.4    30 -3.195614e+00 -1.4637844612       -4.850098e-02
## 9399      8   2.2    30 -1.365997e+00 -0.8034124372        1.999202e-02
## 9400    -28  -4.0   121 -3.653782e+00  1.5121248499       -2.754644e-02
## 9401      0   4.5    58 -2.831956e+00 -1.2828816920       -4.277926e-03
## 9402     -8  13.9   -40 -1.737855e+00  1.3550892267       -3.281650e-03
## 9403      5  -5.4   -87  2.323192e+00 -1.4366715758        3.375516e-02
## 9404     13   1.3    56  4.970524e-03  1.3569529534        4.457431e-02
## 9405      8  -0.5   -14  4.780599e+00 -0.3430262647        7.380653e-02
## 9406     13   6.4  -161 -3.224684e+00 -1.2553297801        2.878728e-02
## 9407     15  -2.5    75  4.886534e+00  0.9294448612       -2.070476e-02
## 9408      6  -0.3    43 -5.051879e+00  0.4916442049       -1.123106e-01
## 9409      0  -7.5   -40  2.988683e+00  0.5285344758       -2.017010e-02
## 9410     -5  -7.3   -43  4.616570e+00  0.3209260415        1.489158e-02
```

180

```
## 9411   -10    0.4    75 -4.550416e+00 -0.3412136077   -3.177161e-02
## 9412     5   -8.5   -37  2.811688e+00 -0.6553679409    3.813845e-02
## 9413   -15    5.7   -37  1.313743e+00 -1.7600964436   -1.623120e-02
## 9414   -13   -2.8    77 -3.720726e+00  0.3634069401   -6.868466e-02
## 9415    11   -0.3    57 -2.502711e+00  0.1658634538   -1.094809e-01
## 9416   -18    7.5    24 -6.256613e+00  0.1705128205   -1.964988e-02
## 9417     8   -4.0   -23 -2.862032e+00 -1.1885206913   -2.153353e-02
## 9418    -5    6.1   -10 -2.722905e-01 -0.5031061453    6.594218e-02
## 9419    -3    2.8    13 -6.179408e+00 -0.4128851800   -5.876912e-02
## 9420     0    9.7    16  3.456944e+00  0.3750000000    6.480848e-02
## 9421    -2    7.3    33  6.131997e-01  0.4045112782   -3.491259e-02
## 9422     3   -1.1    83  1.550388e-01 -0.2586896724    3.848092e-04
## 9423     5   -7.7    41  2.503129e-03  0.4906132666   -1.398866e-01
## 9424    12   -4.8   -53 -3.598204e+00 -0.6692725158   -1.012555e-02
## 9425    21   -4.0   -37  6.016923e+00  1.1615938368    1.251911e-02
## 9426     3    4.7   -15  7.344173e-01  0.1770551039    8.272995e-02
## 9427   -13    0.0    49 -4.833333e+00 -1.1304347826    2.006869e-02
## 9428    15    2.6    -1  5.310078e-01  1.3538205980   -2.321094e-02
## 9429     5    0.6     6  1.204620e+00  1.7285212392   -6.670761e-02
## 9430     2    2.7    69  2.929622e+00  1.0242240216   -4.951770e-02
## 9431     2   -2.5     2 -2.051405e+00 -0.1181281236   -2.044280e-02
## 9432   -13   -6.3   -16  1.823177e+00  1.0922860162   -3.068832e-02
## 9433     5   -1.3   -45 -4.372807e+00 -3.2719298246   -5.504614e-02
## 9434    -3    1.9    65 -3.375643e-01 -0.4966815995   -1.140870e-02
## 9435     3    3.8   -24  4.992683e+00 -0.0795778296   -2.294054e-03
## 9436     0    0.2    30 -2.900000e+00 -0.6642857143   -5.210454e-02
## 9437     2    7.9   -27 -2.394103e-01 -0.4138289037   -7.689206e-02
## 9438    -5   -0.4   -58 -3.048316e+00 -2.4445921986    1.117807e-01
## 9439    -2    6.4   -35 -9.060398e-01  0.1814220183    2.625800e-02
## 9440     0   -1.9   123  3.072065e+00  0.4937246964   -1.064219e-01
## 9441     8    0.5    95  5.975066e+00 -0.2686118479    3.694495e-02
## 9442    15   -9.0   -48  1.715278e+00  0.8645344288    5.485454e-02
## 9443    -7   -6.2   -13 -6.618374e+00 -1.4422954110   -2.107410e-02
## 9444    -5    2.5    29 -8.810208e-02 -1.6567425247   -5.006092e-02
## 9445     7   -7.7   -35 -4.774504e+00 -0.8056426332    3.263249e-02
## 9446     0    6.9    24  3.010761e+00  0.8076994434   -4.397899e-02
## 9447     5   -6.8   -55 -5.086343e+00 -0.9914210599    6.818751e-02
## 9448    -8    5.3   -27 -2.282467e+00  1.5482816302   -3.995639e-02
## 9449     7    2.5    86  4.368421e+00 -0.6763157895    7.322798e-02
## 9450     0   -1.3   -18 -1.720842e+00 -1.1360974838    1.063905e-02
## 9451     5    1.3    -9  2.798574e+00 -0.0780494016    3.761617e-02
## 9452    -3   -7.2    61  6.796703e-01  0.4785714286   -9.373732e-02
## 9453    -3    6.3    26 -6.271739e-01  0.8452173913   -3.927182e-02
## 9454    20    7.9   -10  9.482026e+00 -1.5392156863    2.165905e-02
## 9455     5    4.0   -54 -4.768817e+00 -0.8270609319   -2.201878e-02
## 9456    -5   -1.6    -2 -2.729782e+00 -0.0383825417    2.787283e-02
## 9457    -8    6.3   -68 -5.941753e-01  0.6523667824   -1.139890e-03
## 9458     7    0.1   -12  2.474306e+00 -0.2291666667    5.587752e-02
## 9459     0   -3.3    18  2.731348e+00 -2.3236677116    4.218563e-02
## 9460     3   -2.3   -10  9.159989e-01  0.2694114396    5.133179e-02
## 9461     5   -4.0    -1  4.543902e+00  1.6609756098    8.192301e-02
## 9462    -8   -4.7    65 -8.592797e+00 -0.0309377593   -8.651099e-02
## 9463    -2   -3.0   -11 -2.065780e+00 -0.9640737392    2.332613e-02
## 9464    -5    3.0   -43  5.590659e-01 -1.3415334665    8.718985e-03
## 9465     0   -2.8    -4  2.306504e+00 -0.7712627698   -1.625572e-02
## 9466     0    5.4   -18  2.962649e+00 -0.6969830699    2.693610e-02
## 9467    13   -5.8    30  4.984421e+00  0.0872224438    7.626680e-02
## 9468    -3    0.2   -35 -8.698113e-01  0.5369295275    1.043500e-02
```

181

```
## 9469    -10    6.1    -52   -1.096341e+00   -0.0565420824        1.924554e-02
## 9470      3    4.8     11    5.055929e+00    1.0885923826        4.987834e-02
## 9471     -3   -0.1     54   -1.288082e+00    0.9612679449       -8.160780e-02
## 9472     -5   -7.1     74    5.369692e-01   -0.6845068512       -7.161551e-02
## 9473     -7    0.1   -177   -4.790323e+00   -0.5846774194       -2.704769e-02
## 9474     -3    3.2     20   -2.860961e+00   -1.1075075075       -3.653386e-02
## 9475     -7    4.6   -138   -2.609770e+00   -0.6307471264       -1.244601e-02
## 9476     12   -4.0    -71    2.076923e-01   -0.4653846154       -1.693336e-03
## 9477     -8   -2.9      8   -5.337374e+00    0.8277777778       -1.558748e-01
## 9478      5   -3.9    -32    4.236094e+00   -0.4886027285        8.781996e-02
## 9479      0   -0.4   -262    4.964535e+00    0.8167365479        9.693152e-02
## 9480     10   -2.9     47    3.069192e+00    0.0621212121        4.242835e-02
## 9481     -6    1.8    -34    9.524710e-01    1.6835274984        6.950957e-02
## 9482     13   -6.7    -60    2.606141e+00   -1.1945349913        1.078952e-02
## 9483     -8    2.5     28   -8.487574e-01    0.6934270765        8.796592e-04
## 9484     -2   -4.2    -98    3.479213e+00    0.8128078818        6.324388e-02
## 9485    -10   -3.6    100   -3.314711e+00    2.5932324678       -7.303787e-02
## 9486     10    6.9    198    1.949457e+00   -0.3888888889        4.029928e-02
## 9487     -5    1.7    -47   -6.760000e+00   -1.8145454545       -1.000816e-01
## 9488     22    3.1   -122    3.070323e+00   -0.5412903226        1.064631e-01
## 9489     -5    2.2     67   -3.713083e+00   -0.2429221264       -7.441237e-02
## 9490     -5   -0.3   -133   -4.531611e+00    1.7234042553        1.068508e-02
## 9491      5    1.0   -137    1.023221e+00   -0.2811033108       -1.622833e-02
## 9492      5   -8.1      4   -4.738481e+00    0.9987376394       -6.671983e-03
## 9493     13    1.0    105    7.762846e+00    2.1422924901        1.138912e-01
## 9494     -2   -3.2     28    9.143376e-01    1.4076334831        2.554247e-02
## 9495    -13   -0.5     40   -3.809810e+00   -0.8914804260       -1.048282e-02
## 9496    -10    0.7     25    1.711023e+00    1.1956305859        6.351014e-02
## 9497     13   -9.3     53   -2.567180e-01   -0.0892124216       -1.682009e-01
## 9498      2   -4.0     38   -4.369091e+00   -0.4592376762       -8.133601e-02
## 9499    -13    3.5    -55   -5.077929e-02    1.6475615887        1.342689e-01
## 9500     15   -7.9     16    8.351457e-01   -0.8612440191        8.842780e-02
## 9501      3   -3.8     14    1.899910e-02   -1.9749475577       -1.264233e-02
## 9502    -15   -7.0    119   -8.332653e+00   -0.9591836735       -8.421089e-02
## 9503      5   -9.2    -25    5.938697e-02    0.2916666667        4.699559e-02
## 9504     23   -5.7   -100    6.855701e+00    3.6737588652        3.049699e-02
## 9505     -5    3.0    -72   -2.029138e+00    0.0419580420        1.357413e-02
## 9506      0    0.3      1    3.906936e-01    0.5661398888       -3.189282e-02
## 9507      5   -5.5     66    1.775893e+00    0.4377748780       -4.703049e-02
## 9508      0   -4.3    -24   -5.143115e+00   -1.1187214612       -9.903746e-02
## 9509      3   -2.3    -61   -1.291980e+00   -1.5034699116        3.420260e-02
## 9510     -8    1.4    -57   -7.257851e+00    0.2309518014       -6.613211e-02
## 9511     -2   -0.3     79   -4.542892e+00    1.0645424837       -1.681223e-01
## 9512      8   -3.1    -76    9.469704e+00   -1.4187483634        1.807399e-01
## 9513     -3    8.0      6   -9.310345e-01    1.8253898528        2.159502e-02
## 9514      8    7.1    -50   -3.462268e-01    1.4821193986       -5.709958e-02
## 9515    -12    3.8    -31   -1.870877e+00   -0.0788183184        2.460567e-02
## 9516      3    2.7      3   -6.428571e-01   -1.9682539683       -5.304067e-02
## 9517     10    5.2     15    2.254762e+00   -1.1087301587       -2.283430e-02
## 9518     25    2.6     61    7.053182e+00    2.2304545455        1.015189e-01
## 9519     -2   -5.6    147    5.217041e+00    1.2003745318        4.660010e-03
## 9520      8   -2.6   -100    3.371981e+00    0.5203864734        3.340989e-02
## 9521    -23   -5.6     75   -8.515152e+00    0.2099567100       -7.767581e-02
## 9522      8   -2.8    -38    1.443217e+00   -1.1002939343        1.474752e-02
## 9523      0    3.8    -19   -1.466010e+00   -0.7646676770        6.006798e-02
## 9524      5   -3.1     50    1.836115e+00    2.1706488087       -6.726906e-02
## 9525     -3    8.5     36   -6.319452e-01    0.7826086957       -4.797341e-02
## 9526      7   -2.2      9    1.502915e+00    0.2570281124       -1.904955e-02
```

182

```
## 9527    5   2.6 -131  2.457024e-01 -0.1075874333      6.627610e-02
## 9528  -10   2.4  -50 -2.317284e+00 -1.2255834054      1.502414e-02
## 9529   -3  -2.6  -80  3.129173e+00  1.3649521438      2.522117e-02
## 9530   -6  -1.5  -16  3.348676e+00  1.4158259773      8.172184e-02
## 9531    8  -1.5  -66 -1.208207e+00 -2.5764099966      7.724123e-03
## 9532    3   7.1  -80  1.554464e+00  0.6008928571      3.001619e-02
## 9533   -7  -8.8 -262 -2.502475e+00 -0.9688118812     -1.242208e-02
## 9534  -15   2.5   32 -6.596302e+00 -0.3185240964     -6.669516e-03
## 9535    2  -7.4  -46  4.922324e-01 -0.3063949777      2.688257e-02
## 9536    5  -1.9  -55 -1.335849e+00  0.5017693363     -4.763687e-03
## 9537   10  -8.9  111  2.015344e+00  0.7616931217     -1.097821e-01
## 9538    3  -1.6  -44  2.921717e+00 -0.8189033189      7.084381e-02
## 9539    0  -0.5  -65  2.640700e+00 -1.0406345067      1.805251e-02
## 9540  -21   3.8   51 -1.290601e+01  0.0679295545     -1.221885e-01
## 9541   23  -9.7  -23  4.647188e+00  1.7318930237      4.205619e-02
## 9542    3  -6.2   59 -2.088508e-01  0.4992097539     -1.237301e-02
## 9543   -2  -1.6    5  1.237174e-01 -0.7783978398      6.459727e-02
## 9544   -8   1.7  -99 -6.536034e+00 -1.6869299674      6.857944e-02
## 9545  -11  -1.7   68 -7.654620e+00  2.0828382838     -4.873139e-02
## 9546  -10  -8.2   12 -7.515823e-01 -2.2420886076      5.792057e-02
## 9547    5  -1.9  104 -3.019676e+00 -0.5831018519     -1.503677e-01
## 9548    2  -2.6  124  1.317063e+00  0.4372730940      5.555146e-02
## 9549    5  -6.9   47 -2.409702e+00  0.6773189118      2.572601e-03
## 9550   -2  -3.3  -44 -4.819615e+00 -0.8738461538     -8.018994e-03
## 9551  -11  -0.9  -51 -3.586346e+00 -1.8742962963      4.675429e-02
## 9552   -5   2.4   42 -5.187740e-01  0.1872817337     -6.489860e-02
## 9553   10  -0.2 -130  5.293532e+00 -0.4907960199      1.044239e-01
## 9554   -5  -1.1  -48  1.589174e+00  1.6059729744      3.847767e-02
## 9555   -2   3.0  -23  2.383239e-01 -0.3727728319      2.016339e-02
## 9556   -7  -1.0   18 -4.994771e+00 -0.4769063181     -2.693238e-02
## 9557   25   1.0    3  8.031241e+00 -0.8981772152      8.627657e-02
## 9558   -8   2.5    6  6.980392e-01 -0.4766313083     -1.984900e-02
## 9559   -3  -3.8   54 -6.617886e-01 -0.8470066519     -5.292112e-02
## 9560    5  -1.5   42 -4.469905e-01 -0.7785894165     -6.053251e-02
## 9561   18  -3.6  -15  5.542247e+00 -1.2207250363      2.056576e-02
## 9562  -23   8.5   -3 -6.225072e+00 -3.4950144509     -3.796517e-02
## 9563    3  -6.3   31 -3.811240e+00 -0.0503806538     -1.019857e-01
## 9564    6  -8.7  -63  9.629365e+00 -1.9710629860      1.217931e-01
## 9565   -5  -4.3 -120 -6.754760e-01  1.2530845392      1.007889e-01
## 9566   -2  -1.6   62  5.194139e-01  0.3701098901     -9.623302e-02
## 9567    0  -2.1  -15 -4.390667e+00 -0.0255863050     -9.127540e-03
## 9568  -10   1.6   13  1.534308e-01  1.4905886764      1.636237e-02
## 9569   13   0.9   13  3.609768e+00  0.4906719984     -1.832227e-02
## 9570    0  -4.0  -51  1.490533e+00 -0.7089761571      1.681852e-02
## 9571    5   3.5   23  3.798959e+00  0.8594424689      6.412247e-03
## 9572    5   0.7  -18  3.185749e+00 -0.6252092400      1.203462e-01
## 9573  -18   1.0    3 -1.207421e+01 -0.1136627065     -1.039896e-01
## 9574   -8   8.9 -143 -1.272086e+01 -4.4460122699      9.207164e-02
## 9575  -10   1.3  -27 -2.548296e+00 -0.4064555053      3.215502e-02
## 9576   -2  -4.0    8  6.760731e-02  0.7082472178     -3.524589e-02
## 9577    2   3.6    1  6.017078e-01 -1.0538266920      4.606288e-02
## 9578   -3  -4.3  135  2.874945e+00  2.8053215078     -1.034219e-01
## 9579    0   3.9  -11 -2.100303e+00 -0.8528596873      4.795918e-02
## 9580   11  -9.4    5  7.423797e+00  1.4512377860     -2.224734e-02
## 9581    3  -5.8   -2 -2.387821e+00  0.7462655846     -5.545845e-02
## 9582  -18  -4.5  -29 -2.783070e+00  1.9341675559     -2.076462e-02
## 9583   26   0.5 -204  1.192297e+01 -1.1552802649      8.159095e-02
## 9584    0  -3.3 -447 -3.216593e+00  0.5141082520     -1.095880e-02
```

183

```
## 9585    -5    3.2   -81 -7.373494e-01 -0.4042168675        -2.914356e-02
## 9586     5    3.7    79  2.216530e+00 -1.5836748634         9.522961e-03
## 9587     5   -9.6   -30  1.312759e+00 -0.4411483254         2.464901e-02
## 9588    -2    5.7    73  1.019672e+00 -3.0153005464        -1.122400e-01
## 9589    -3   11.2  -101 -3.656716e-01  0.4328358209        -3.027188e-02
## 9590     2   -1.0   -53 -2.176471e+00 -1.1176470588         3.803806e-02
## 9591     8    6.6    38  7.897368e+00  2.1070175439         1.340954e-01
## 9592   -15    6.6   -45  2.464945e-01 -0.9520295203         8.627438e-02
## 9593    10   -5.5   -22  2.863430e+00  1.7443284936         1.953584e-02
## 9594    10    1.8    53  1.365986e+01  0.7465986395         1.541425e-01
## 9595     0    4.0   -20 -1.579357e+00 -0.6786757546        -1.046197e-01
## 9596     8   -1.2   -76  2.867934e+00  1.7770199977         1.016107e-01
## 9597   -10   -6.4    24  1.166667e+00  0.7222222222         2.838373e-02
## 9598    -5    6.5    49 -1.262811e+00 -0.5479452055        -5.378740e-02
## 9599   -18    7.9   -19 -9.438926e-01 -1.1605816555        -6.052653e-03
## 9600    -5   -6.9   -80  6.919298e-01  0.9792982456        -2.341511e-02
## 9601    23    0.7    97  1.227769e+00 -0.7100050277        -6.137845e-02
## 9602     5   -3.4   -46 -1.923077e-02 -0.0721153846         1.804762e-02
## 9603     7   -0.2    46  1.035141e+00 -0.5727866904         3.511996e-02
## 9604    10    1.1    36  5.792967e+00  0.8001715266         2.147102e-02
## 9605    23   -0.4   -22  5.884895e+00  2.9807552651         3.195061e-02
## 9606    25    3.6  -244  1.259449e+01  0.3575137687         7.590011e-02
## 9607    -5    9.6    18  9.680795e-03  0.4740973312         6.127215e-02
## 9608   -18    1.8   -22 -4.596167e-01 -1.2550949514         1.503382e-02
## 9609     0   -4.2    60 -2.222065e+00 -1.6846535948        -4.267788e-02
## 9610     8    8.6    81  3.709677e-01 -2.3387096774        -1.248616e-01
## 9611     3    3.8   -70  5.628325e+00  0.4650299310         1.042159e-01
## 9612    12   -9.3   -22 -4.034595e+00 -0.3252252252         5.826394e-02
## 9613     8   -1.6   -60  5.022222e+00  0.4141414141         1.663621e-01
## 9614     5   -4.9    25  1.730224e+00  1.2485242031        -2.688411e-02
## 9615    -8    0.8   -34 -3.287338e-02 -0.3015422078         8.384196e-02
## 9616     8   -3.7     6  1.132308e+01  1.4123076923         1.197735e-01
## 9617   -10    0.5   -19 -9.972986e-01  2.3336515416        -6.238429e-02
## 9618     5    1.2   -33 -2.342857e+00 -0.7000000000        -1.009098e-02
## 9619    -5   -4.8    -9 -1.552198e+00 -2.1854395604         4.920472e-02
## 9620     0    7.7   -33  2.282470e+00  2.3205179283         1.364603e-01
## 9621    -8    3.2     6 -1.969884e+00  0.3639639640        -3.173396e-02
## 9622     8   -3.8    24 -3.917375e+00 -0.0831250000        -5.060465e-02
## 9623   -15   -6.9    57 -1.091151e+01 -0.0773411371        -6.137799e-02
## 9624    -7    8.3   -16  7.810700e-01 -0.0434567901        -8.609925e-03
## 9625    -2    6.2     1  6.786399e-01  0.4415367947        -3.260126e-02
## 9626   -21   -7.4    64 -9.189877e+00  2.9843665768        -3.830322e-02
## 9627    -5    0.9    -8  5.821429e-01  1.8386904762        -6.448590e-02
## 9628     8    2.1   -82  3.572829e-01  2.0474323063         8.937215e-02
## 9629     8   -8.8    26  3.073529e+00 -0.1205242967         1.278648e-01
## 9630   -13    3.1   -26 -2.742153e+00 -0.7458380989        -1.645555e-03
## 9631     5   -3.3   -71 -2.583656e+00 -0.2955426357         4.902088e-02
## 9632     3   -5.7    64  7.636752e+00  1.2039072039         6.260898e-02
## 9633    13    2.7    25  4.672569e+00  1.3772133527         5.502768e-03
## 9634   -33   -6.1    67 -1.495883e+01  0.3222247498        -1.084869e-01
## 9635    -5   11.6   -33 -1.242815e+00 -1.3293795620        -7.284248e-02
## 9636    15    8.6   -92  1.361181e+00 -1.9130801688        -6.581752e-02
## 9637    28    2.0   -12  1.129204e+01 -1.1410992617         7.384815e-02
## 9638    -7   -0.5   -88 -2.483385e+00 -0.2331256490        -4.331248e-02
## 9639    -2   -4.0    11  2.494824e+00  1.1350430775        -7.410179e-03
## 9640    -8   -6.5   -45 -7.738505e+00 -2.1395441823        -1.134123e-01
## 9641     0   -1.4   -62 -3.817217e+00  0.5318396226         4.905846e-02
## 9642   -15    2.8    47 -7.429522e+00 -3.0304086158        -5.212642e-02
```

```
## 9643      5    4.5  -72 -8.291667e-01 -0.7000000000      2.315156e-02
## 9644      5    4.8  -25  1.204422e+00 -1.1651860825     -1.101053e-02
## 9645      5    1.3  -37 -1.276190e+00 -0.2126984127     -6.765237e-02
## 9646     11   -1.8   29  4.497483e+00  0.9062251656     -8.546692e-03
## 9647     -3   10.0  -44  3.209827e-01 -0.4530809505     -1.003042e-02
## 9648      2    0.8   71  1.421649e+00 -1.2402061856      1.166362e-01
## 9649      0   -1.9  -15 -3.058468e+00  1.4882392473     -6.440196e-03
## 9650      7    1.0   11  3.805011e+00  1.0936819172      1.717719e-02
## 9651     -8   -0.7   83 -3.187488e+00 -0.3800037237     -2.973170e-02
## 9652     -3   -0.2   29  1.582639e+00 -0.3701388889      2.363281e-02
## 9653      8   -1.3   85  9.726766e+00  2.3715148699      8.343522e-02
## 9654     13    0.2   13  1.090476e+00  1.3619047619     -4.941246e-02
## 9655     -3   -2.2   69  6.895388e-01  0.3397075366      7.901666e-02
## 9656    -10    3.4  121 -1.101531e+00 -1.6905721193     -4.654314e-02
## 9657     23    3.1   39  5.157005e+00  2.3804347826      8.477337e-02
## 9658     -8    8.9  -70 -3.131860e+00  1.0078678970     -5.830257e-02
## 9659      8    1.9  -76  3.000000e+00  0.9489247312      1.712545e-01
## 9660      3    0.4   73  4.187436e+00 -0.3508682329      6.464105e-02
## 9661     -8    5.7  -46 -6.402791e-01  0.3268282447      6.868880e-02
## 9662      0   11.5 -119  5.647993e-01  0.3022575251      1.000019e-01
## 9663     -5   -0.1   42 -2.574987e+00 -0.3728106756      2.415799e-03
## 9664     12   -2.0   19  2.478495e+00  0.2867383513      7.818733e-02
## 9665     -8    1.1  -71 -5.325959e+00  0.2184750733      2.229820e-02
## 9666     33    6.1  -73  1.494178e+01 -0.2949561404      1.140511e-01
## 9667     -8    1.9  -18 -4.861898e+00  0.4709753231     -1.849268e-02
## 9668    -23    2.0  -27 -2.455902e+00 -3.1089514307     -5.225382e-02
## 9669      0   -2.3   90 -2.852107e+00 -2.1884331884      1.615014e-03
## 9670    -10    4.4   47 -1.240954e+00  0.7931743421     -4.920812e-02
## 9671      5  -10.2   35 -2.629847e-01 -0.8206815511     -4.099188e-02
## 9672     -8    1.5  -57 -4.487033e+00 -2.6472476481      4.043170e-02
## 9673    -30   -5.9  104 -1.317097e+01 -0.0640732265     -1.028890e-01
## 9674    -20   12.2  -32 -2.688889e+00  0.7750000000     -6.523853e-02
## 9675      0   -7.1  124 -2.921245e+00  1.3919413919     -3.394393e-03
## 9676     23   -0.3  -10  1.261788e+01 -0.3102349661      5.130802e-02
## 9677     15   13.6  -95  1.078642e+01  1.0464988365      4.731028e-02
## 9678    -11   -3.7   -7 -4.510066e+00 -1.2316313823     -3.127093e-02
## 9679     -5    3.3  -74 -6.920172e-01 -0.8294042914      1.967373e-02
## 9680     -5   -7.4   27  1.060835e+00  0.7085218703      9.031657e-02
## 9681      0    4.0  -15 -2.017222e+00  0.3053472222     -1.899466e-02
## 9682      3    7.4  -15 -1.510970e+00 -0.2356120827     -5.289858e-02
## 9683      7   -4.8  134  4.446218e-01 -1.6054899457     -1.779736e-01
## 9684     15   -1.9   37  1.600230e+00  0.2139568947     -8.384963e-02
## 9685     16    1.1   26  9.080645e+00  0.8466461854      5.017773e-02
## 9686      0   -2.5  -62  5.934365e+00 -0.8039393117      4.638421e-03
## 9687     -5    1.2  -12  1.683660e+00 -0.3775118504      4.537617e-02
## 9688    -16    3.3  -22 -2.452105e+00 -1.1652436175     -3.076703e-02
## 9689     -3   -6.3    9 -1.084433e+00 -0.9335847475      4.640051e-02
## 9690     -5    1.7  -78  1.274436e+00  0.7368421053      2.493256e-01
## 9691     -5    3.8  -71  1.554854e+00 -1.1659260375      8.178153e-02
## 9692    -18    1.8  -16 -5.401085e-01 -1.2058887381      1.504825e-02
## 9693      8    3.1  -25  1.297436e+00  1.1333333333     -3.584928e-02
## 9694    -10    3.6  -20  5.294833e-01 -1.7528764244      4.300957e-02
## 9695     13   -5.1   39  2.725236e+00  1.6035141329     -5.211470e-02
## 9696     10   -3.2 -202  1.721493e+00  0.2948519949      1.925989e-02
## 9697    -20    5.7    9 -9.381956e+00 -2.8391980360     -1.398404e-01
## 9698     -8    4.3  -33 -2.251994e+00 -0.7209401709     -2.560164e-02
## 9699     21   -5.0  -30  4.944568e-01  0.1862527716      2.796205e-02
## 9700      3    0.2   48 -9.034954e-01 -0.9293313070     -1.234298e-01
```

```
## 9701     5   3.6     3 -2.618590e+00 -2.9102564103  -1.034218e-01
## 9702    13   2.6    24  2.179364e+00 -0.5685332052   1.877261e-02
## 9703    -8  -5.1   -10  8.785714e-01 -0.6826923077   7.294132e-02
## 9704     5   2.5   116  9.225023e-01  1.0658263305  -8.246899e-02
## 9705     6   5.9    34  7.157265e+00  1.5432224026  -2.046394e-02
## 9706    10   2.2    -3  3.085873e+00 -0.2001150086  -5.730443e-02
## 9707     8   7.6   800  3.291980e+00 -0.4135338346  -4.627022e-02
## 9708     8  -4.3   -21  3.710145e-01  0.8846728151  -7.582204e-03
## 9709     2   2.3  -271 -8.910891e-03 -0.3613861386   1.375518e-01
## 9710    15  -5.2   -30  1.331797e+00  1.2548387097   5.225899e-02
## 9711     3  -3.1   -31 -2.885417e+00 -2.0729166667  -7.289438e-02
## 9712    -2   1.4    49 -4.388807e+00  0.7810505646  -2.388267e-02
## 9713     3  -3.5   129  3.837276e+00 -1.0706093190  -3.584428e-02
## 9714    -3  -1.1    35 -3.153073e+00  0.9210570753  -3.183019e-02
## 9715   -10   6.4   -20  2.195770e+00 -1.3963373429   5.352579e-02
## 9716    -5   9.5    26 -6.565657e-02  0.5180375180   5.598574e-02
## 9717     8  -1.3     1  5.178410e+00  1.3555133882  -1.374650e-02
## 9718   -23   2.5   269 -1.172924e+01  0.1481902430  -1.052142e-01
## 9719   -20   4.9   -91 -5.641768e+00 -2.5970528455  -6.492333e-02
## 9720    -3   6.5    93  5.094206e-01 -0.5696698497   5.202032e-02
## 9721    19   2.4   -60  5.213025e-01  0.1139683506  -3.796814e-02
## 9722    -5  -4.9   268 -2.943386e+00  2.7439153439  -4.926992e-02
## 9723    -3  -0.8    73 -1.695133e+00 -2.1063153660  -5.614780e-03
## 9724     3   3.8    33  1.121915e+00  1.2447121034  -3.545366e-02
## 9725     3   1.1   -50  3.732013e-01 -0.8001836922   5.697965e-02
## 9726    -2   2.8    37  3.025227e+00  0.2630272953  -3.402757e-02
## 9727   -10  -1.9    15  3.807050e-01 -0.0028293135  -2.677329e-02
## 9728    23  -2.5   -33  9.697232e+00  0.4615354879   9.456807e-02
## 9729    -8  -1.5  -788 -4.093950e+00  0.7056500325  -7.955821e-03
## 9730    13   2.7   -54  2.285936e+00  0.1281068766   6.667136e-02
## 9731     8  -2.8  -143  5.222759e+00 -0.3285057471   3.750095e-02
## 9732     5  -6.4    40  3.808160e-01 -1.3661417323  -8.312964e-02
## 9733     8  -1.1   -54 -2.519930e-01  0.4860491071   1.720605e-02
## 9734    -2   2.1    24  3.356613e+00 -0.4180161943  -3.345368e-02
## 9735    10   2.3  -125  2.421245e+00  0.9471916972   1.283946e-02
## 9736    -8   5.7   -77  1.336502e+00 -0.5895995390   2.792435e-03
## 9737   -12  -0.3    40 -1.180024e+01  0.5786966292  -1.318492e-01
## 9738    -7   4.8   -32 -2.057895e+00 -0.1085020243   4.334568e-02
## 9739     0   4.9    19 -8.685604e-01 -2.4504092441  -1.266997e-01
## 9740     3  -3.8   -12  4.253394e+00  0.8807075278   2.297638e-02
## 9741    -8  -0.6    -8  1.486287e+00 -0.9322218195  -1.294210e-02
## 9742    18  -5.2   -55  6.993590e+00  0.8243364822   6.071035e-02
## 9743    -5   2.2  -809 -2.618757e+00  1.9370514243   4.224565e-02
## 9744    -2   3.1    21 -9.032350e-01  0.5672129285  -3.070913e-03
## 9745    15  -7.2    76  1.036090e+00 -1.0390025575   5.149510e-02
## 9746   -10   0.2    43 -2.286523e+00  1.1102902997   2.239350e-02
## 9747     8  -9.2    39 -1.347408e+00 -0.0893854749  -9.022835e-02
## 9748    21   7.4   -60  9.395742e+00 -2.8285776997   2.050807e-02
## 9749     5  -3.1   -54  4.066742e+00  0.6881750861   1.362846e-02
## 9750    -2  -1.4   -40 -2.256284e+00  1.4137522769   4.758661e-04
## 9751    -3  -3.8    28 -5.152322e+00  0.0609729254  -1.355438e-02
## 9752    -8  -2.2    33 -3.765257e+00 -1.0518038285  -6.946701e-02
## 9753    18  -6.4     4  3.416021e+00  0.5218346253   4.044006e-02
## 9754    31   0.0   -82  1.413548e+01 -0.8280278654   1.363747e-01
## 9755    -5  -1.9   -34 -5.809978e-01  1.3192965247  -3.533542e-04
## 9756     0   3.7   -42 -6.789509e-01 -0.2357476777   5.127544e-02
## 9757   -23  -3.5   -24 -5.809156e+00 -0.2173193602  -1.126113e-01
## 9758    -3  -4.6   -23 -3.697171e+00  0.5739392242  -1.538626e-02
```

```
## 9759     7  -5.3   -22   3.087917e+00   0.0866666667          2.830320e-02
## 9760    13  -8.0   -49   1.389205e+00  -0.2102272727         -8.164053e-02
## 9761    -3   3.9   -14  -1.936170e-01  -0.9702127660          1.759178e-02
## 9762     0   3.3    16  -1.725685e+00  -1.1485350208         -1.716803e-02
## 9763   -13  -3.3     8  -5.819658e+00  -1.0967948718         -4.846050e-02
## 9764     8   5.3    60   3.058608e-01  -0.7032967033         -1.121041e-01
## 9765     5  -3.2    -6  -4.044118e-02   1.4650735294          3.665743e-02
## 9766     2  -7.1    54  -2.411841e+00   2.8958363418         -5.807918e-02
## 9767     3   4.1    39   1.562111e+00  -0.7139940798         -1.232500e-02
## 9768    -6  -1.7    70   1.706957e+00   1.9515942029         -7.738916e-04
## 9769   -13   4.5     7  -1.326045e+00  -0.5320291523         -4.442480e-03
## 9770     0  -2.7    29  -1.210094e+00  -0.2938229755         -1.000286e-02
## 9771    13   0.2    20   1.184091e+00   1.3636363636         -2.334700e-02
## 9772    20   6.3   -72   2.952679e+00  -1.0901785714          1.903675e-03
## 9773     3   9.0     5  -8.493292e-01  -2.3851909185         -2.481848e-02
## 9774   -21   2.0    61  -5.163352e+00  -1.1060093102         -4.446860e-02
## 9775    -5  -0.1    33  -2.553889e+00  -0.3931218073         -1.691599e-03
## 9776     5   7.4   -22  -8.096477e-01  -0.7711653117         -9.076032e-02
## 9777    -5   7.4    26  -2.205195e+00  -2.7974025974          1.885563e-03
## 9778     0  -9.5   -31   2.486889e+00   0.9638137193          5.597113e-02
## 9779     5  -2.8   -28   6.511628e-01  -1.9728682171          2.185015e-02
## 9780    -2   1.1   192   1.451121e+00  -0.3256537983          3.471628e-02
## 9781   -10   5.8   -26   3.160906e+00  -0.9464669739          4.385906e-02
## 9782     7  -5.8   -10  -1.726463e+00   0.7073791349          6.557173e-02
## 9783   -25   9.4    80  -9.168472e+00   0.1221457845         -1.587375e-01
## 9784     8   0.9    60   3.594542e+00  -0.1715399610         -2.995460e-02
## 9785    18  -2.6     8   1.352304e+01   1.6470588235          1.683426e-01
## 9786     8  -2.0   -35   1.827130e+00  -0.8209263854          7.270754e-03
## 9787    -3   3.7    13  -2.160548e+00   0.5230136986         -6.141523e-02
## 9788    10  -0.8   -58  -7.600000e-01   1.2300000000         -5.282321e-02
## 9789     5   2.0   -87  -2.071429e+00   0.2172619048          7.930328e-02
## 9790   -11   4.6    25   1.818182e-01  -1.2957042957          1.708415e-02
## 9791     9   2.1  -121   5.422384e-01  -1.3906376110         -1.319378e-02
## 9792    -8 -12.2   -64   1.843478e+00   2.2028985507          5.729108e-02
## 9793    13  -3.0  -261   3.271705e+00  -0.0213250518          4.250521e-02
## 9794     0   6.3   116  -1.853946e+00  -1.0003996004         -8.506210e-02
## 9795    10  -6.5   -22  -3.516961e+00  -1.5148448043          3.907201e-02
## 9796   -15   1.1    62  -6.828685e+00  -0.6132393503         -1.550607e-01
## 9797    20   2.3    52   9.075817e+00   0.6494117647          6.137331e-02
## 9798     5  -4.2    49   2.080831e+00  -0.8266100495         -5.296590e-02
## 9799    13   0.9   -70   3.878045e+00   1.5313893654          3.881754e-02
## 9800    10  -1.2   -74   3.570217e+00  -0.6909212894          6.266510e-02
## 9801    18   3.9   -90   5.407871e+00   0.5267008662          1.746022e-02
## 9802     0   5.1   -79   2.343038e-01  -0.3386809269          1.253347e-03
## 9803     5  -6.1    31   1.088435e-02  -0.1079081633          2.055680e-02
## 9804    -2  -7.6    27  -4.170164e+00   0.4441233597         -2.729352e-02
## 9805   -18  -4.7    56  -7.251625e+00   1.4900982615          1.538861e-02
## 9806   -12 -10.2    67  -9.079504e+00   1.3571990559         -1.003644e-01
## 9807   -14   4.5    -4   1.271399e+00   1.0269076078          2.939349e-02
## 9808    11   1.7   -53   8.159420e+00  -2.0772946860          1.733214e-02
## 9809    -3  -4.8    31   1.224180e+00   1.5538223387         -2.753447e-02
## 9810   -15   7.3    53   1.428571e-01   1.3000000000         -5.659811e-02
## 9811    -7  -2.2   -80  -3.162781e+00   0.2596888804          4.598689e-02
## 9812   -10  -1.6    94  -1.747374e+00   0.3266806723         -1.844736e-02
## 9813    18  -2.4   -93   6.409730e+00  -0.4431946007          1.766121e-02
## 9814     5   2.8   -32   3.905175e+00  -2.0585387682          5.377457e-02
## 9815    20  10.9   -37   8.288485e+00  -0.8806060606         -4.390671e-02
## 9816    16  -9.9   -38   9.313462e+00  -0.9031593407          9.869721e-02
```

```
## 9817    -5    2.6    -2 -5.235527e+00 -2.3772271882   -8.858692e-03
## 9818    -7   -3.6    -3 -2.823909e+00  0.5029873040   -2.855578e-02
## 9819    20    3.1   -52  8.245498e+00 -0.9432705121    8.206146e-02
## 9820     8   -1.0   -61  6.102449e+00 -0.6212590299   -1.068891e-02
## 9821     8   -4.1    22  3.308029e+00  1.5095802920    5.625390e-03
## 9822    13   -1.5   -66  1.256035e+01 -0.8359890110    1.408061e-01
## 9823    -3    0.5    29 -6.111638e+00  0.8593411737   -6.875269e-02
## 9824     8   -7.7   -12  3.577561e+00  0.7312775330   -1.893117e-02
## 9825     2   -3.6    29 -4.521662e+00 -1.5018125631   -2.378128e-02
## 9826     0    1.4    34 -5.441755e+00  0.2798072045   -4.463714e-02
## 9827    -8    4.0   -14 -3.271885e+00 -1.4750332594   -3.793600e-04
## 9828   -15  -13.7    43 -1.093170e+01 -1.1058287203   -4.441015e-02
## 9829     5   -7.4    40  1.381761e+01  3.9276729560   -2.166236e-02
## 9830    11   -5.5    24  5.066850e+00  1.4487179487    8.842833e-03
## 9831    -5   -5.0    -4 -1.279855e+00  1.2068136932   -7.728303e-02
## 9832     2    1.4    -4 -1.951024e+00  0.0807178433   -4.689494e-02
## 9833    -2    8.7    -9  2.173913e-02 -0.4792490119   -1.132586e-02
## 9834    -2   -4.8   -78 -5.518519e+00  1.0211640212   -2.002138e-02
## 9835     2  -11.4    -7  1.776416e+00  2.2402576896    9.753369e-02
## 9836    -5    0.8    -5 -9.276596e-01  0.4179331307    2.194116e-02
## 9837     5    0.6   -28  6.949221e+00  1.8705295950    4.082454e-02
## 9838     5    6.5     9  8.562305e+00  1.4704420709    5.143619e-02
## 9839    -5   -1.7    26  1.929027e+00 -0.7874800638    3.334669e-03
## 9840    10   -2.6    -6 -1.972667e-01 -1.1585078974   -5.528711e-02
## 9841   -17    3.7    52 -6.084263e+00  0.1880942538   -1.475960e-01
## 9842    23   -0.3   -48  8.155471e+00 -0.9444455771    8.380370e-02
## 9843     3    0.6   -70 -5.078232e-01  0.8775634209   -3.641386e-02
## 9844    23   -2.4   -77  6.262821e+00  2.1639194139    9.549338e-02
## 9845     5    0.7    21  2.845047e+00  1.5102695764   -6.681174e-02
## 9846     0    1.8   -21  1.771442e+00 -1.8900058627    2.812457e-02
## 9847   -23   -7.3   -18 -1.179823e+01 -0.4321791200   -4.672584e-02
## 9848     3   -8.0    61  9.846154e+00  2.8644688645   -6.159039e-02
## 9849    13   -4.1    93  1.257166e+00  1.6053941083   -9.869452e-02
## 9850    25    1.1     2  8.029088e+00 -0.9400208788    9.185048e-02
## 9851    -3    2.6   -15 -2.997074e-01 -0.3086786283   -1.860364e-03
## 9852     5   -1.8   -42  4.768691e+00 -0.6638078902    6.105435e-02
## 9853    11    1.8   -54  8.193396e+00 -1.9593815514    1.380470e-02
## 9854    -5    6.7    35 -2.664521e+00 -0.4902678276   -4.963817e-02
## 9855    13    6.3   -79  6.807414e+00  0.7429467085    7.313195e-02
## 9856   -16    2.1    38 -3.879397e+00  1.1213021197   -5.171857e-02
## 9857     2   -3.9  -136  3.431249e-01 -1.4003424040    1.434307e-01
## 9858     7    0.9   -11 -3.591811e+00 -0.7565136476   -4.927962e-02
## 9859   -13    4.7    85 -3.582754e+00  0.5783783784   -1.237236e-02
## 9860    -5   -6.8   126 -3.646280e+00  2.0239616613   -1.763925e-01
## 9861     0   -2.0   -14 -4.375995e+00 -0.0164491328   -1.085552e-02
## 9862    20   -1.1    17  3.755256e+00  0.3080264229   -3.327384e-02
## 9863    -8    9.0    12 -2.996647e+00 -1.0301803885   -1.906644e-02
## 9864   -11    9.0    41 -8.414186e+00  0.4619762601   -1.177653e-01
## 9865    -8    4.0    20  2.935687e+00  1.0743307087    2.580332e-02
## 9866    -8    2.8   -55 -5.169840e+00 -0.9834086792    3.267938e-02
## 9867    13   -7.1    15  6.974522e-02  1.1421852033   -8.894397e-02
## 9868     2   -2.0    -6 -2.418705e+00  0.1305312692   -2.587914e-02
## 9869    15    5.0    13  3.502789e+00 -0.2901472901    2.632609e-02
## 9870     8   -9.2   -19  4.344530e+00 -0.4254535459    1.936516e-02
## 9871   -10   -0.6     4 -4.662698e+00  0.6694444444   -7.061426e-02
## 9872     0   -6.0    -7 -2.344948e+00  0.8749135613   -6.373849e-02
## 9873    -3    0.1   -22 -3.051869e+00 -1.8735166139    4.100178e-02
## 9874    -3    3.7   -12 -1.941038e+00 -0.7551591626    4.276490e-02
```

```
## 9875     10   -7.8    39   1.907646e+00  -0.7758389262        3.008672e-02
## 9876    -13    3.9    12  -8.700849e+00  -0.7283544607       -9.071923e-02
## 9877      5  -10.4    36   2.539800e+00   2.8147352832        9.317886e-02
## 9878     -5    2.8    15  -5.617470e+00   0.3158721844       -5.456925e-02
## 9879      2    3.7    22   8.383393e-01   0.9730754002       -5.094887e-02
## 9880     10   -3.4     9   1.527432e+00   2.1287821955        3.296420e-03
## 9881     30    2.3   -29   1.026111e+01  -0.1735668790        9.824842e-02
## 9882      2   -2.4     5  -1.501003e+00  -2.1278732923       -9.294489e-02
## 9883     10   -7.0     3  -2.962893e+00  -0.7722468208       -4.780534e-02
## 9884     -2    3.6  -116  -2.742325e+00   1.0427631579       -4.976763e-02
## 9885     15   -5.5     1   6.806811e+00   2.5003095975        7.837417e-02
## 9886     -2   10.9   188   9.178744e-03  -0.5178743961        4.936600e-03
## 9887     -8   -0.6   -48   8.188900e-01  -0.5754625122        1.198638e-01
## 9888      7   -3.7   -41   1.162641e+00   0.7173913043        1.455320e-02
## 9889    -10   -3.5   -28  -1.379796e+00   1.2765154645       -8.145579e-02
## 9890      3   -0.2    25  -6.173919e-01  -1.1467555332       -1.936077e-02
## 9891      8   -3.0     2   2.516322e+00  -1.6271694215        9.464630e-03
## 9892      4   -3.5    -7  -4.230370e+00  -0.6119353992       -8.099562e-02
## 9893      3    1.0    -3   5.492704e+00  -0.6544683258        6.061464e-02
## 9894     -7    1.3   -48  -2.869779e+00  -1.7216312057        1.193133e-02
## 9895      3    4.1   -40   4.775873e+00   1.0923580786       -2.428232e-02
## 9896     -8   11.6   -11  -4.468222e+00  -0.7258239306       -1.678571e-03
## 9897     -5    2.4    30  -6.149858e-01   0.1793797348       -6.533802e-02
## 9898    -18    5.4   -41  -7.551750e+00  -1.3760125053       -6.414622e-02
## 9899      7   -1.7    27   5.600000e-01  -0.1640000000       -5.288274e-02
## 9900      3   -1.5    18   3.263029e+00  -0.1535219628       -8.804878e-03
## 9901      5   -3.8   -53  -2.342753e-01  -0.3930428810        9.649548e-02
## 9902     10   -4.9   -15   2.506065e+00  -1.7848985147       -1.744764e-03
## 9903      5   -5.1   107  -1.976777e-01  -0.4018691589        3.678580e-02
## 9904    -15   -0.5   -57  -2.904420e+00  -2.6807500304       -2.466344e-02
## 9905     13   -8.2  -225   1.058763e+01   0.6536368135        9.922708e-02
## 9906      2    1.3   -42   3.954439e-01   0.3900530389       -7.025676e-02
## 9907      2    6.2    21   3.022248e+00   0.0827317843        5.534466e-02
## 9908     16   -2.1   -38   3.876767e+00  -1.0936059140        4.868299e-02
## 9909      5    1.9   -28   4.708052e+00   0.3023376623        5.991766e-02
## 9910     12    0.2   -75   1.179828e+01  -0.5765397393        1.324206e-01
## 9911    -10   -1.6    -5  -5.911727e+00  -1.7985241324        2.163638e-02
## 9912     -8    8.9   -43  -1.388589e+00  -2.2619047619        1.006599e-01
## 9913     -8    5.0    19  -9.493837e-01  -0.1480039420       -7.087019e-02
## 9914     -8    0.2   -19  -9.976558e-01  -0.3812925095        2.971318e-02
## 9915    -15    3.5   -15  -7.395657e-01  -0.0908143342        3.816632e-02
## 9916    -18    8.9   -24  -3.545095e+00  -2.4139000267       -4.340324e-02
## 9917      8   -1.0   -48   6.240741e+00  -0.4768518519       -5.207643e-03
## 9918     -2   -3.7   -22  -1.218652e+00   0.4368585453       -5.631249e-02
## 9919     16    2.0     5   9.107982e+00  -0.1907595472        4.857581e-02
## 9920      8   -5.1    20   3.725929e-01   2.2363039260       -1.184276e-01
## 9921     -5    0.1   -14  -1.277534e+00   0.1124787527        6.218982e-02
## 9922     -2   -3.3   -37   3.545584e-01  -0.8365384615        8.545282e-02
## 9923    -18    3.6    14  -1.238546e+01   0.8540829493       -1.464200e-01
## 9924      5   -5.8     6  -4.666855e-01   0.8655911552       -6.450295e-02
## 9925    -10   -0.3   -35  -3.646934e+00  -1.1938142503        6.316378e-02
## 9926    -11    9.4    -4  -7.446126e+00  -1.4432250136        2.220694e-02
## 9927     10    0.7    -3   4.620046e+00  -0.6718710117        6.884962e-02
## 9928     -6    2.1   -29  -2.198977e+00  -1.4729364226        5.477403e-03
## 9929      5    0.0     9   4.174534e+00  -1.0028166278        2.748975e-02
## 9930    -10   -2.1   106   6.672269e-01   0.4174369748        5.387460e-02
## 9931      2    5.1    11   4.537745e+00  -0.4637254902        1.172536e-01
## 9932      0   -1.3     1  -1.731254e+00  -1.0175438596        1.055554e-02
```

189

```
## 9933   -13    4.9    92 -3.750000e-02 -0.3500000000       4.834642e-02
## 9934    -2   -0.7   122 -3.483911e-01 -1.5509488449      -2.394488e-02
## 9935    20   -7.8   -11  7.173097e+00  3.3189746300       5.471498e-02
## 9936   -10   10.0   -17  4.329979e+00  0.9056603774       7.557526e-02
## 9937    -3   -9.6    -6 -1.286864e+00  2.0477074543       7.210222e-03
## 9938     6    4.1    -3  6.254079e+00  2.0128205128       5.303311e-02
## 9939     3   -3.2   -46 -1.738602e+00  0.1686930091       1.997961e-02
## 9940   -15   -0.5    60 -7.290916e+00 -0.3931146359      -9.774440e-02
## 9941   -16   -5.4   102 -9.768182e+00  2.5754545455      -1.895859e-01
## 9942    -7   -0.7   -20 -2.401211e+00 -0.8381254138      -1.475332e-03
## 9943   -10    1.5   -26 -6.481282e+00  1.1217948718      -3.866196e-02
## 9944    13    6.8  -151  5.782065e-01 -0.1719499479       2.371349e-04
## 9945    10    0.3    86  4.374743e+00  1.3249376886       5.954697e-02
## 9946     0   -6.6    18 -1.225828e+00  0.2763093966       5.379612e-02
## 9947   -13    7.2   -50 -4.534300e-01 -0.1896263246       1.899408e-02
## 9948     5   -4.2   -40 -1.122033e+00 -1.5823013416      -7.570241e-02
## 9949    18   -1.6    15  7.679919e+00  3.6758859118       4.231008e-02
## 9950    -5    3.2   -57 -1.125000e+00  0.8952702703       1.408807e-01
## 9951    -7    0.1     4  4.033386e+00  0.6466772152       2.039897e-03
## 9952    -8   -3.6    36 -1.867199e+00  0.9781015038      -4.047820e-03
## 9953     8   -1.6    66  6.669752e+00  0.0014990549       3.128549e-02
## 9954     2    4.8    92  5.493071e+00 -0.9545601031       2.319048e-02
## 9955   -10   -2.2    -7 -3.084319e+00 -0.0053989678       4.504618e-02
## 9956    20    2.1   -70  6.691252e+00  0.2650063857       5.818231e-02
## 9957   -23   -2.7    35 -1.261489e+01 -0.3739130435      -1.236919e-01
## 9958    16    0.5   -14  5.388262e+00 -0.1001953973       5.302371e-02
## 9959     0    2.1    56  4.051717e+00  0.9966172261       8.092005e-02
## 9960   -10    2.7    -4  2.363937e-01  1.0881883055       6.236237e-02
## 9961   -15    7.0    -1 -5.971588e+00 -3.2697986577       2.262499e-04
## 9962    -5   -9.4     8  7.011619e-01  2.4140471003       1.971390e-02
## 9963    -5   -6.2    14 -1.179066e+00 -0.3995169082      -2.736303e-02
## 9964    -5   -1.4    36  1.042084e+00  0.5940258878       1.744165e-02
## 9965   -10    0.6   -10 -6.205534e-01  0.9322793149       3.717651e-02
## 9966    23    0.1   -10  6.127044e+00  1.1156526400       4.108730e-02
## 9967   -10    4.4   -24 -8.121212e+00  0.7099567100      -8.188626e-02
## 9968    16   -2.0    -5  2.800017e+00 -0.1693534702       1.533871e-02
## 9969    -5    3.1     4  1.869565e+00 -2.3536356822       4.074938e-02
## 9970     7   -5.3    19  3.180690e+00  2.6063613806      -1.638949e-03
## 9971    18    5.2   -78  4.546276e+00 -0.9619386637       1.649672e-01
## 9972    -8    1.4    13 -9.257581e+00  0.6400575333      -2.763541e-02
## 9973   -23    4.2    25 -1.027575e+01 -1.2625178827      -6.931924e-02
## 9974    -8   -0.2     1  3.048730e-01 -0.7939810035       3.210902e-02
## 9975     5    5.2    91  2.946224e+00  0.1012058388       6.041862e-02
## 9976   -10    2.3   -27 -1.873123e+00 -1.0780780781       2.243830e-02
## 9977     3   -1.1   -89  7.602825e+00  0.2777408322       1.112586e-01
## 9978     2    5.4    41  1.052632e-01  2.0572082380       5.491446e-02
## 9979    11   -7.4    70  1.569782e+00  0.7396788991      -1.084239e-02
## 9980    -5    6.9   -50  3.745174e-01  0.5875160875       3.659129e-02
## 9981    -5   -0.5   -21 -1.416667e+00 -1.7916666667       3.268884e-02
## 9982     3   -8.4   196  2.017895e+00 -0.0863157895      -7.937497e-03
## 9983     0    0.1    61 -1.159103e+00  0.2807784542      -7.157473e-02
## 9984    15   -8.3    71 -1.273496e+00  1.8242055443      -5.882688e-02
## 9985     2    5.9    12  2.316170e+00  0.4932249322       5.709674e-02
## 9986     5    2.4    45  1.620333e+00  0.1772989119      -1.880710e-02
## 9987    -3    3.2    35 -4.613721e+00 -1.4170705941      -8.164163e-02
## 9988   -10   12.8   -37 -1.188492e+01 -2.3888888889       5.604023e-02
## 9989     3   -1.9    44  1.660323e+00  0.2347888332       3.863509e-02
## 9990   -10    4.7    39 -5.615865e+00 -2.2629233512      -1.237039e-01
```

190

```
## 9991     8  -1.6   34 -1.028070e-01  0.4701754386      3.896075e-02
## 9992     2   4.1  165  1.624067e+00  0.4356609574      2.619997e-02
## 9993    -5   6.6   -7 -5.358897e+00 -1.5907531897     -1.206588e-01
## 9994    -8   1.5  -21 -3.131997e+00 -1.0107085897      7.316672e-02
## 9995    13  -6.5  -88  2.492230e+00  0.5727804278     -3.024923e-03
## 9996    17  -7.0   -8  4.123432e+00 -0.3551155116      4.961575e-02
## 9997     7  -8.0   65 -9.354037e-01  1.1287784679      9.588460e-02
## 9998   -16   4.5   34 -2.060206e+00  1.6261467890     -4.886061e-02
## 9999    12  -5.3 -299  9.766865e-01  1.6284722222      4.712814e-02
##      avgSvptWonPercentage        winrate lastTenWinrate won
## 1            2.974964e-02  9.090909e-02            0.1   1
## 2           -1.796746e-02 -2.803030e-01           -0.2   0
## 3            2.398847e-02  2.000000e-01            0.2   1
## 4           -3.218184e-02 -3.333333e-02            0.0   0
## 5            3.008055e-02  6.060606e-03            0.0   0
## 6            1.351555e-02 -1.590909e-01           -0.2   0
## 7           -1.592185e-02  6.363636e-02            0.0   1
## 8           -2.574378e-02 -3.076923e-02            0.0   0
## 9           -3.060719e-02 -9.090909e-02           -0.1   0
## 10           2.644329e-02  2.867133e-01            0.2   0
## 11           3.378729e-02  5.375000e-01            0.5   1
## 12          -6.818004e-02 -9.230769e-02           -0.1   0
## 13          -6.708773e-02 -1.753247e-01           -0.2   0
## 14           6.810598e-02  3.333333e-01            0.4   1
## 15          -4.849556e-02 -2.461538e-01           -0.4   0
## 16          -5.142053e-03  5.769231e-02            0.0   0
## 17          -2.852311e-03  2.000000e-01            0.2   0
## 18           3.019433e-02  8.333333e-02            0.0   0
## 19          -1.789641e-02 -3.636364e-02            0.0   0
## 20           3.295047e-02  3.015873e-01            0.2   0
## 21           1.380684e-02  2.000000e-01            0.2   1
## 22           6.586310e-02  2.142857e-01            0.3   1
## 23          -4.151882e-02  5.769231e-02            0.0   1
## 24           2.598345e-02  1.019608e-01            0.2   1
## 25          -6.035237e-02 -1.666667e-01           -0.1   0
## 26          -6.186269e-03  1.515152e-01            0.1   1
## 27           4.329388e-02  8.484848e-02            0.0   0
## 28           8.448738e-02  1.500000e-01            0.1   1
## 29          -3.582745e-02 -5.347594e-02           -0.1   0
## 30          -2.914411e-02 -1.250000e-01           -0.2   1
## 31          -4.953850e-02 -7.239819e-02           -0.1   1
## 32           1.880126e-02  0.000000e+00           -0.1   1
## 33          -1.447377e-02  0.000000e+00            0.0   0
## 34           2.292838e-02  9.740260e-02            0.0   0
## 35          -6.546673e-03  3.055556e-01            0.2   1
## 36          -3.875522e-02 -3.875000e-01           -0.3   1
## 37           1.657428e-02 -4.545455e-02           -0.1   1
## 38          -7.771115e-02 -1.222222e-01           -0.1   1
## 39           4.196529e-03 -2.192513e-01           -0.4   1
## 40           2.572768e-02 -7.916667e-02            0.2   0
## 41           4.417200e-02  7.142857e-02            0.0   1
## 42           7.401425e-02  1.608392e-01            0.1   1
## 43          -8.851883e-02 -2.153846e-01           -0.4   0
## 44           1.214024e-02  5.303030e-02           -0.1   1
## 45           2.214246e-02  2.628205e-01            0.2   1
## 46           6.131804e-02  1.798246e-01            0.3   0
## 47          -2.676971e-02 -2.545455e-01           -0.3   0
## 48          -1.170488e-02  5.303030e-02            0.2   1
```

```
## 49          -5.703965e-02 -1.500000e-01          -0.1   0
## 50           3.993706e-03 -3.333333e-02           0.0   0
## 51           3.971147e-02 -1.428571e-01          -0.2   1
## 52          -2.216816e-02 -1.696429e-01           0.1   0
## 53           3.653043e-02  9.649123e-02           0.2   0
## 54          -2.392331e-02  1.904762e-01           0.2   1
## 55          -1.009907e-02  2.500000e-01           0.2   0
## 56          -8.777804e-02 -2.029412e-01          -0.1   0
## 57           7.124858e-03  1.515152e-01           0.1   1
## 58           1.410715e-02  4.195804e-02          -0.1   0
## 59           6.481069e-02  6.666667e-02           0.2   1
## 60           1.865175e-02 -9.803922e-03          -0.1   0
## 61           1.744509e-02 -2.666667e-01          -0.3   1
## 62          -1.008187e-01 -3.116883e-01          -0.3   0
## 63           1.866049e-02 -8.333333e-02           0.1   1
## 64           2.502476e-03  1.586538e-01           0.1   1
## 65           3.185671e-02 -1.255411e-01          -0.2   1
## 66           6.912646e-02  9.440559e-02          -0.1   1
## 67           3.306024e-02  1.904762e-01           0.1   0
## 68          -7.279471e-02 -1.772575e-01          -0.1   1
## 69           2.577035e-02  3.846154e-02           0.2   0
## 70          -2.608923e-02  3.846154e-02           0.1   1
## 71           2.342673e-02  6.153846e-02           0.1   1
## 72           3.488750e-02  1.000000e-01           0.1   1
## 73          -1.137573e-02  0.000000e+00           0.0   0
## 74           5.464800e-02  6.493506e-02           0.0   1
## 75          -1.153243e-02  1.009615e-01           0.0   0
## 76           4.915074e-02  4.705882e-02           0.1   1
## 77           6.279000e-02  2.333333e-01           0.3   1
## 78          -6.242513e-02 -3.296703e-01          -0.1   0
## 79           4.742453e-02  1.500000e-01           0.0   1
## 80           1.770122e-02  1.978022e-01           0.2   0
## 81          -1.355703e-02  9.615385e-03           0.0   0
## 82          -7.112694e-02 -2.954545e-01          -0.2   0
## 83           4.061524e-02  7.142857e-02           0.2   1
## 84           4.192006e-02  3.296703e-01           0.5   1
## 85          -1.009126e-01 -3.142857e-01          -0.2   0
## 86          -4.091506e-02 -1.538462e-02           0.1   0
## 87          -9.238293e-02 -2.393162e-01           0.0   0
## 88           1.005934e-02 -1.837607e-01          -0.2   0
## 89           1.143769e-01  3.842105e-01           0.3   1
## 90          -6.632957e-02 -5.000000e-01          -0.5   0
## 91           1.125916e-01  2.948718e-01           0.1   1
## 92           1.203044e-02 -2.250000e-01          -0.2   1
## 93           2.017562e-04 -2.476190e-01          -0.4   1
## 94           7.556542e-02  1.833333e-01           0.2   0
## 95           3.551402e-02 -9.523810e-02          -0.2   0
## 96          -8.695285e-02 -5.125000e-01          -0.5   1
## 97          -6.607866e-02 -3.571429e-01          -0.4   0
## 98          -1.106771e-01 -3.030303e-01          -0.3   0
## 99          -7.205127e-03  1.184211e-01           0.0   1
## 100          2.721721e-02  1.298701e-01           0.1   1
## 101          2.870654e-02  4.285714e-02           0.1   0
## 102         -4.839881e-02 -3.010033e-02           0.0   0
## 103         -1.937719e-02 -1.333333e-01          -0.2   0
## 104         -1.883757e-02 -9.047619e-02           0.0   0
## 105         -4.462332e-02  1.052632e-02           0.1   1
## 106         -6.450984e-02  3.684211e-02           0.1   1
```

```
## 107         1.120039e-01  3.854545e-01        0.4   1
## 108         3.031867e-02 -3.846154e-02       -0.1   1
## 109         1.670336e-02  1.813187e-01        0.0   1
## 110         6.436919e-02  3.205742e-01        0.3   1
## 111         5.656034e-04 -1.824561e-01       -0.2   1
## 112        -2.348100e-02 -9.893048e-02       -0.1   1
## 113         3.016601e-03  1.750000e-01        0.1   1
## 114         3.691927e-03  3.571429e-02        0.0   0
## 115         2.316436e-02 -5.952381e-02       -0.1   1
## 116         4.079984e-02  7.352941e-02        0.0   1
## 117         8.392430e-02  3.167421e-01        0.3   1
## 118        -8.338743e-03  3.333333e-02        0.0   0
## 119         4.646133e-02 -7.777778e-02        0.1   1
## 120        -2.610632e-02  4.779412e-02        0.0   0
## 121         8.167881e-03  6.862745e-02        0.1   1
## 122        -1.026747e-01 -1.643519e-01        0.0   0
## 123         2.326759e-02 -6.349206e-02        0.0   1
## 124         4.759678e-02  1.503759e-02        0.1   1
## 125         4.739865e-02  1.347962e-01        0.1   1
## 126        -4.218764e-02  6.060606e-02        0.1   1
## 127         4.789040e-02  1.071429e-01        0.1   0
## 128        -1.590889e-02  1.571429e-01        0.2   1
## 129        -1.039624e-01 -1.666667e-01        0.0   0
## 130        -1.484902e-02  1.153846e-01        0.0   0
## 131         4.186546e-02 -1.625000e-01       -0.3   0
## 132        -7.552119e-02 -1.454545e-01        0.0   1
## 133         1.245147e-02  0.000000e+00       -0.1   1
## 134        -2.967252e-02  1.666667e-01        0.2   0
## 135        -3.773788e-02 -2.196970e-01       -0.2   1
## 136        -6.641507e-02 -3.214286e-01       -0.1   1
## 137        -5.745109e-03  2.310924e-01        0.4   0
## 138        -6.284440e-02 -6.250000e-02        0.1   1
## 139        -4.004933e-02 -1.127451e-01       -0.1   0
## 140        -2.696458e-02  1.454545e-01        0.1   1
## 141        -7.807281e-02 -3.500000e-01       -0.4   0
## 142        -1.478294e-02  3.921569e-03        0.0   1
## 143        -5.447229e-04  1.709402e-02        0.1   0
## 144        -8.118480e-02 -2.777778e-02       -0.2   0
## 145         3.070352e-02  1.978022e-01        0.1   1
## 146        -8.970812e-02 -1.315789e-01       -0.1   1
## 147        -3.162577e-02  8.906883e-02        0.0   0
## 148         6.522569e-02  4.147727e-01        0.6   1
## 149        -3.641915e-02 -2.523810e-01       -0.2   0
## 150        -2.719698e-02 -6.250000e-02        0.0   0
## 151        -4.884512e-02  2.614379e-02        0.1   0
## 152         4.897103e-02  7.692308e-02       -0.1   1
## 153         1.780220e-02  1.662404e-01        0.1   0
## 154        -3.651786e-02 -9.565217e-02       -0.2   0
## 155         8.308185e-02  2.566845e-01        0.0   1
## 156        -8.971988e-02 -2.272727e-01       -0.3   0
## 157        -4.241179e-02 -3.809524e-01       -0.4   0
## 158        -5.508784e-02 -1.778846e-01       -0.1   0
## 159         3.183690e-02 -6.666667e-02       -0.1   1
## 160         4.131114e-02  3.393665e-01        0.4   1
## 161         4.861015e-02  2.342657e-01        0.2   1
## 162        -1.201089e-02 -2.916667e-01       -0.3   0
## 163         5.051203e-02  1.507353e-01        0.2   1
## 164         1.183460e-02 -4.545455e-02       -0.1   0
```

```
## 165        -6.974011e-03 -2.147059e-01          0.0  0
## 166        -1.073179e-03  9.411765e-02          0.0  1
## 167        -1.367022e-02  2.222222e-02         -0.1  0
## 168         3.939287e-02  2.927536e-01          0.2  1
## 169        -2.322018e-02 -1.269841e-01         -0.1  0
## 170        -4.942468e-03 -1.527778e-01         -0.4  0
## 171         3.235244e-02  1.257310e-01          0.1  1
## 172         1.310220e-02  1.333333e-01          0.1  1
## 173         1.475117e-02  3.081232e-02          0.0  0
## 174        -9.038237e-03  8.928571e-02          0.1  0
## 175         4.845305e-02  5.555556e-02         -0.1  1
## 176        -3.287570e-03  2.562929e-01          0.2  1
## 177        -1.888667e-02  1.088889e-01          0.2  0
## 178         5.549494e-02  2.166667e-01          0.3  1
## 179        -4.452214e-02 -3.472222e-02          0.0  1
## 180         4.239569e-02  2.543860e-01          0.1  0
## 181         4.569198e-02 -3.000000e-02          0.1  0
## 182        -4.823705e-03  5.163043e-02          0.0  1
## 183         2.233676e-02  3.594771e-02          0.0  1
## 184        -1.309179e-02  5.482456e-02          0.0  1
## 185         4.839801e-02  1.779449e-01          0.2  1
## 186        -4.394911e-03  1.052632e-02          0.0  0
## 187         2.415412e-02  1.619048e-01          0.1  1
## 188        -1.675174e-04 -8.333333e-02         -0.2  0
## 189         3.185501e-02  1.818182e-02          0.1  1
## 190        -1.372111e-02  2.727273e-02          0.1  0
## 191        -3.671530e-02 -6.608696e-02          0.0  0
## 192         4.714624e-02  5.072464e-02          0.0  1
## 193        -1.866350e-02 -2.517483e-01         -0.1  0
## 194        -2.686276e-02  2.631579e-02         -0.1  0
## 195         5.941568e-02  3.541667e-01          0.5  1
## 196         1.665629e-02  1.714286e-01          0.0  0
## 197        -5.493269e-02 -5.000000e-01         -0.5  1
## 198        -5.394895e-02 -2.631579e-02          0.1  0
## 199         3.996079e-02  8.333333e-02          0.0  1
## 200         2.268574e-02  4.423077e-01          0.3  0
## 201        -3.986516e-02 -7.500000e-02          0.0  1
## 202        -6.764984e-02  1.680672e-02          0.0  1
## 203        -7.990128e-02 -2.115385e-01         -0.1  0
## 204        -5.947331e-03  1.547619e-01          0.2  0
## 205         1.600608e-02 -1.227621e-01          0.0  0
## 206         4.764189e-02  1.974359e-01          0.2  1
## 207        -7.115942e-02 -2.467105e-01         -0.2  0
## 208         1.023223e-01  4.268775e-01          0.4  1
## 209        -3.521803e-02  2.000000e-01          0.2  1
## 210        -4.739552e-02 -3.076923e-01         -0.1  0
## 211         1.490118e-02  2.637363e-01          0.2  1
## 212        -4.726552e-02 -3.166667e-01         -0.3  0
## 213        -1.106938e-01 -3.363636e-01         -0.3  0
## 214        -4.567157e-02 -1.266968e-01         -0.1  0
## 215        -6.469722e-02 -1.868421e-01         -0.1  0
## 216         2.863304e-02  2.291667e-01         -0.1  1
## 217         1.493235e-02 -1.350000e-01         -0.2  0
## 218        -3.524235e-02 -1.777778e-01         -0.1  1
## 219         2.690103e-02  4.761905e-02          0.0  1
## 220        -4.816807e-03 -1.388889e-01         -0.3  0
## 221         2.975679e-02  7.000000e-02          0.2  1
## 222        -4.446009e-02  5.494505e-02          0.0  1
```

```
## 223            4.920901e-02  1.022727e-01              0.0   0
## 224           -4.347210e-03 -1.994048e-01             -0.2   0
## 225            1.730055e-02 -1.915709e-02              0.0   0
## 226            3.763826e-02  1.256684e-01              0.1   1
## 227           -2.889142e-02  3.105590e-03              0.0   1
## 228           -3.522600e-02 -1.515152e-02             -0.1   0
## 229            7.365140e-02  2.105263e-02              0.1   0
## 230            8.283025e-02  1.363636e-01              0.3   1
## 231           -1.125589e-02  7.894737e-02             -0.1   1
## 232           -1.140467e-01 -1.940789e-01             -0.1   0
## 233           -8.098145e-03  1.000000e-01              0.0   0
## 234            7.885762e-03  1.960784e-01              0.1   1
## 235           -8.833755e-02 -1.923077e-01             -0.3   0
## 236            2.129092e-02  1.647059e-01              0.2   1
## 237            5.427632e-03  8.479532e-02              0.2   0
## 238           -3.443225e-02 -2.500000e-01             -0.1   1
## 239            6.240951e-02  3.215686e-01              0.4   1
## 240           -2.751625e-02 -1.960784e-02              0.0   0
## 241           -3.881693e-02 -1.692308e-01             -0.1   0
## 242           -4.784226e-04 -1.120448e-01             -0.2   1
## 243           -2.383502e-03 -1.222222e-01             -0.1   1
## 244            1.089659e-01  3.253968e-01              0.0   1
## 245           -2.902496e-02  1.923077e-01              0.1   1
## 246           -6.895322e-03  4.977376e-02             -0.2   0
## 247            1.823659e-02  1.168478e-01              0.1   0
## 248            3.471385e-03  1.449275e-02              0.1   1
## 249            5.230186e-03  2.000000e-01              0.1   0
## 250           -3.798471e-02 -1.900000e-01             -0.3   0
## 251            1.548003e-02 -1.522556e-01             -0.1   1
## 252            8.701554e-03 -7.407407e-02              0.0   0
## 253           -1.239028e-01 -6.500000e-01             -0.7   0
## 254           -5.785748e-02 -1.456522e-01             -0.2   0
## 255            1.990511e-02 -1.604278e-02              0.1   0
## 256           -5.276781e-02 -3.530466e-01             -0.4   0
## 257            3.627713e-02  2.291667e-01              0.1   1
## 258           -6.655566e-02 -4.931034e-01             -0.6   0
## 259           -2.981838e-02 -1.919192e-01             -0.1   1
## 260            8.440144e-02  6.060606e-02             -0.1   0
## 261            1.564957e-02  3.174603e-01              0.2   1
## 262           -5.631773e-02 -2.961538e-01             -0.3   0
## 263            9.717775e-03  2.947368e-02              0.0   1
## 264           -3.490910e-02 -1.250000e-01             -0.2   0
## 265            1.446918e-02  6.250000e-02              0.3   1
## 266           -4.466332e-02 -3.263158e-01             -0.3   0
## 267           -2.426978e-03 -9.415584e-02              0.0   0
## 268            2.199755e-02  1.009524e-01              0.1   1
## 269            1.399010e-02  5.185185e-02              0.0   1
## 270            1.876988e-02 -3.757576e-02             -0.1   0
## 271            9.399867e-03  2.384292e-02              0.2   1
## 272            1.895553e-02  1.263736e-01              0.1   1
## 273           -1.345408e-02  4.779412e-02              0.1   0
## 274            4.190839e-02  9.064039e-02              0.1   1
## 275           -3.473157e-02 -1.978022e-01              0.0   0
## 276           -4.216946e-02 -7.518797e-03             -0.1   0
## 277           -6.033829e-02  5.714286e-02              0.0   0
## 278           -2.887604e-02 -2.631579e-01             -0.1   0
## 279            7.001317e-02  4.444444e-01              0.1   1
## 280           -2.528412e-02  2.400000e-01              0.2   1
```

```
## 281          1.785633e-02  3.461538e-01          0.2   1
## 282          8.978826e-02  2.363636e-01          0.2   1
## 283         -9.144033e-02 -1.428571e-01         -0.2   1
## 284          1.777581e-03  1.318681e-01         -0.1   1
## 285          2.427511e-02 -1.449275e-02          0.2   0
## 286         -5.641757e-02 -8.095238e-02          0.0   1
## 287          6.502994e-02  3.142857e-01          0.2   1
## 288          2.808970e-02  1.145320e-01          0.0   1
## 289          1.849405e-03  9.090909e-02         -0.1   1
## 290          2.484661e-02  6.086957e-02          0.0   0
## 291         -4.830699e-02 -7.777778e-02         -0.1   1
## 292         -4.002823e-02 -3.039216e-01         -0.2   0
## 293         -2.708986e-02  8.636364e-02          0.1   1
## 294         -4.747515e-02 -1.680672e-02          0.0   1
## 295          1.135288e-01  2.380952e-01          0.1   1
## 296          7.516075e-02  4.833333e-01          0.4   1
## 297          3.631091e-02 -8.823529e-02         -0.2   1
## 298         -9.326526e-02 -1.503759e-01         -0.2   0
## 299          5.703215e-03  1.884058e-01          0.0   1
## 300         -1.029326e-01 -2.081340e-01         -0.2   1
## 301         -5.745461e-02 -5.555556e-02          0.1   1
## 302          1.067043e-02  0.000000e+00          0.2   0
## 303         -7.795240e-02 -1.010101e-01         -0.1   0
## 304          1.238034e-01  2.714286e-01          0.2   0
## 305          6.876259e-02  3.333333e-01          0.3   1
## 306          5.263236e-02  9.090909e-02          0.1   1
## 307          6.691658e-02  6.798246e-02          0.0   1
## 308          6.115920e-02  2.075099e-01          0.3   1
## 309          3.526199e-02  1.431159e-01         -0.1   1
## 310         -7.231519e-02 -2.294737e-01         -0.2   1
## 311          2.021851e-02 -6.260870e-02         -0.2   1
## 312          7.454032e-02  1.050725e-01          0.2   0
## 313          2.581714e-02  1.057692e-01          0.0   0
## 314         -7.246274e-02 -1.153846e-01          0.0   0
## 315         -3.795408e-02  1.454545e-01          0.0   0
## 316         -7.664373e-02 -2.763158e-01         -0.3   0
## 317          1.981899e-02  2.833333e-01          0.3   1
## 318         -5.189547e-02 -1.111111e-01          0.0   0
## 319          8.041330e-02  1.147186e-01          0.3   1
## 320         -3.534894e-02 -2.826087e-02         -0.2   0
## 321          1.224465e-02  4.761905e-02          0.2   1
## 322          5.658818e-02  3.500000e-01          0.4   1
## 323         -2.196243e-02 -3.694581e-01         -0.3   0
## 324          1.360977e-01  2.521739e-01          0.3   1
## 325         -4.172075e-02  2.132867e-01          0.1   1
## 326         -2.100722e-02 -1.507353e-01         -0.3   0
## 327         -2.891919e-02 -3.393829e-01         -0.1   0
## 328          4.016123e-02  8.796296e-02          0.1   1
## 329         -1.362033e-02 -1.875000e-01         -0.4   0
## 330         -8.840988e-02 -3.586957e-01         -0.5   0
## 331         -4.857397e-02 -1.470588e-01         -0.2   0
## 332         -1.673989e-02 -9.166667e-02         -0.1   1
## 333          3.607126e-02  2.500000e-01          0.0   1
## 334          3.971153e-02  3.225000e-01          0.3   1
## 335          3.568664e-02 -4.571429e-02          0.1   1
## 336         -1.064331e-01 -4.548495e-01         -0.4   0
## 337         -3.175880e-02 -1.470588e-01          0.2   0
## 338          9.623317e-03  9.009009e-02          0.3   1
```

```
## 339      5.036449e-03  2.186380e-01         0.0    1
## 340     -8.233763e-02  1.212121e-01         0.2    1
## 341     -1.134897e-02  1.851852e-02         0.2    0
## 342      1.817387e-03  0.000000e+00         0.1    0
## 343      2.223493e-04 -8.791209e-02        -0.1    1
## 344     -4.439547e-02 -1.723077e-01         0.1    1
## 345     -6.470038e-03 -4.166667e-02         0.1    0
## 346      6.388554e-02  1.517857e-01         0.0    1
## 347      1.485265e-02 -7.326007e-03        -0.1    1
## 348      2.752108e-02  9.913793e-02         0.2    1
## 349      4.623571e-03  1.014493e-01        -0.1    1
## 350     -1.550596e-02 -1.809211e-02         0.2    1
## 351      1.832746e-03 -1.869748e-01        -0.3    1
## 352     -3.638056e-02  2.224694e-02        -0.2    0
## 353      5.775724e-03  1.457490e-01        -0.1    1
## 354     -5.763682e-03  1.468298e-01         0.4    1
## 355      9.482710e-03  3.939394e-02        -0.2    1
## 356     -4.038194e-03 -8.502024e-02        -0.2    0
## 357      2.250484e-02  4.597701e-02         0.1    1
## 358     -6.983555e-02 -1.750000e-01        -0.4    0
## 359      4.130700e-02  7.608696e-03        -0.2    1
## 360     -3.629650e-02 -2.013685e-01        -0.3    0
## 361      7.187730e-03  9.068627e-02         0.3    1
## 362      9.190081e-02  1.166667e-01         0.0    0
## 363      9.400565e-05  0.000000e+00         0.0    0
## 364     -5.522217e-02 -1.041667e-01        -0.3    0
## 365      4.534348e-02  4.086538e-02         0.1    1
## 366      7.108767e-02  3.376068e-01         0.6    1
## 367      6.609462e-02  3.137255e-02         0.0    1
## 368     -7.702994e-02 -3.355120e-01        -0.4    0
## 369      1.141394e-01  2.678571e-01         0.3    1
## 370      6.020650e-02 -1.077586e-03         0.2    0
## 371     -4.704955e-02  8.978328e-02         0.3    1
## 372     -3.653697e-02 -1.210526e-01        -0.1    1
## 373      5.058774e-03 -2.777778e-02        -0.2    0
## 374      3.011562e-02 -7.309942e-02        -0.1    0
## 375     -2.187187e-02 -1.454545e-01         0.0    1
## 376     -5.281646e-03 -7.142857e-02        -0.1    0
## 377     -5.177930e-02 -1.909091e-01        -0.1    0
## 378      1.816367e-02 -2.371542e-02         0.1    1
## 379      1.083107e-01  3.912037e-01         0.2    0
## 380      5.711233e-02  2.600000e-01         0.3    1
## 381      6.871208e-02  2.344322e-01         0.2    0
## 382     -7.209452e-03 -3.541667e-01        -0.3    0
## 383      2.348352e-02  1.109091e-01         0.0    1
## 384     -2.355052e-02  7.826087e-02        -0.2    0
## 385     -2.714619e-02 -2.753623e-01        -0.2    1
## 386      5.943364e-02  3.229167e-01         0.2    1
## 387     -3.721424e-02 -5.413105e-02         0.0    0
## 388     -1.493456e-02  2.007168e-01         0.2    0
## 389      5.195857e-03  3.809524e-02         0.1    1
## 390     -2.616484e-02 -2.083333e-02         0.1    0
## 391      2.402625e-02  2.297619e-01         0.2    1
## 392     -1.184590e-01 -2.239819e-01        -0.2    0
## 393      9.950075e-05  1.285403e-01         0.0    1
## 394     -2.227136e-02 -2.532468e-01         0.0    1
## 395     -5.912477e-03 -1.929825e-01        -0.2    1
## 396     -2.710786e-02 -2.777778e-01        -0.2    0
```

```
## 397          6.250516e-02  1.380471e-01           0.0    1
## 398         -6.228960e-03  2.837838e-01           0.4    1
## 399          2.840870e-02 -1.823308e-01          -0.1    1
## 400         -8.515984e-02 -5.219048e-01          -0.5    0
## 401         -1.146623e-02  2.597403e-02           0.1    1
## 402         -8.206416e-02 -3.196881e-01          -0.2    0
## 403         -7.584868e-02 -3.030303e-01          -0.2    0
## 404          3.777372e-02  5.602241e-03          -0.2    1
## 405          8.392406e-02  1.879383e-01           0.5    0
## 406         -2.646410e-02  2.931034e-02          -0.3    1
## 407         -1.644246e-02  0.000000e+00          -0.2    1
## 408          1.401953e-01  5.333333e-01           0.5    1
## 409          6.515193e-02  1.294118e-01           0.2    1
## 410          4.046566e-02  1.515152e-02           0.1    1
## 411         -1.199885e-01 -2.955665e-01          -0.2    0
## 412         -2.245904e-02  6.521739e-02          -0.1    0
## 413          9.083161e-02  3.988095e-01           0.3    1
## 414         -3.632578e-02 -3.498168e-01          -0.4    0
## 415         -3.326286e-03 -1.082353e-01          -0.3    0
## 416          3.300204e-02  1.090909e-01           0.1    1
## 417         -5.796549e-03 -1.272727e-01          -0.2    1
## 418         -5.805367e-02 -2.675439e-01          -0.3    0
## 419         -1.319943e-02 -5.720824e-02          -0.3    0
## 420         -2.482593e-02  1.250000e-01           0.1    1
## 421          1.466380e-02  1.547619e-01           0.1    1
## 422          3.397104e-02  8.000000e-02           0.1    0
## 423         -9.749953e-02 -2.692308e-01          -0.2    0
## 424          6.776736e-02  4.500000e-01           0.4    1
## 425          7.148938e-02  4.035088e-01           0.4    0
## 426         -4.749898e-02 -4.313725e-01          -0.2    0
## 427          5.224832e-02 -4.166667e-02           0.2    1
## 428          3.751739e-02  3.819629e-01           0.3    1
## 429          3.866513e-02  1.666667e-01          -0.1    1
## 430         -4.896217e-02 -1.809524e-01          -0.3    0
## 431         -7.706897e-02 -3.333333e-01          -0.3    0
## 432         -2.785573e-02 -2.962963e-01          -0.4    0
## 433          7.776423e-04 -6.428571e-02           0.1    0
## 434         -2.985983e-02 -3.772894e-01          -0.4    0
## 435          3.094501e-02  2.365385e-01           0.1    1
## 436         -5.713955e-02 -1.859070e-01          -0.1    0
## 437         -5.646714e-02 -3.508772e-01          -0.3    1
## 438         -2.842475e-02 -1.000000e-01          -0.2    0
## 439         -9.838103e-03  1.625000e-01           0.1    1
## 440         -8.310316e-02 -4.488889e-01          -0.6    0
## 441         -1.236733e-01 -4.586207e-01          -0.4    0
## 442          8.165070e-03  2.496894e-01           0.1    1
## 443          4.551914e-02  1.193548e-01           0.0    1
## 444          6.390279e-03 -1.515152e-02           0.2    0
## 445         -6.512936e-04 -4.575163e-02          -0.2    0
## 446          2.035448e-02  2.166667e-01           0.3    1
## 447         -3.438333e-02 -7.060755e-02           0.1    0
## 448          9.822131e-03  1.424419e-01           0.1    0
## 449          2.717407e-02  4.419355e-01           0.3    0
## 450         -1.376757e-02  1.730769e-01           0.0    1
## 451          1.573679e-02 -1.471545e-01          -0.1    0
## 452          5.366658e-02  2.910603e-01           0.4    1
## 453          4.033084e-02  6.722689e-02           0.2    0
## 454          8.457399e-02  2.668919e-01           0.4    1
```

```
## 455            -1.753862e-02 -1.904762e-02              -0.1   0
## 456            -8.894717e-03  6.810036e-02               0.2   0
## 457            -6.283630e-02 -3.407756e-02              -0.2   0
## 458            -1.925651e-02  5.862069e-02               0.2   1
## 459             1.230840e-03 -3.949843e-01              -0.4   0
## 460             2.465967e-02 -1.015038e-01               0.1   1
## 461             7.419026e-02  2.375940e-01               0.4   1
## 462            -2.580524e-02 -7.435345e-02              -0.2   1
## 463             5.254336e-02 -2.982456e-02               0.0   1
## 464             2.422004e-02 -1.196078e-01               0.0   1
## 465            -2.617216e-02 -2.051282e-01              -0.2   0
## 466            -3.340096e-02 -1.631702e-02              -0.3   1
## 467             4.533679e-02  2.428571e-01               0.2   1
## 468            -2.655926e-02 -1.671449e-01              -0.3   0
## 469             8.496409e-02  4.541667e-01               0.5   1
## 470            -6.823077e-02  3.421053e-02               0.1   0
## 471             1.636791e-02 -1.390476e-01               0.1   0
## 472            -6.452899e-02 -2.197802e-02              -0.1   0
## 473             2.202766e-02  2.105263e-02              -0.2   1
## 474             3.097838e-03  1.112347e-03               0.1   0
## 475             1.902786e-02  7.172557e-02               0.0   0
## 476            -3.134185e-02 -7.142857e-02              -0.1   0
## 477             5.992053e-03  3.609626e-01               0.4   1
## 478            -5.952965e-02 -1.363636e-01              -0.3   0
## 479             4.724701e-02  1.736842e-01               0.1   1
## 480             5.650558e-03  1.717172e-01               0.2   0
## 481            -3.459833e-02 -2.518519e-01              -0.2   1
## 482             7.914628e-02  5.191816e-01               0.4   1
## 483            -8.900254e-02 -2.741935e-01              -0.4   0
## 484            -3.765549e-02 -2.750000e-01              -0.2   0
## 485             2.125354e-03  6.134259e-02               0.1   1
## 486             1.728351e-02 -2.415459e-03               0.1   0
## 487             1.130207e-02  5.454545e-02               0.1   1
## 488             6.411037e-02  3.361486e-01               0.5   0
## 489             4.369711e-03  3.518519e-01               0.3   0
## 490             3.832764e-02  1.448864e-01               0.2   1
## 491             1.239270e-01  7.047619e-01               0.8   1
## 492             6.542258e-03  1.309524e-01               0.3   1
## 493             1.948146e-02  2.469636e-01               0.1   1
## 494             6.875653e-02 -1.813187e-01               0.0   0
## 495            -6.801914e-02 -1.470588e-01              -0.2   0
## 496            -7.595866e-02 -1.671891e-01              -0.1   0
## 497             3.284840e-02 -1.327586e-01              -0.2   0
## 498            -5.079116e-03  6.459330e-02               0.1   1
## 499             6.545818e-02  1.274510e-01               0.1   0
## 500             2.947424e-03  3.400000e-01               0.2   0
## 501            -9.119227e-02 -3.821340e-01              -0.6   0
## 502            -4.667221e-02 -2.282878e-01              -0.3   0
## 503             1.475287e-02  2.173913e-02               0.1   0
## 504            -6.562554e-02 -5.880893e-01              -0.5   0
## 505            -6.178640e-02 -4.332925e-01              -0.6   0
## 506            -4.629532e-02 -3.703704e-02              -0.1   0
## 507             3.846021e-03 -7.130435e-02               0.0   1
## 508             1.208047e-02  2.393484e-01               0.2   0
## 509             1.390241e-01  3.529412e-01               0.3   0
## 510             7.776936e-02  1.250000e-01               0.2   1
## 511             7.433469e-04  3.125000e-01               0.2   0
## 512             3.818362e-02  3.019481e-01               0.4   0
```

```
## 513          -5.569582e-03  7.954545e-02          0.1   1
## 514           1.615064e-02 -1.601732e-01         -0.2   1
## 515          -5.182631e-02 -1.657754e-01         -0.1   0
## 516          -6.582623e-03  1.931034e-02          0.0   1
## 517          -5.891994e-02 -2.303922e-01         -0.3   0
## 518          -2.191723e-02 -3.296703e-03          0.0   0
## 519          -9.168632e-02 -2.350000e-01         -0.5   0
## 520          -6.640626e-03 -3.333333e-02          0.0   1
## 521           5.462470e-03  7.380952e-02          0.1   0
## 522          -1.281786e-02  2.857143e-02         -0.1   1
## 523          -4.365039e-02 -2.301587e-01         -0.5   0
## 524           1.040938e-02  3.146853e-02         -0.1   0
## 525           2.446795e-02  1.666667e-01          0.1   1
## 526           4.787479e-02 -2.380952e-03          0.1   0
## 527           6.533375e-02 -1.666667e-01         -0.1   0
## 528           5.427506e-02  2.058824e-01          0.2   1
## 529          -1.820125e-02 -4.545455e-02         -0.2   0
## 530          -7.267941e-02 -5.555556e-02         -0.4   1
## 531           6.151473e-03  9.615385e-03          0.1   0
## 532           1.078371e-04  1.510297e-01          0.3   0
## 533           4.964777e-02  1.818182e-01          0.2   0
## 534          -4.658768e-02 -1.118881e-01         -0.2   0
## 535           2.196911e-02  8.658009e-03          0.1   1
## 536          -2.067612e-02 -2.067364e-01         -0.2   1
## 537          -2.022099e-02  2.222222e-02         -0.1   1
## 538           5.610477e-02  1.536842e-01          0.2   0
## 539           6.135275e-03  2.998501e-02         -0.1   1
## 540          -1.885064e-02  2.046036e-02         -0.1   1
## 541          -7.085648e-02 -1.979472e-01         -0.2   0
## 542          -4.556827e-02 -3.815789e-01         -0.4   1
## 543          -6.581509e-02 -6.798246e-02         -0.3   0
## 544          -2.660228e-02  2.941176e-02         -0.1   0
## 545           3.446653e-02  6.926407e-02          0.0   0
## 546          -4.595606e-03  0.000000e+00         -0.1   0
## 547          -8.196371e-02 -1.850962e-01         -0.2   0
## 548          -3.894463e-03  1.644444e-01          0.2   1
## 549           4.959810e-02  0.000000e+00          0.2   1
## 550           1.910744e-02  2.380952e-02          0.1   0
## 551          -2.065540e-02  3.541667e-02         -0.1   0
## 552          -5.948731e-02 -7.177033e-02         -0.3   1
## 553           2.756350e-03  2.173913e-02          0.2   1
## 554           1.645759e-02 -2.371542e-02          0.0   0
## 555           2.826578e-02  1.063348e-01          0.0   1
## 556           3.018938e-02  3.376906e-02          0.0   1
## 557          -8.903074e-02 -2.714286e-01         -0.3   0
## 558          -6.897838e-03  1.011905e-01          0.0   0
## 559           2.679530e-02  1.807692e-01          0.2   0
## 560          -7.690851e-02 -3.000000e-01         -0.2   0
## 561          -1.225249e-01 -4.750000e-01         -0.6   0
## 562           2.854309e-02  2.419355e-01          0.1   0
## 563          -9.779016e-03  4.769737e-01          0.3   1
## 564          -6.988090e-02 -3.939394e-01         -0.3   0
## 565           1.191411e-02 -2.148148e-01         -0.3   1
## 566          -5.998234e-02 -4.196429e-01         -0.4   0
## 567          -3.357715e-02  1.353846e-01         -0.1   1
## 568           4.666743e-02  1.666667e-01          0.4   0
## 569           3.271513e-02  2.435897e-01          0.1   0
## 570          -3.616357e-03 -5.357143e-02         -0.1   1
```

```
## 571          4.591011e-02  1.776471e-01          0.1   1
## 572          1.507804e-01  6.285714e-01          0.7   1
## 573         -8.980101e-02 -4.630940e-01         -0.3   1
## 574          5.852815e-02  2.820513e-01          0.4   0
## 575         -1.456277e-02 -1.262626e-01         -0.2   0
## 576          2.461328e-02  1.969697e-01         -0.2   0
## 577          5.770120e-02  1.250000e-01          0.1   1
## 578         -2.602520e-02 -2.941176e-02          0.0   1
## 579         -5.891525e-02 -2.538462e-01         -0.1   0
## 580          3.701080e-02  3.571429e-01          0.2   1
## 581          5.425964e-02  5.142857e-02         -0.1   1
## 582          4.171459e-02  2.222222e-01          0.2   1
## 583         -2.027281e-02 -1.806020e-01         -0.2   1
## 584         -8.076821e-03  6.602254e-02          0.0   1
## 585         -2.661709e-02 -1.494253e-01          0.0   0
## 586          3.626376e-02  2.187500e-01          0.2   1
## 587         -1.240060e-02  3.826087e-02          0.0   1
## 588          3.666089e-02  1.500000e-01          0.4   1
## 589         -1.062577e-02 -1.037037e-01         -0.1   0
## 590         -2.509361e-02 -1.267399e-01         -0.2   0
## 591          2.828404e-02  1.888502e-01          0.2   1
## 592         -2.063355e-03 -8.250000e-02         -0.2   0
## 593          3.740912e-02  6.000000e-01          0.5   0
## 594         -8.344915e-03 -4.227941e-01         -0.4   0
## 595         -4.824768e-02 -3.356522e-01         -0.6   0
## 596         -2.905717e-02 -1.043956e-01         -0.2   1
## 597         -1.376249e-02 -1.740260e-01         -0.2   0
## 598          6.300610e-02  2.126437e-01         -0.1   1
## 599          5.052130e-02  4.761905e-02         -0.3   0
## 600          4.033301e-03 -1.625000e-01          0.0   0
## 601         -2.291660e-02 -2.138158e-01          0.1   0
## 602         -3.724544e-02 -3.508772e-01         -0.5   0
## 603         -5.824106e-02 -2.222222e-01         -0.2   0
## 604         -2.165440e-02 -6.547619e-02         -0.1   1
## 605         -4.652935e-02 -2.555556e-01         -0.3   0
## 606          5.733600e-02  8.974359e-02          0.0   0
## 607         -4.516782e-02 -1.684588e-01         -0.4   0
## 608          9.032563e-02  5.913043e-01          0.6   1
## 609         -7.480792e-02 -3.607069e-01         -0.3   0
## 610          9.064961e-03 -4.393939e-02         -0.2   0
## 611          5.570305e-02  1.996337e-01          0.2   1
## 612         -8.390222e-03 -3.134796e-01         -0.4   1
## 613         -8.303352e-04  1.546218e-01          0.0   1
## 614          1.554711e-02  6.547619e-02          0.3   1
## 615          1.391044e-02  1.269841e-01          0.1   0
## 616          6.969250e-02  1.989489e-01          0.1   1
## 617          5.436017e-02  2.157576e-01          0.2   1
## 618          5.066867e-02  1.425439e-01          0.0   1
## 619         -5.222137e-02 -7.183499e-02         -0.2   0
## 620          5.258300e-02  3.470765e-01          0.4   1
## 621          5.523457e-02  2.925926e-01          0.2   0
## 622         -7.080704e-02 -2.686170e-01         -0.3   0
## 623         -4.925959e-02 -1.309371e-01          0.0   0
## 624          6.785307e-02  4.108527e-01          0.5   1
## 625         -1.763789e-02  3.000000e-02         -0.1   1
## 626          1.040727e-01  3.684211e-01          0.3   0
## 627          4.787817e-02  1.176471e-01          0.0   1
## 628          3.138298e-02  2.652520e-03          0.1   0
```

```
## 629            1.888411e-02 -2.911534e-02          0.1  1
## 630            9.855080e-02  5.321970e-01          0.6  1
## 631            3.374493e-03 -4.487179e-02          0.1  1
## 632            3.316752e-03 -2.567568e-01         -0.2  0
## 633           -5.006366e-03 -1.428571e-02          0.1  1
## 634            2.769156e-02  1.543694e-01          0.0  1
## 635            6.755017e-02 -7.602339e-03          0.1  1
## 636            4.138560e-02  1.903226e-01          0.1  1
## 637           -3.212685e-03  1.410912e-01          0.0  1
## 638            6.114790e-02  2.570533e-01          0.5  1
## 639            6.501141e-02  1.333333e-01          0.2  1
## 640            1.046277e-01  2.435897e-01          0.2  1
## 641            3.820563e-03  1.083333e-01          0.1  0
## 642           -4.444097e-03 -8.862434e-02         -0.2  1
## 643            4.577679e-03 -6.079404e-02          0.1  1
## 644            2.632794e-02  2.623188e-01          0.3  0
## 645           -2.592056e-02  1.428571e-02          0.0  1
## 646            6.222905e-02 -7.575758e-02          0.0  0
## 647            2.930448e-02  8.828829e-02          0.2  0
## 648           -3.857659e-02 -1.585714e-01          0.0  1
## 649           -2.682279e-03  3.879310e-02          0.0  1
## 650            2.196699e-03  3.463203e-02          0.0  0
## 651            2.914181e-02  1.397516e-02          0.1  0
## 652           -4.048964e-02 -1.866667e-01         -0.3  1
## 653           -5.701809e-02 -4.419048e-01         -0.3  1
## 654           -1.208655e-02 -3.065134e-02         -0.2  1
## 655            4.316051e-04  3.333333e-02          0.1  1
## 656           -9.532725e-02 -3.796296e-01         -0.1  0
## 657            3.816375e-02 -7.114625e-02         -0.1  0
## 658            5.367922e-03  2.195946e-02         -0.1  1
## 659           -3.010460e-02 -5.517241e-02          0.0  1
## 660           -4.836936e-02 -3.178295e-01         -0.4  0
## 661            3.694581e-02  2.431373e-01         -0.1  1
## 662            5.858085e-02  1.688312e-01          0.1  1
## 663            2.456738e-02  1.005747e-01          0.2  1
## 664           -4.725288e-02 -2.954545e-01         -0.4  0
## 665           -5.887012e-02 -2.744361e-01         -0.4  0
## 666           -6.922381e-02 -2.983740e-01         -0.3  0
## 667            1.292190e-02  1.384615e-02          0.1  0
## 668            1.040099e-01  2.967687e-01          0.2  1
## 669           -8.516484e-03  4.509804e-02          0.0  1
## 670           -6.684219e-02 -3.190476e-01          0.1  0
## 671           -1.415511e-04 -2.772947e-01         -0.3  1
## 672           -2.020943e-02 -5.656820e-02         -0.1  1
## 673           -1.704426e-02  2.190476e-02         -0.1  0
## 674           -2.149693e-02 -2.747909e-01         -0.1  0
## 675            1.941925e-02  1.666667e-01          0.2  1
## 676            2.513809e-02  8.918129e-02         -0.2  0
## 677           -1.169685e-02 -7.027300e-02         -0.1  1
## 678            2.871795e-03  4.086538e-02         -0.2  0
## 679            1.716849e-02  1.225962e-01          0.1  1
## 680            6.848803e-03  8.333333e-02          0.0  0
## 681            3.502537e-02  1.928105e-01          0.2  0
## 682            8.051679e-02  1.155556e-01          0.1  1
## 683           -6.020044e-02  1.604278e-01          0.1  0
## 684           -3.540621e-02  2.801120e-02         -0.1  1
## 685            8.020073e-02  2.581818e-01          0.2  1
## 686            2.118841e-02 -2.564103e-02          0.0  0
```

```
## 687         -7.196298e-02 -1.799517e-01              -0.6   1
## 688          1.972886e-03  1.558442e-01               0.2   1
## 689         -9.728354e-03 -4.901961e-03               0.0   1
## 690          8.600135e-03 -4.094293e-02               0.0   0
## 691          1.388199e-01  5.573549e-01               0.4   1
## 692         -1.012932e-02 -1.048387e-01              -0.1   1
## 693         -3.538763e-02 -1.214575e-02              -0.3   0
## 694         -1.955213e-02 -3.333333e-02              -0.2   1
## 695         -4.965319e-03 -1.035654e-01              -0.1   1
## 696          1.784439e-02 -1.542777e-02               0.2   1
## 697          5.039841e-02  3.107143e-01               0.3   1
## 698          5.318253e-02  2.424242e-01               0.1   1
## 699          2.096987e-02  2.307692e-01               0.3   0
## 700          1.442179e-02  1.517857e-01               0.1   0
## 701         -3.948882e-02 -6.944444e-02              -0.4   1
## 702          1.419363e-02  1.636097e-01               0.1   0
## 703         -9.990462e-02 -2.694444e-01               0.0   0
## 704          6.506690e-02  3.444444e-01               0.4   1
## 705         -3.282466e-03 -1.289474e-01               0.0   0
## 706          4.355865e-02 -1.130604e-01              -0.2   1
## 707          9.198522e-04 -1.581028e-02              -0.1   1
## 708         -8.764327e-02 -2.578947e-01              -0.2   0
## 709          7.120585e-02  2.665848e-01              -0.1   1
## 710          4.998582e-02  1.265656e-01              -0.2   0
## 711          5.414021e-02  2.403846e-01               0.4   0
## 712         -1.207186e-02 -2.666667e-01              -0.1   0
## 713          1.828717e-02  3.172414e-02              -0.2   0
## 714          5.315967e-03 -3.552632e-02              -0.3   0
## 715         -1.767814e-02 -1.819853e-01              -0.1   1
## 716         -1.674187e-02 -1.563636e-01              -0.2   0
## 717          3.147392e-02  3.333333e-01               0.2   1
## 718          5.230036e-02  1.213922e-01               0.2   1
## 719          1.091609e-02  2.403846e-02              -0.3   0
## 720         -4.642998e-02  2.216749e-02               0.4   1
## 721          6.737615e-02  3.861893e-01               0.1   0
## 722         -4.096921e-02 -3.092105e-01              -0.1   0
## 723          3.991614e-02  3.809524e-02               0.2   1
## 724          3.049483e-02  2.202020e-01               0.1   1
## 725          3.813269e-02 -3.461538e-02               0.0   0
## 726          5.484946e-02  5.454545e-02              -0.1   1
## 727         -5.150519e-02 -1.594982e-01              -0.3   1
## 728          1.529906e-02  7.326007e-02              -0.1   0
## 729          2.131179e-02  1.683029e-01               0.1   1
## 730          6.778077e-03  1.879484e-01               0.1   0
## 731          3.511981e-02  2.153110e-01               0.3   0
## 732          3.359909e-02  1.738602e-01               0.0   1
## 733         -3.934082e-02 -2.166667e-01              -0.2   1
## 734         -4.091872e-02 -3.725490e-01              -0.4   0
## 735         -9.098884e-02 -6.153846e-02               0.2   1
## 736          5.044636e-02  2.097561e-01               0.3   1
## 737          3.017641e-02 -9.195402e-03               0.0   1
## 738          3.116613e-02  1.741071e-01               0.0   0
## 739          2.381967e-02 -3.580563e-02               0.0   1
## 740         -9.579221e-03 -3.095238e-01              -0.3   1
## 741          2.350399e-02  1.260504e-01               0.1   1
## 742         -5.709355e-02 -2.183908e-01              -0.2   0
## 743          2.907665e-02  3.238636e-01               0.4   1
## 744          2.558665e-03 -1.088929e-02               0.0   0
```

```
## 745          -1.432131e-02 -1.011905e-01          0.0   0
## 746           4.769796e-03  4.395604e-02          0.0   1
## 747           4.305933e-02  1.915185e-02          0.1   1
## 748           7.202035e-03  8.000000e-02         -0.2   0
## 749          -4.563260e-02 -2.355556e-01         -0.1   0
## 750          -3.918171e-02 -2.669197e-01         -0.1   0
## 751           1.148221e-02 -2.564103e-02          0.1   0
## 752          -4.501665e-02 -2.232143e-01         -0.2   0
## 753           4.003394e-02  7.417582e-02          0.3   0
## 754          -2.979287e-03 -1.709402e-02         -0.1   1
## 755           4.409436e-02 -1.370968e-01         -0.3   1
## 756          -3.413514e-03  1.273148e-02          0.0   0
## 757          -3.466924e-02 -6.521739e-02          0.0   1
## 758          -6.844572e-02 -2.952381e-01         -0.4   0
## 759           1.802517e-02  1.480263e-02          0.2   1
## 760           4.855178e-02  1.785714e-01          0.0   0
## 761          -8.618350e-02  1.190476e-01          0.0   0
## 762           7.384306e-02  2.683333e-01          0.2   1
## 763          -6.663342e-02 -2.207792e-01         -0.2   1
## 764          -2.095162e-02 -1.515152e-01          0.0   0
## 765          -6.088024e-02 -1.067538e-01          0.0   0
## 766           1.436580e-02  5.263158e-02          0.2   0
## 767          -1.652458e-02 -1.771562e-01         -0.3   0
## 768           1.499519e-02 -4.166667e-02          0.1   1
## 769           9.889987e-02  2.305556e-01          0.0   1
## 770          -1.310208e-03 -6.111111e-02          0.0   0
## 771          -3.393144e-02 -7.269338e-02         -0.2   0
## 772           6.160891e-03  2.575758e-01          0.3   1
## 773           6.559332e-02  2.363946e-01          0.2   1
## 774          -4.979163e-02 -1.969697e-01         -0.2   0
## 775           5.261554e-02  2.200000e-01          0.0   0
## 776          -5.157915e-03 -1.000000e-01         -0.1   0
## 777           2.338046e-02  1.400000e-01          0.0   0
## 778           2.432829e-02  1.297561e-01         -0.1   0
## 779          -1.772295e-02 -2.046660e-01          0.1   0
## 780          -4.421013e-02 -1.982281e-01         -0.2   0
## 781          -3.264627e-02 -1.600000e-01          0.1   1
## 782           2.267412e-04 -9.477124e-02         -0.1   0
## 783           1.473989e-02  0.000000e+00          0.1   1
## 784           6.480235e-02  1.818182e-01          0.1   1
## 785           3.250141e-02  1.776557e-01         -0.2   1
## 786          -2.222499e-02  2.539683e-02          0.0   0
## 787           2.595367e-02  1.698966e-01         -0.1   1
## 788           6.862325e-04  3.575990e-02          0.2   1
## 789           1.247676e-02  1.231527e-01          0.0   1
## 790           4.050867e-02  3.444444e-01          0.1   1
## 791          -4.144571e-02  2.164502e-02         -0.1   1
## 792           4.869789e-03 -7.407407e-02         -0.2   0
## 793           2.333992e-02 -2.070393e-03          0.0   0
## 794          -6.475137e-04  7.070707e-02          0.0   1
## 795          -1.134568e-02 -4.772727e-01         -0.4   0
## 796          -2.078250e-02  3.809524e-02          0.1   0
## 797          -4.499191e-02 -7.232969e-02          0.0   0
## 798          -2.187628e-02 -2.748447e-01         -0.4   0
## 799           1.212330e-01  3.000000e-01          0.5   0
## 800          -8.418296e-02 -1.764706e-01         -0.1   1
## 801          -2.528821e-02 -1.834734e-01          0.0   0
## 802          -5.906823e-02 -1.956522e-01         -0.2   1
```

```
## 803          -3.456893e-02 -1.666667e-01        -0.3   1
## 804          -5.393697e-02 -2.044352e-01        -0.5   0
## 805          -9.113230e-03 -1.955882e-01         0.1   0
## 806          -5.216681e-02  3.125000e-02         0.1   1
## 807          -4.322184e-02 -1.333333e-01        -0.1   1
## 808          -4.411126e-02 -1.025641e-01        -0.2   0
## 809          -8.840773e-02 -2.717391e-01         0.0   0
## 810           5.334159e-02  1.182796e-01         0.1   0
## 811           8.776907e-02  3.810445e-01         0.2   1
## 812          -4.012970e-02 -8.291203e-02         0.2   0
## 813          -1.914382e-02  2.758621e-03         0.0   0
## 814           2.533080e-02 -6.707317e-03         0.4   0
## 815          -1.230936e-02 -3.821340e-01        -0.2   0
## 816           9.993159e-02  4.293381e-01         0.2   0
## 817           6.413464e-02  1.926020e-01         0.1   0
## 818          -1.416216e-03 -1.363636e-01        -0.1   1
## 819           2.807660e-02  2.047619e-01         0.0   1
## 820          -6.252892e-03  3.571429e-01         0.2   1
## 821          -1.456862e-03  4.646465e-02        -0.2   1
## 822          -2.686547e-02  5.581395e-02         0.1   1
## 823          -3.060671e-03  1.820652e-01         0.3   1
## 824          -2.119812e-02  3.726708e-02        -0.1   0
## 825          -8.381960e-02 -2.962357e-01        -0.4   0
## 826           2.681866e-02  2.272727e-01         0.1   0
## 827           2.643537e-02  8.387097e-02        -0.1   1
## 828          -1.901591e-02 -1.105477e-01        -0.5   0
## 829           1.051973e-02  2.792793e-02         0.1   0
## 830           3.714152e-02  1.696970e-01         0.2   1
## 831          -2.328254e-02  7.843137e-02         0.2   1
## 832           2.811852e-02  7.407407e-02        -0.2   1
## 833          -4.730228e-02 -2.923588e-02         0.1   0
## 834          -5.078406e-02 -1.672932e-01        -0.2   1
## 835           1.007056e-03 -9.722222e-02         0.1   1
## 836           5.748288e-03  3.027027e-01         0.1   1
## 837          -6.580028e-02 -1.981132e-01        -0.3   0
## 838          -3.167456e-02 -1.163594e-01        -0.3   0
## 839          -2.570355e-03  0.000000e+00         0.0   0
## 840           9.043927e-02  7.954545e-02        -0.1   0
## 841          -2.153430e-02 -1.845888e-01         0.1   1
## 842           1.876405e-02  2.731554e-01         0.3   1
## 843          -3.309760e-02  4.126984e-02         0.1   1
## 844           3.284962e-02  1.979638e-01         0.3   1
## 845           8.017418e-03  2.708333e-01         0.2   0
## 846           3.360912e-02  9.693558e-02         0.1   1
## 847           5.090096e-02  2.115942e-01         0.3   1
## 848           1.323478e-02  1.230159e-01         0.1   1
## 849          -1.829695e-02  6.641366e-02         0.1   1
## 850           9.691159e-03 -3.690476e-01        -0.5   0
## 851          -8.619450e-03 -6.060606e-02        -0.2   0
## 852           8.573503e-02  2.572414e-01         0.2   1
## 853           1.378034e-02  2.305263e-01         0.0   0
## 854          -1.438296e-03  1.099537e-01         0.2   0
## 855          -8.633629e-02 -2.614865e-01        -0.2   0
## 856          -9.558046e-02 -2.983683e-01         0.1   0
## 857          -2.624014e-02 -2.926316e-01         0.0   1
## 858           1.986471e-02  1.760222e-01         0.1   1
## 859          -2.694275e-02 -4.656604e-01        -0.3   0
## 860           2.588414e-02  1.190476e-01        -0.1   1
```

```
## 861          -2.513110e-02 -4.555985e-02           -0.1   0
## 862          -4.247527e-02  1.087719e-01            0.1   1
## 863          -7.662833e-02 -2.450980e-01           -0.2   0
## 864          -3.236391e-02 -1.744272e-01            0.0   0
## 865           3.710624e-02  2.421652e-01           -0.1   0
## 866          -7.885153e-03  2.071429e-01            0.2   1
## 867           3.981907e-02  2.795004e-01            0.3   1
## 868           2.647198e-02 -1.394737e-01           -0.1   1
## 869           1.706583e-04  3.571429e-02            0.0   1
## 870          -1.757514e-02 -2.810976e-01           -0.1   0
## 871           4.559569e-02  1.911422e-01            0.2   0
## 872          -6.255880e-02 -2.879291e-02            0.0   0
## 873           3.948394e-02  7.045455e-02            0.0   0
## 874           4.656285e-02  2.456140e-01            0.1   0
## 875           5.278946e-02  3.560372e-02            0.1   0
## 876           3.385742e-03 -5.194805e-03           -0.3   1
## 877          -1.734411e-02 -1.069444e-01            0.0   1
## 878          -4.366234e-02  1.136364e-01            0.0   1
## 879          -5.540104e-02 -2.777778e-01           -0.1   1
## 880           9.176202e-03 -4.545455e-02           -0.1   0
## 881           5.098170e-02  2.136364e-01            0.3   1
## 882          -2.869661e-02 -1.574074e-01           -0.3   1
## 883          -2.474220e-02 -2.492877e-01           -0.1   0
## 884           5.634178e-02  1.329288e-01            0.2   1
## 885          -3.800080e-02  6.907895e-02           -0.2   0
## 886           5.188667e-02  3.323171e-01            0.5   1
## 887          -1.111518e-02 -1.494253e-02           -0.3   1
## 888          -2.245498e-02  7.692308e-02           -0.1   0
## 889          -1.364123e-02 -1.863395e-01           -0.3   0
## 890           2.455079e-02  1.452810e-01            0.0   0
## 891          -5.680973e-03 -1.628571e-01           -0.1   0
## 892          -2.977439e-02  7.638889e-02            0.0   0
## 893           1.179273e-01  3.287879e-01            0.1   1
## 894           2.346976e-02 -1.941392e-01           -0.4   0
## 895           1.065710e-01  2.225914e-01            0.4   1
## 896           7.236893e-03 -8.333333e-02           -0.1   0
## 897           8.542761e-02  5.292208e-01            0.4   1
## 898          -5.562983e-02 -1.303419e-01            0.1   1
## 899           1.828845e-02 -9.977324e-03            0.1   1
## 900           1.065140e-01  4.417314e-01            0.3   1
## 901           4.436094e-02  2.642643e-01            0.3   1
## 902           5.910081e-02  1.222222e-01            0.1   1
## 903          -2.729400e-02  5.584906e-02           -0.1   1
## 904          -1.512302e-02 -2.785714e-01            0.1   0
## 905           4.113875e-02 -1.120448e-02            0.4   1
## 906           4.033122e-02  1.733871e-01            0.5   1
## 907           2.039224e-02  1.638530e-02           -0.1   1
## 908          -3.993133e-02 -2.555168e-01           -0.1   0
## 909          -2.937820e-02 -6.221889e-02            0.0   0
## 910           8.009168e-02  2.242424e-01            0.2   1
## 911           6.056920e-02 -1.590909e-01           -0.3   0
## 912          -4.847170e-03 -2.319909e-01           -0.3   0
## 913           8.469997e-02  3.197368e-01            0.3   1
## 914          -6.192356e-02 -1.207407e-01            0.0   1
## 915          -4.743740e-03 -5.108557e-02           -0.2   1
## 916           1.911496e-02  8.678389e-02            0.2   1
## 917          -1.120747e-02  7.142857e-02            0.4   1
## 918          -6.098595e-02 -8.094357e-02            0.0   0
```

206

```
## 919          2.210298e-03 -7.608696e-02          -0.1   1
## 920         -6.047774e-02 -2.691007e-01          -0.2   1
## 921         -4.897716e-02 -8.260870e-02          -0.3   0
## 922         -2.760785e-02  1.691332e-02           0.0   0
## 923         -9.737873e-02 -5.295508e-02           0.1   0
## 924         -5.545360e-02 -1.526187e-01           0.0   0
## 925         -4.640520e-02 -7.916667e-02           0.2   1
## 926         -1.195146e-02 -5.253623e-02           0.1   0
## 927         -8.742605e-03 -6.868132e-02          -0.1   0
## 928          4.231345e-02  1.471264e-01           0.0   0
## 929         -3.597434e-03 -9.661836e-02           0.1   1
## 930         -1.760987e-02  1.300000e-01           0.1   1
## 931         -4.242647e-02  7.843137e-02           0.3   0
## 932          8.368611e-02  1.666667e-02          -0.1   0
## 933          6.637146e-02  5.978261e-02          -0.1   1
## 934         -1.320897e-02 -1.428571e-01          -0.2   1
## 935          5.994422e-02 -1.196755e-01           0.2   1
## 936         -7.490688e-02  4.395604e-02           0.2   0
## 937          1.034619e-03  1.801802e-01           0.3   0
## 938         -5.205045e-02 -1.128049e-01           0.1   0
## 939          2.883620e-02 -2.380952e-02           0.1   1
## 940         -1.369404e-02 -1.411600e-01          -0.2   0
## 941         -2.704624e-03 -1.612903e-01           0.0   0
## 942         -1.824479e-02 -5.833333e-02           0.1   0
## 943         -3.030320e-02 -8.035714e-02           0.1   1
## 944          5.879332e-02  1.602564e-01           0.1   1
## 945          2.467515e-02 -5.952381e-03          -0.2   0
## 946         -2.016564e-02 -1.206897e-01           0.1   0
## 947         -1.214728e-03  1.801802e-01          -0.1   1
## 948          3.560600e-02  2.214286e-01           0.3   0
## 949          1.544056e-02  1.805556e-01           0.1   0
## 950         -1.332181e-02  0.000000e+00           0.1   1
## 951         -1.329181e-02  1.570827e-01           0.1   0
## 952         -2.570250e-02 -1.168091e-01          -0.1   0
## 953         -1.880920e-02  1.713710e-02          -0.1   1
## 954         -1.583578e-02 -1.392082e-01          -0.3   1
## 955          9.262560e-03 -2.857143e-02          -0.1   1
## 956          3.339609e-03  2.886929e-02           0.0   1
## 957          1.419062e-02  5.964912e-02           0.1   0
## 958          2.349112e-02 -6.823529e-02          -0.3   1
## 959         -1.540741e-02 -4.407051e-02           0.0   0
## 960         -2.386800e-02 -1.515152e-01          -0.3   1
## 961          6.227356e-02  1.833333e-01           0.2   1
## 962         -7.812904e-04  2.272727e-02           0.2   1
## 963         -1.454326e-02 -8.055556e-02           0.0   0
## 964         -3.910005e-02 -9.459459e-02          -0.2   1
## 965          1.725921e-02  3.252033e-03          -0.1   1
## 966          2.891514e-02  3.333333e-02           0.1   0
## 967          6.576094e-02  4.603033e-01           0.4   1
## 968          2.702091e-02  1.307692e-01           0.1   1
## 969          1.183311e-02  2.465278e-01           0.2   1
## 970          2.900989e-02  3.198653e-01           0.2   0
## 971         -2.249379e-02 -2.606061e-01          -0.1   0
## 972          1.638251e-02  1.725826e-01          -0.2   1
## 973         -1.353198e-02 -3.958333e-02          -0.1   0
## 974         -5.271523e-02 -1.848837e-01           0.2   1
## 975          4.017538e-02  1.324786e-01           0.4   0
## 976          8.547161e-02  3.291855e-01          -0.1   1
```

```
## 977             2.589467e-02  2.727273e-01         0.3   1
## 978            -1.743224e-02  3.846154e-02         0.0   1
## 979            -8.612252e-03 -5.447154e-02        -0.3   1
## 980             4.672307e-02  1.263158e-01         0.3   1
## 981            -3.962594e-02 -1.785714e-01         0.0   0
## 982             2.281740e-02  2.134615e-01        -0.3   1
## 983            -4.153576e-02 -7.625483e-02         0.0   1
## 984             1.474627e-01  2.555556e-01         0.1   1
## 985            -4.635717e-03  9.038737e-02         0.2   1
## 986             3.382113e-02  1.558442e-01         0.0   0
## 987            -4.977857e-02 -3.070490e-01        -0.2   0
## 988            -7.601044e-02 -2.857143e-01        -0.2   0
## 989             7.803717e-02  1.131222e-02         0.3   1
## 990             8.208188e-03  8.590734e-02         0.3   1
## 991             5.026015e-02  1.000000e-01         0.1   1
## 992             1.510464e-01  3.885110e-01         0.4   1
## 993             2.237186e-02  2.456897e-01         0.3   0
## 994             1.653218e-02 -4.761905e-02         0.2   0
## 995             1.100026e-01  3.159968e-01         0.3   1
## 996             3.772505e-03  2.173913e-01         0.1   1
## 997             1.151549e-02 -1.227586e-01         0.0   1
## 998            -5.983820e-02 -2.664474e-01        -0.5   0
## 999             4.919030e-02  1.956522e-01        -0.1   1
## 1000            2.644956e-02 -9.890110e-02         0.0   0
## 1001            4.932134e-02  3.555556e-01         0.2   0
## 1002            1.776860e-03  9.090909e-02        -0.2   0
## 1003            5.074857e-02  3.378788e-01         0.2   1
## 1004           -2.424902e-02 -2.494090e-01        -0.3   1
## 1005            4.576596e-03  2.072072e-01         0.3   1
## 1006            3.280563e-03 -2.321429e-01        -0.2   0
## 1007           -7.396175e-03  5.303030e-02         0.0   0
## 1008            2.597726e-02  3.405405e-01         0.5   1
## 1009            1.668918e-03 -3.047619e-01        -0.5   0
## 1010           -5.759415e-02 -1.720154e-01         0.1   0
## 1011           -6.953680e-02 -2.214640e-01        -0.3   0
## 1012           -3.366854e-02 -1.457490e-01        -0.1   0
## 1013            4.149730e-02  2.001682e-01         0.0   1
## 1014           -8.069301e-02 -2.698210e-01        -0.1   0
## 1015           -1.878504e-02  1.168831e-01         0.2   0
## 1016           -2.446880e-02 -5.833333e-02        -0.2   0
## 1017           -1.899125e-02  5.959302e-02         0.0   0
## 1018           -5.246312e-02  1.597222e-01        -0.3   0
## 1019            6.097699e-03  1.488203e-01         0.1   1
## 1020           -9.537624e-02 -2.848485e-01         0.0   1
## 1021            5.037907e-04  4.827586e-02        -0.1   0
## 1022            1.302160e-01  2.958333e-01         0.4   1
## 1023           -9.476191e-03 -2.062193e-01        -0.4   0
## 1024            5.674041e-02  3.296703e-01         0.1   1
## 1025           -1.854859e-02  3.222222e-01         0.5   1
## 1026           -8.027809e-02 -2.825397e-01        -0.5   0
## 1027            7.816824e-02  4.363636e-01         0.5   1
## 1028           -6.161286e-02 -4.641933e-01        -0.3   0
## 1029            3.244126e-02  3.273427e-02        -0.2   1
## 1030            2.317120e-02  2.956656e-01        -0.2   1
## 1031           -7.711539e-03  8.547009e-02         0.2   0
## 1032            1.093709e-02 -4.682274e-02        -0.4   1
## 1033            1.688534e-02 -1.040989e-02        -0.1   1
## 1034           -5.404767e-02  3.090172e-02        -0.1   1
```

```
## 1035           -3.403494e-02 -1.240064e-01            -0.2   1
## 1036            1.187490e-02 -1.720779e-01             0.1   0
## 1037            3.725560e-03 -1.116139e-01             0.0   0
## 1038           -7.162137e-02 -3.153390e-01            -0.3   0
## 1039            1.304881e-02 -2.685185e-01            -0.2   0
## 1040            1.838816e-02  1.200000e-01             0.0   1
## 1041            9.168386e-03  7.453416e-02             0.2   0
## 1042           -1.006683e-01 -4.539216e-01            -0.5   0
## 1043            4.009170e-02  2.918587e-01             0.2   1
## 1044           -1.485102e-02 -1.410658e-02            -0.1   1
## 1045            9.790197e-03 -1.481481e-02             0.2   0
## 1046            3.357679e-03  2.119601e-01             0.1   1
## 1047            3.298427e-02 -5.555556e-03            -0.1   0
## 1048           -4.780149e-02  1.510204e-02             0.0   1
## 1049           -3.601096e-02 -8.719232e-02             0.1   0
## 1050           -5.156178e-02 -1.585695e-01            -0.3   0
## 1051           -6.201026e-02 -1.567460e-01            -0.1   0
## 1052            2.743443e-02  2.771619e-03            -0.1   0
## 1053            4.012662e-03  1.014634e-01             0.1   1
## 1054           -2.623462e-02 -8.055152e-02            -0.2   0
## 1055           -6.144933e-02 -1.795139e-01            -0.1   0
## 1056            6.344736e-02  5.010893e-02             0.1   0
## 1057            6.725806e-02  1.230769e-01             0.0   1
## 1058           -1.388724e-02 -3.492647e-02             0.1   0
## 1059            1.203564e-02  4.901961e-03             0.2   0
## 1060            1.413249e-02  0.000000e+00            -0.1   0
## 1061            3.396858e-02  7.469512e-02             0.0   0
## 1062           -2.606153e-05  1.722222e-01             0.1   1
## 1063            4.618318e-02  8.596491e-02             0.3   1
## 1064            1.360775e-02 -8.602151e-02            -0.1   0
## 1065           -4.352735e-02 -1.340502e-01             0.1   1
## 1066            2.944172e-02  3.508772e-02            -0.1   0
## 1067           -2.487358e-02 -2.303571e-01             0.1   0
## 1068           -4.767169e-02 -2.040816e-01            -0.4   0
## 1069            2.479922e-02  1.571429e-01             0.2   1
## 1070            3.408168e-03  3.296703e-02            -0.2   0
## 1071            5.625141e-03  5.699177e-02             0.1   0
## 1072           -6.177013e-02 -2.667984e-01            -0.1   0
## 1073            6.724204e-02  1.931818e-01             0.3   1
## 1074            1.200503e-02  1.432914e-01             0.0   1
## 1075            1.115510e-02 -5.387755e-02             0.3   1
## 1076           -1.397548e-02 -1.586867e-01            -0.2   0
## 1077            9.536965e-03 -9.545455e-02             0.0   1
## 1078            1.626868e-02  2.941176e-02             0.2   0
## 1079           -2.117930e-02 -1.382979e-01             0.0   0
## 1080            3.101922e-02  4.545455e-02             0.0   1
## 1081           -1.690187e-02 -2.635046e-03             0.0   1
## 1082           -2.082579e-02 -1.172727e-01            -0.1   1
## 1083            1.720966e-02  1.687980e-01             0.2   0
## 1084            1.425517e-02 -5.974026e-02            -0.1   0
## 1085            1.639423e-02 -5.000000e-02             0.0   1
## 1086           -5.836397e-02 -8.333333e-02             0.0   0
## 1087           -7.418449e-02  1.839080e-02            -0.1   0
## 1088           -1.560365e-02  0.000000e+00             0.1   1
## 1089            5.130371e-02  0.000000e+00             0.2   1
## 1090           -3.263099e-02  3.589744e-02            -0.1   1
## 1091            1.329527e-02  1.083333e-01             0.3   1
## 1092            1.485597e-02  1.392097e-01             0.1   1
```

```
## 1093          -5.093000e-02 -3.140351e-01          -0.3    0
## 1094           1.152697e-02  3.193548e-01           0.1    1
## 1095           2.825187e-02  1.813187e-01           0.4    1
## 1096          -3.800027e-02  1.970443e-01           0.1    0
## 1097          -5.542922e-02 -7.826087e-02           0.3    0
## 1098          -4.269429e-03  6.250000e-03           0.2    0
## 1099           5.798462e-02  2.380952e-03           0.0    0
## 1100           3.929559e-02  2.110694e-01           0.0    1
## 1101           5.207358e-02  1.726190e-01          -0.2    1
## 1102          -3.125368e-02 -8.658537e-02          -0.3    0
## 1103           1.626875e-02  1.208333e-01           0.1    0
## 1104           1.067573e-02  1.831897e-01           0.5    1
## 1105           4.923755e-02  1.540601e-01           0.1    1
## 1106          -1.064337e-02 -2.269022e-01          -0.1    0
## 1107          -1.219562e-02 -2.770563e-01          -0.4    1
## 1108           1.516275e-02 -2.299365e-01          -0.2    1
## 1109          -1.933082e-02 -1.827957e-01           0.0    1
## 1110           1.112908e-01  4.409769e-01           0.4    1
## 1111           5.586207e-02  2.394636e-01           0.1    0
## 1112           3.542469e-02  9.523810e-02          -0.1    0
## 1113          -4.399654e-02  1.840667e-02           0.1    1
## 1114           3.057064e-02  2.274011e-01           0.1    0
## 1115           2.088252e-03  7.500902e-02           0.0    1
## 1116          -1.440512e-02 -1.521739e-01           0.0    0
## 1117          -7.410339e-02 -3.389193e-01          -0.3    1
## 1118          -3.460861e-02 -2.419355e-01          -0.2    1
## 1119          -3.765793e-02 -7.777165e-02           0.1    1
## 1120          -1.378723e-02 -1.931818e-01           0.0    0
## 1121          -8.998704e-03 -1.208134e-01           0.1    0
## 1122           1.840421e-02  1.981567e-01           0.2    1
## 1123           8.234949e-02  4.598155e-01           0.7    1
## 1124           4.769236e-02  2.112045e-01           0.2    1
## 1125          -1.929729e-02 -1.527273e-01           0.1    1
## 1126           1.266257e-02  6.443798e-02           0.1    1
## 1127          -8.269103e-02 -3.014911e-01          -0.2    1
## 1128           6.735030e-03  1.113445e-01           0.0    1
## 1129          -2.851821e-02 -2.807018e-02          -0.1    0
## 1130          -3.171535e-02 -8.816327e-02          -0.1    0
## 1131           6.555468e-02  2.374768e-01           0.2    1
## 1132           3.605963e-02  3.396825e-01           0.4    1
## 1133          -2.689274e-02  7.228117e-02          -0.2    0
## 1134          -1.100594e-02 -1.995465e-01          -0.1    0
## 1135          -5.684923e-02 -2.178363e-01          -0.1    1
## 1136          -2.584320e-02  3.809524e-02           0.0    0
## 1137          -1.922176e-02  7.168459e-03           0.1    0
## 1138           8.853557e-02  3.029661e-01           0.5    1
## 1139           1.509282e-02 -1.666667e-02           0.4    1
## 1140          -2.720785e-02 -2.219114e-01           0.0    0
## 1141          -3.550435e-02 -2.585470e-01          -0.1    1
## 1142           6.260918e-03  1.682759e-01           0.6    0
## 1143          -6.918384e-03 -1.621212e-01          -0.2    1
## 1144          -1.580046e-02 -3.488372e-02           0.0    1
## 1145          -8.939332e-03 -1.274510e-01          -0.1    0
## 1146          -4.969193e-02 -3.755782e-01          -0.4    0
## 1147          -4.093985e-02 -1.174089e-01          -0.5    0
## 1148          -1.293111e-02 -2.913165e-02           0.0    1
## 1149          -1.435117e-02 -1.193443e-01           0.0    1
## 1150          -2.907110e-02 -1.155179e-02           0.1    0
```

```
## 1151          2.259983e-02  3.952569e-03          -0.2    0
## 1152         -3.092602e-02 -2.860991e-01          -0.3    0
## 1153          4.873272e-03  9.530583e-02          -0.1    1
## 1154          8.348256e-03  3.095238e-02           0.0    1
## 1155         -2.464518e-03  1.756757e-02           0.1    1
## 1156          1.043463e-02  9.607843e-02          -0.2    1
## 1157         -1.150318e-02 -1.738901e-01          -0.2    0
## 1158          2.675875e-02  9.455128e-02           0.1    1
## 1159          1.003443e-01  2.986656e-01           0.1    1
## 1160         -1.825314e-02  2.037037e-01          -0.1    1
## 1161         -5.155519e-02  6.666667e-03           0.0    0
## 1162         -4.717640e-03 -6.633292e-02          -0.2    1
## 1163          1.541674e-02 -1.916329e-02          -0.1    0
## 1164         -2.092627e-02 -1.540487e-01          -0.5    1
## 1165          9.997094e-02  1.333619e-01           0.0    0
## 1166         -5.435245e-02  9.696970e-02           0.1    1
## 1167         -7.407207e-02 -3.504274e-01          -0.2    0
## 1168          1.237816e-02  1.486742e-01           0.4    1
## 1169         -9.649575e-03 -1.666667e-01          -0.2    0
## 1170          1.414363e-02 -2.158849e-02          -0.1    0
## 1171          7.374647e-02  2.164979e-01           0.1    1
## 1172          1.442345e-02  1.547619e-01          -0.2    1
## 1173          8.840323e-03  9.894737e-02          -0.1    0
## 1174         -1.575428e-02  1.267334e-01          -0.1    0
## 1175          1.403078e-02  1.611722e-01           0.1    1
## 1176         -2.662091e-02 -1.519700e-01          -0.3    1
## 1177         -6.523411e-03 -1.265574e-01           0.0    1
## 1178          3.457708e-02  2.149883e-01           0.2    0
## 1179         -1.245025e-06  9.789790e-02           0.2    1
## 1180         -6.123157e-02 -2.504579e-01          -0.2    0
## 1181         -3.670936e-02  6.562848e-02          -0.2    1
## 1182         -1.451298e-02 -1.515152e-02           0.0    0
## 1183          1.225559e-02 -1.800000e-01           0.1    0
## 1184         -8.139149e-03  1.711916e-01           0.3    1
## 1185         -3.918643e-02 -2.064103e-01           0.0    1
## 1186          1.198196e-01  2.902098e-01           0.5    1
## 1187         -9.852738e-03  1.476415e-01           0.0    0
## 1188         -2.410044e-02 -1.639785e-01          -0.6    0
## 1189          6.287337e-02  1.481481e-01           0.0    1
## 1190         -2.330404e-02  1.595745e-01           0.3    1
## 1191          2.549382e-03 -2.636364e-02          -0.3    0
## 1192         -3.931321e-02 -1.942175e-01          -0.2    0
## 1193          1.378636e-02  1.990232e-01           0.0    1
## 1194          3.583716e-02 -2.222222e-02           0.2    0
## 1195         -4.915397e-02 -2.412412e-01           0.0    1
## 1196          9.869433e-04  1.797386e-02           0.2    1
## 1197         -1.674061e-02  1.754386e-02           0.1    1
## 1198          5.543196e-03  1.725490e-01           0.4    0
## 1199         -3.547663e-02 -1.933830e-01          -0.1    0
## 1200          3.602369e-02  1.508951e-01           0.5    1
## 1201          5.283387e-03 -2.664797e-02          -0.1    0
## 1202         -6.729719e-03 -1.396226e-01          -0.2    0
## 1203          5.367428e-02  2.071104e-01          -0.2    1
## 1204          9.175754e-02  1.899814e-01          -0.1    0
## 1205         -3.135298e-02  1.960784e-02           0.1    0
## 1206         -7.362324e-04 -1.836945e-01          -0.4    0
## 1207         -6.049921e-02 -2.527083e-01          -0.2    1
## 1208         -2.251483e-02 -1.811847e-01           0.2    0
```

```
## 1209       -2.940420e-02 -2.254902e-01        -0.1   0
## 1210        2.292890e-02  1.439206e-01         0.3   1
## 1211        1.331218e-02 -3.099274e-02        -0.1   1
## 1212        7.792957e-02  3.142097e-01         0.4   1
## 1213       -5.865464e-02 -1.000000e-01         0.4   1
## 1214       -2.051914e-02  1.220159e-01         0.1   1
## 1215        2.943028e-02  2.710623e-02         0.2   0
## 1216        4.363463e-05 -3.076923e-02         0.0   0
## 1217        3.001585e-02  9.035088e-02         0.2   1
## 1218       -8.819838e-03 -1.718179e-01         0.0   0
## 1219       -4.376343e-02 -1.079421e-01        -0.2   0
## 1220       -5.278246e-02 -2.701149e-02         0.0   0
## 1221       -3.317029e-02 -7.281858e-02        -0.1   1
## 1222       -7.720602e-02  1.078431e-01         0.0   1
## 1223       -5.657482e-03 -2.794613e-01        -0.4   0
## 1224       -3.952364e-02 -7.389937e-02        -0.2   1
## 1225       -2.169970e-02 -4.545455e-02         0.1   1
## 1226       -4.765450e-02 -2.026515e-01        -0.2   0
## 1227        2.651482e-02  0.000000e+00        -0.1   1
## 1228       -2.346262e-02 -1.410256e-01        -0.3   1
## 1229        6.608803e-03  2.164502e-02         0.2   0
## 1230       -2.656014e-02 -1.789819e-01        -0.4   0
## 1231        2.704302e-02 -1.126374e-01         0.2   1
## 1232        6.640559e-03 -1.068525e-01        -0.2   0
## 1233       -1.265648e-02 -6.341463e-02        -0.5   0
## 1234        5.486714e-02  1.705882e-01         0.2   1
## 1235        2.098355e-02  3.396739e-02         0.1   0
## 1236       -5.367828e-02 -3.000000e-01        -0.4   1
## 1237       -4.031902e-02 -5.819102e-02         0.0   0
## 1238       -7.364172e-02 -1.744361e-01         0.0   1
## 1239        7.262092e-02  4.071429e-01         0.2   1
## 1240        2.571296e-02  1.672241e-02         0.1   1
## 1241       -4.567436e-02 -3.555556e-01        -0.4   0
## 1242        2.031430e-02  1.458898e-01         0.1   0
## 1243       -2.722785e-02 -1.596639e-01         0.1   0
## 1244        5.632609e-02  0.000000e+00         0.0   1
## 1245        1.328829e-02 -6.119951e-02        -0.2   1
## 1246        5.591395e-03  9.677419e-02        -0.2   1
## 1247       -6.435958e-02 -2.123341e-01         0.4   1
## 1248       -3.830861e-02 -2.357143e-01        -0.2   1
## 1249        3.672252e-02  1.858974e-01         0.0   1
## 1250       -8.896232e-03 -2.049180e-01        -0.1   0
## 1251       -5.443153e-02 -2.777778e-02         0.0   1
## 1252       -2.797758e-02 -1.076265e-01        -0.1   0
## 1253        2.248893e-02  1.552106e-01         0.3   1
## 1254       -9.136683e-04  4.487179e-02         0.0   1
## 1255       -3.999199e-03 -1.159951e-01         0.0   0
## 1256        1.169030e-02  1.162791e-02        -0.3   0
## 1257        6.238047e-02  2.341842e-01         0.1   1
## 1258       -2.482670e-02 -1.508539e-01        -0.1   1
## 1259        6.337422e-02  6.708494e-02         0.1   1
## 1260        5.055795e-02  2.118570e-01         0.2   1
## 1261        5.450506e-03 -7.233796e-02         0.0   0
## 1262       -1.086208e-02 -7.142857e-02         0.4   0
## 1263       -5.406279e-04 -5.398111e-02         0.3   1
## 1264       -4.994755e-02 -2.261905e-01        -0.2   0
## 1265        3.855993e-02 -1.061008e-01        -0.2   0
## 1266       -4.158633e-03 -3.723077e-01        -0.3   0
```

```
## 1267         5.857580e-02  1.410138e-01          0.4   0
## 1268         7.903031e-02  1.676471e-01          0.0   1
## 1269        -1.998263e-02 -2.111111e-01         -0.2   0
## 1270         7.033262e-03 -3.111888e-01         -0.3   1
## 1271         6.368344e-02  1.806818e-01          0.3   1
## 1272         3.195601e-02  1.074197e-01          0.1   1
## 1273         1.175926e-02  1.248207e-01          0.3   0
## 1274        -3.421559e-02 -7.028424e-02         -0.6   0
## 1275        -4.540216e-03 -5.087209e-02         -0.1   1
## 1276         6.346214e-03 -2.166667e-01         -0.2   0
## 1277        -8.120797e-02 -1.138889e-01         -0.1   0
## 1278         1.712571e-02  2.059099e-01          0.6   0
## 1279        -1.003972e-02 -1.615581e-01         -0.4   1
## 1280        -8.026822e-02 -9.153318e-02          0.1   1
## 1281        -3.382030e-02 -5.291005e-02         -0.1   1
## 1282         5.120724e-02  2.342342e-01          0.2   0
## 1283        -1.799609e-02 -3.055556e-01         -0.3   0
## 1284         3.089849e-02  1.523810e-01          0.2   0
## 1285         5.774791e-02  2.094017e-01          0.0   1
## 1286        -6.582073e-03 -6.352087e-02          0.0   0
## 1287        -5.165398e-02 -1.820513e-01          0.2   0
## 1288         4.521164e-02  8.977273e-02          0.2   0
## 1289        -6.880471e-02 -2.752525e-01         -0.4   0
## 1290         2.277223e-02 -5.720621e-02         -0.1   0
## 1291        -9.101878e-02 -1.250000e-01         -0.1   0
## 1292         2.406353e-02  1.789474e-01          0.1   1
## 1293        -4.514555e-02 -4.727273e-02         -0.1   0
## 1294        -3.630243e-02 -2.327189e-01         -0.3   0
## 1295        -2.783871e-02 -1.481481e-01          0.1   1
## 1296         3.545834e-02 -3.216123e-02         -0.1   1
## 1297        -4.229692e-02  8.241758e-02          0.4   0
## 1298        -4.421471e-02 -2.391304e-01         -0.1   0
## 1299         3.977572e-02  2.376396e-01          0.0   1
## 1300        -2.578773e-02  2.523810e-01         -0.1   0
## 1301        -1.993346e-02 -9.090909e-02          0.0   1
## 1302         1.069243e-01  2.666667e-01          0.1   1
## 1303         3.678597e-03  5.923345e-02          0.2   1
## 1304        -8.082292e-02 -2.603774e-01          0.1   0
## 1305        -8.379638e-03  0.000000e+00          0.2   1
## 1306         3.035838e-02 -7.536232e-02         -0.1   0
## 1307        -8.645910e-03 -7.910529e-02          0.1   0
## 1308         4.568105e-02  1.451613e-01          0.1   1
## 1309         4.384331e-02  1.041667e-01         -0.3   1
## 1310         5.534079e-02  7.142857e-04          0.0   0
## 1311        -2.071090e-02 -1.933356e-01         -0.2   1
## 1312        -3.934230e-03 -1.260315e-01          0.2   0
## 1313        -4.582642e-02 -1.538462e-01          0.0   0
## 1314        -1.211414e-02  3.157895e-02         -0.1   0
## 1315        -2.296479e-03  1.925926e-01          0.3   1
## 1316        -1.358411e-02 -3.008396e-02          0.1   1
## 1317         1.816912e-02  1.515152e-02         -0.1   0
## 1318        -8.770107e-03 -8.333333e-02         -0.1   1
## 1319        -1.195772e-02  6.332083e-02          0.1   1
## 1320         3.074741e-02  1.219512e-02         -0.1   0
## 1321        -5.165503e-02 -3.850267e-02         -0.2   1
## 1322        -1.386439e-02 -2.475524e-01         -0.1   0
## 1323         5.167905e-03  4.369748e-02          0.1   1
## 1324         3.430838e-02  1.587302e-01          0.1   0
```

```
## 1325           1.180841e-02  1.922631e-01         0.4    1
## 1326           4.482673e-02 -7.142857e-02        -0.1    0
## 1327           4.489024e-02  3.395833e-01         0.1    1
## 1328          -3.494798e-02 -2.013889e-02        -0.2    0
## 1329          -4.621372e-02 -8.055854e-02         0.1    1
## 1330           2.458755e-02  2.272727e-02         0.0    0
## 1331          -2.139038e-02  1.388889e-02        -0.1    0
## 1332          -2.182089e-02 -1.474887e-01         0.0    0
## 1333           2.871310e-02  2.853059e-01         0.6    1
## 1334           4.620985e-02  2.102628e-01         0.3    1
## 1335           2.654269e-02  2.469043e-01         0.1    0
## 1336          -2.994209e-02 -7.772304e-02         0.0    0
## 1337          -4.996314e-02 -1.277778e-01        -0.3    1
## 1338          -1.457971e-02  5.964912e-02         0.1    0
## 1339           1.693442e-02 -1.430700e-01         0.2    1
## 1340           2.721615e-02  4.975610e-02        -0.4    1
## 1341           4.292741e-02  1.084011e-03        -0.3    1
## 1342           1.845333e-02  3.361111e-01         0.2    1
## 1343           2.379331e-02  2.314815e-03        -0.1    0
## 1344           3.473841e-02  2.745536e-01         0.1    1
## 1345          -9.644171e-03 -1.432553e-01         0.0    1
## 1346          -1.604258e-02  6.022409e-02        -0.3    0
## 1347          -3.210746e-02 -2.397260e-01        -0.4    0
## 1348          -2.834202e-02 -1.678322e-02         0.1    0
## 1349          -4.899330e-02 -7.142857e-02         0.0    1
## 1350          -1.268303e-02  3.112203e-02         0.1    1
## 1351           5.221643e-02  2.344715e-01         0.1    1
## 1352          -6.132051e-02 -3.241279e-01        -0.2    0
## 1353           1.009592e-03  1.785714e-02        -0.1    0
## 1354          -2.979036e-02 -7.319149e-02         0.1    1
## 1355          -5.095900e-02 -3.257576e-01        -0.1    0
## 1356           5.333280e-02  1.126847e-01         0.1    1
## 1357           2.187427e-02  5.158730e-02        -0.1    0
## 1358          -5.641869e-02 -3.715239e-01        -0.2    0
## 1359          -3.730180e-02 -2.861244e-01         0.0    0
## 1360          -3.370783e-02 -2.192982e-01        -0.2    1
## 1361          -1.323154e-02 -1.370998e-01        -0.4    0
## 1362          -3.624960e-02 -1.951872e-01        -0.3    0
## 1363          -1.191915e-01 -2.158809e-01         0.1    1
## 1364           3.425765e-02  1.015038e-01         0.2    1
## 1365          -2.786501e-03 -1.923077e-01        -0.4    0
## 1366          -1.849605e-02  1.704918e-01         0.4    1
## 1367           5.542238e-02  3.037567e-01         0.4    1
## 1368           2.719283e-05 -6.756757e-02        -0.2    0
## 1369           1.144684e-01  2.854433e-01         0.0    1
## 1370           2.145540e-02 -1.059524e-01        -0.1    0
## 1371          -7.914449e-02 -1.428571e-01        -0.3    0
## 1372          -5.323026e-02 -3.218391e-01        -0.4    1
## 1373          -8.542295e-03 -2.639895e-01         0.0    0
## 1374          -7.449973e-02 -2.996633e-01        -0.3    0
## 1375           9.666166e-02  1.668521e-03        -0.1    1
## 1376          -2.369363e-02 -8.245614e-02         0.1    1
## 1377          -1.127010e-03  4.027778e-01         0.5    1
## 1378          -2.984952e-02  4.123451e-02         0.2    1
## 1379           5.613238e-03  2.074795e-01         0.1    1
## 1380           5.372170e-02  3.891403e-02         0.0    1
## 1381          -3.835112e-02 -1.666667e-01        -0.3    0
## 1382          -3.170688e-02 -1.206140e-01        -0.1    1
```

```
## 1383        -7.092343e-02 -6.169213e-02        -0.1   1
## 1384         2.760014e-02  2.500000e-01        -0.1   1
## 1385        -1.119884e-02 -2.777778e-02         0.0   0
## 1386        -1.551696e-02  8.771930e-03        -0.2   0
## 1387        -4.333425e-02 -1.632883e-01        -0.1   1
## 1388        -4.295449e-03  1.162791e-02        -0.4   0
## 1389         4.883365e-02  3.793691e-02        -0.4   1
## 1390         3.751488e-02  8.187135e-02         0.1   1
## 1391        -3.594132e-02 -2.010786e-01        -0.3   1
## 1392         4.040542e-02  5.465192e-02         0.3   0
## 1393         3.233133e-02  4.552202e-02        -0.1   1
## 1394         5.970076e-02  2.704652e-02        -0.1   0
## 1395        -3.687626e-02 -1.820192e-01        -0.3   0
## 1396         2.595208e-02  1.342738e-01        -0.1   0
## 1397        -2.650822e-02 -2.162765e-01        -0.3   0
## 1398         1.062133e-01  3.815789e-01         0.4   1
## 1399        -2.989998e-02  2.073365e-02        -0.2   0
## 1400        -3.329698e-02 -1.384845e-01         0.0   0
## 1401        -1.582052e-02  1.697995e-01         0.1   1
## 1402         2.293149e-02  2.826825e-01         0.1   1
## 1403         9.098325e-02  2.568627e-01        -0.1   1
## 1404         1.651737e-02 -1.060097e-01        -0.3   1
## 1405        -1.287614e-02 -8.476190e-02         0.0   0
## 1406        -1.808552e-02 -1.339250e-01         0.0   0
## 1407         8.987581e-02  2.444444e-01         0.0   1
## 1408        -1.806543e-02 -3.057709e-02         0.0   0
## 1409        -3.430959e-02 -9.861325e-02        -0.2   1
## 1410        -2.971185e-02 -1.477273e-01        -0.1   0
## 1411        -6.618159e-02 -2.952381e-01        -0.4   0
## 1412         8.889993e-03  9.610390e-02         0.0   0
## 1413        -1.276816e-02 -8.620690e-02        -0.3   0
## 1414         4.680724e-03  1.670844e-03         0.3   1
## 1415         6.525889e-02  1.663251e-01         0.3   1
## 1416        -5.293754e-03 -1.960784e-02        -0.1   0
## 1417         5.173913e-02  5.823864e-02        -0.2   0
## 1418        -1.204058e-02  2.205638e-01         0.3   0
## 1419        -5.513939e-02 -1.690141e-01        -0.2   0
## 1420         2.490084e-02  5.610754e-02         0.0   0
## 1421        -5.987474e-02 -6.404862e-02         0.0   1
## 1422         1.786590e-02 -5.700483e-02         0.0   1
## 1423        -6.420634e-02 -1.384181e-01        -0.1   1
## 1424         9.395527e-03  1.398176e-01         0.2   1
## 1425         3.012472e-02  1.830986e-02        -0.1   1
## 1426        -5.816527e-02 -4.145299e-01        -0.4   0
## 1427        -3.013371e-02  6.449468e-02         0.0   0
## 1428         1.343226e-02  3.061224e-02         0.0   0
## 1429        -5.212856e-02 -4.946237e-02        -0.2   0
## 1430        -3.135602e-02 -5.612245e-03        -0.1   0
## 1431         5.683524e-02  1.647727e-01         0.1   1
## 1432         2.720179e-02  1.276316e-01         0.2   0
## 1433         1.947268e-02 -1.718750e-01         0.1   1
## 1434         4.129405e-02  1.898977e-01         0.2   1
## 1435         5.133548e-02 -5.505506e-02         0.2   0
## 1436        -1.356083e-02 -5.050505e-03         0.0   0
## 1437         5.113020e-02  3.093607e-01         0.5   1
## 1438        -4.571120e-02 -2.045991e-01        -0.1   1
## 1439         1.869582e-02 -8.545455e-02         0.2   1
## 1440         3.274813e-02  6.945019e-02         0.0   0
```

```
## 1441          -5.747686e-02 -2.402746e-01          -0.3  0
## 1442          -9.472063e-02 -2.767361e-01          -0.1  0
## 1443           5.149586e-03  1.552106e-02          -0.1  0
## 1444          -5.555618e-02 -1.820728e-02          -0.1  0
## 1445           9.091931e-02  1.549451e-01           0.1  1
## 1446           3.329884e-02  1.745098e-01           0.2  1
## 1447           5.369631e-02  2.870130e-01           0.2  1
## 1448          -5.376886e-02 -3.927730e-02           0.1  1
## 1449           1.439744e-01  2.805861e-01          -0.1  1
## 1450          -1.398476e-01 -7.982456e-01          -0.7  0
## 1451           7.871496e-02  3.333333e-01           0.3  1
## 1452           7.743289e-02  1.324324e-01           0.0  1
## 1453          -6.816104e-02 -1.727273e-01          -0.2  1
## 1454          -1.623213e-02 -1.024750e-01           0.1  0
## 1455          -8.631542e-02 -2.497213e-01          -0.1  0
## 1456           3.754866e-02  4.230769e-01           0.5  1
## 1457          -4.303026e-02 -1.486310e-01          -0.1  0
## 1458           4.805411e-03  1.666667e-01           0.0  1
## 1459          -1.725302e-02  4.873294e-03           0.2  0
## 1460          -1.095965e-02 -4.010462e-02           0.3  0
## 1461          -1.226018e-02 -3.750000e-02           0.1  0
## 1462          -3.226296e-02 -1.176471e-01          -0.2  0
## 1463           2.312101e-02  6.451613e-02           0.4  1
## 1464          -3.927505e-03  2.917772e-02           0.0  0
## 1465          -9.352868e-02 -3.940678e-01          -0.2  1
## 1466          -4.921174e-02 -1.333333e-01           0.1  0
## 1467           7.549546e-02  4.357485e-01           0.4  1
## 1468          -5.117402e-03 -1.075873e-01           0.1  0
## 1469          -5.406099e-02 -3.717949e-02           0.0  0
## 1470           5.392904e-02  9.731801e-02           0.0  1
## 1471           2.898951e-02  1.081340e-01           0.2  1
## 1472           5.906733e-02  2.583919e-01           0.1  0
## 1473          -1.258160e-02 -1.640212e-01          -0.4  0
## 1474           2.587112e-02  1.334842e-01           0.0  0
## 1475          -9.070587e-02 -4.493243e-01          -0.5  0
## 1476          -1.143389e-01 -2.549751e-01           0.0  0
## 1477           3.507361e-02  2.767722e-01           0.3  1
## 1478          -2.418454e-02 -2.641326e-01          -0.1  0
## 1479          -7.371836e-02 -4.166667e-02           0.1  1
## 1480           3.171584e-02  1.126482e-01          -0.2  1
## 1481          -2.970822e-02 -9.156535e-02          -0.1  0
## 1482           7.609570e-02  1.645963e-01           0.2  1
## 1483          -5.903678e-02 -2.485417e-01          -0.1  0
## 1484           3.022037e-02 -1.443850e-02          -0.2  0
## 1485           6.003112e-02  2.534229e-01           0.2  0
## 1486           1.176921e-02  0.000000e+00           0.1  0
## 1487          -4.290303e-02 -1.414474e-01          -0.2  0
## 1488          -2.483355e-02 -1.547619e-01          -0.1  0
## 1489          -6.419282e-02 -1.911688e-01          -0.2  0
## 1490           2.683794e-02  1.517857e-01           0.2  1
## 1491           9.868763e-02  1.363636e-01           0.2  0
## 1492           2.450454e-02  1.098901e-01           0.3  1
## 1493           5.136409e-03 -3.276956e-02          -0.2  0
## 1494           5.099693e-03  4.826255e-03           0.0  0
## 1495           3.520126e-02  1.020408e-02           0.2  0
## 1496           3.720175e-02  2.401070e-01           0.1  1
## 1497           8.126663e-02  3.852941e-01           0.4  1
## 1498          -2.916042e-02 -7.804878e-03           0.0  1
```

216

```
## 1499          2.266643e-02  4.716981e-02        0.0   0
## 1500         -5.388826e-02  7.619048e-02        0.1   0
## 1501          2.729584e-02  4.395604e-03        0.0   0
## 1502          2.988441e-02  1.556122e-01        0.2   0
## 1503          2.666262e-02 -6.944444e-03        0.3   0
## 1504         -6.059483e-03  7.897287e-02        0.1   0
## 1505          6.947270e-02  2.730015e-01        0.3   1
## 1506         -3.968666e-02 -1.439716e-01        0.2   1
## 1507          5.777466e-02  1.129032e-01       -0.1   1
## 1508          1.067764e-01  1.586957e-01        0.3   1
## 1509          1.037733e-02  1.454545e-01       -0.2   0
## 1510          4.781088e-02  1.224696e-01       -0.1   1
## 1511         -1.726463e-02  9.415584e-02       -0.1   1
## 1512         -1.372123e-02 -8.620690e-02       -0.3   1
## 1513          1.149276e-02  2.190476e-01        0.4   1
## 1514          4.573990e-02  1.719577e-01        0.2   1
## 1515          5.293696e-02  2.047619e-01       -0.1   1
## 1516          3.263620e-02  2.206096e-02        0.0   1
## 1517         -1.184401e-02 -1.519951e-01        0.0   0
## 1518         -4.338047e-02 -1.308216e-01       -0.3   0
## 1519          5.327694e-03 -1.277878e-01       -0.3   0
## 1520          1.515406e-02  6.097561e-02        0.0   1
## 1521         -3.632811e-03  1.122807e-01       -0.1   0
## 1522          4.224574e-02  9.396966e-02        0.1   1
## 1523         -5.106415e-02  1.106557e-01        0.1   1
## 1524          1.812301e-02  6.486742e-02       -0.1   0
## 1525          2.546378e-02  6.818182e-02        0.1   1
## 1526         -3.177280e-02 -2.717391e-01       -0.1   0
## 1527          1.357716e-02  3.968254e-02       -0.1   0
## 1528         -1.852962e-02  1.045828e-01        0.2   1
## 1529         -1.797600e-04  4.311774e-03        0.1   1
## 1530         -1.576108e-02  1.007147e-02       -0.2   0
## 1531          7.584628e-03 -6.839945e-03        0.0   1
## 1532          1.451937e-01  7.211538e-01        0.6   1
## 1533          7.112572e-02  9.230769e-02        0.0   0
## 1534          5.098594e-02  2.561404e-01        0.1   0
## 1535          6.022685e-02  9.065934e-02        0.0   1
## 1536          9.148927e-02  2.247769e-01        0.3   1
## 1537          3.228924e-02  3.819629e-01        0.4   1
## 1538         -9.973544e-02 -7.484407e-02       -0.1   1
## 1539          5.346709e-02  2.546296e-02       -0.1   1
## 1540          1.489253e-03  1.306865e-01        0.2   1
## 1541         -2.402133e-02 -2.651885e-01       -0.4   0
## 1542         -6.023254e-02 -2.500637e-01       -0.5   0
## 1543         -5.047886e-02 -1.939655e-01       -0.2   0
## 1544         -8.724273e-03 -1.081967e-01       -0.1   1
## 1545         -2.697776e-02  6.020408e-02        0.2   0
## 1546          1.080590e-02  7.359307e-02        0.1   1
## 1547         -3.856969e-02 -1.618415e-01       -0.4   0
## 1548         -8.452317e-02  0.000000e+00        0.0   1
## 1549          1.032695e-02  1.681079e-01        0.1   1
## 1550          3.622112e-02  1.566820e-02        0.1   0
## 1551          1.094580e-01  6.564103e-01        0.7   1
## 1552          7.121830e-02  1.649306e-01        0.1   1
## 1553          1.309767e-02 -1.142857e-01        0.0   0
## 1554         -2.756567e-03  6.223359e-02        0.2   0
## 1555          1.766526e-02 -8.130081e-03        0.2   1
## 1556         -5.800913e-02 -1.145833e-01       -0.1   0
```

```
## 1557         -8.011030e-03 -2.615385e-01        0.0   0
## 1558          8.213152e-02  2.428571e-01        0.1   1
## 1559         -3.838341e-02 -3.166895e-01       -0.3   0
## 1560         -8.077326e-03 -1.797101e-01       -0.2   0
## 1561          7.643504e-02  1.428571e-01        0.0   0
## 1562         -4.365731e-02 -2.758170e-01       -0.2   0
## 1563          1.565574e-01  3.897059e-01        0.4   1
## 1564         -2.038703e-02  1.917293e-01        0.3   1
## 1565         -3.581788e-02 -2.666667e-01       -0.3   0
## 1566         -3.714644e-02 -3.088972e-01       -0.5   0
## 1567         -4.514348e-02 -9.011628e-02       -0.2   1
## 1568         -1.238016e-02  1.787207e-01        0.6   1
## 1569         -3.105652e-02 -2.422222e-01       -0.4   0
## 1570          4.825251e-02  9.824561e-02        0.2   1
## 1571          1.301835e-04 -2.142857e-01       -0.2   0
## 1572         -9.319416e-02 -2.729508e-01       -0.2   1
## 1573          5.960870e-03 -2.372228e-01       -0.1   0
## 1574         -5.572868e-02 -2.000000e-02        0.2   0
## 1575          3.351496e-02  1.742424e-01        0.4   1
## 1576          8.000408e-02  3.974359e-01        0.5   1
## 1577         -1.412650e-01 -5.194004e-01       -0.4   0
## 1578         -6.924087e-02 -2.555746e-01        0.0   1
## 1579          5.055761e-02  9.438009e-02       -0.1   1
## 1580         -2.752715e-02 -1.601776e-01        0.3   0
## 1581         -6.870729e-02 -2.663438e-01       -0.2   0
## 1582         -3.565536e-03  1.500000e-01        0.1   0
## 1583         -7.625734e-02 -4.257028e-01       -0.7   0
## 1584         -1.830627e-02  0.000000e+00        0.1   1
## 1585          4.230969e-02  2.157143e-01        0.2   1
## 1586          9.051955e-02  3.531864e-01        0.6   1
## 1587          1.946175e-02  1.944444e-01        0.3   1
## 1588         -6.355472e-02 -2.627049e-01       -0.3   0
## 1589          3.233492e-02  5.604396e-02       -0.1   1
## 1590         -5.690336e-02 -1.818182e-01       -0.1   0
## 1591          6.996405e-02  1.994681e-01        0.1   0
## 1592         -1.277908e-02  1.360544e-01       -0.4   1
## 1593          4.163143e-02  1.728873e-01        0.0   1
## 1594          1.767600e-02 -2.220779e-01       -0.4   0
## 1595         -2.586174e-03 -2.387042e-01       -0.2   0
## 1596         -1.505111e-01 -4.681159e-01       -0.3   0
## 1597          2.950433e-02 -1.730605e-01        0.0   1
## 1598          9.986206e-02  2.935484e-01        0.4   1
## 1599         -3.986638e-02 -2.490119e-01       -0.2   1
## 1600         -4.531765e-02 -1.435803e-01       -0.1   0
## 1601         -2.704942e-03  6.736243e-02       -0.1   0
## 1602         -5.784815e-02 -2.354430e-01       -0.2   0
## 1603         -1.076896e-01 -5.447154e-01       -0.5   0
## 1604          3.659596e-02 -4.536290e-03        0.1   0
## 1605         -5.549155e-03 -1.255411e-01       -0.3   0
## 1606         -2.152592e-02 -1.764706e-01       -0.1   1
## 1607          1.061479e-02  4.572381e-02        0.1   1
## 1608         -2.825269e-02 -1.517715e-01       -0.3   0
## 1609          2.747899e-02  3.426529e-02        0.0   1
## 1610         -5.841906e-02 -2.598771e-01        0.2   0
## 1611          8.233804e-03  5.277778e-02       -0.1   1
## 1612          5.695713e-03  1.798793e-01        0.0   1
## 1613          8.728293e-02  3.130952e-01        0.1   1
## 1614         -2.408652e-02 -1.345171e-02       -0.1   0
```

```
## 1615          1.225531e-02 -2.915682e-02          0.0   1
## 1616          7.023747e-02  2.990385e-01          0.3   1
## 1617          4.491319e-02  2.287244e-01          0.2   1
## 1618         -1.896606e-02  1.647059e-01          0.3   1
## 1619          4.069965e-02  2.307692e-01          0.4   0
## 1620          1.583584e-02  7.936508e-02          0.0   1
## 1621          5.619366e-02  4.084967e-03          0.2   1
## 1622         -1.172536e-02  1.171136e-01          0.2   1
## 1623         -6.337200e-02 -5.798122e-02          0.1   1
## 1624          7.115465e-02  3.395062e-01          0.4   1
## 1625          3.788275e-02  1.135105e-01         -0.1   0
## 1626          2.569870e-02  2.216981e-01          0.1   1
## 1627         -4.372198e-02  9.284627e-02          0.0   1
## 1628          4.107540e-02  1.201519e-01          0.0   1
## 1629         -3.319769e-03  1.626879e-02          0.1   0
## 1630          5.700392e-02  6.255158e-02          0.2   0
## 1631          1.358841e-02 -2.620803e-02          0.0   0
## 1632         -3.126303e-02  2.134454e-01          0.3   1
## 1633         -5.096597e-03  1.517165e-01          0.3   0
## 1634         -1.102946e-02  6.060606e-03          0.0   1
## 1635          8.954040e-02  4.285714e-01          0.4   0
## 1636         -4.978412e-03 -8.503626e-02         -0.2   0
## 1637         -5.467115e-02 -1.363636e-01          0.1   0
## 1638         -2.334474e-02 -2.380952e-02         -0.1   1
## 1639         -1.109523e-02 -1.392857e-01         -0.2   0
## 1640          4.222101e-02  2.173913e-02          0.0   1
## 1641          4.817390e-02  2.666667e-01          0.2   1
## 1642          9.307562e-02  3.448276e-01          0.3   0
## 1643         -3.979725e-02  6.250000e-02          0.0   0
## 1644          9.500550e-02  1.051805e-01          0.2   1
## 1645          7.211387e-02  3.224432e-01          0.0   1
## 1646          2.527674e-03  3.296703e-02          0.1   1
## 1647          5.608877e-02  1.400491e-01          0.3   1
## 1648          5.557827e-02  3.461538e-01          0.2   0
## 1649          4.160859e-02 -2.573529e-02          0.0   1
## 1650         -2.496148e-02 -3.517316e-01         -0.4   1
## 1651          3.230120e-02 -9.433962e-03         -0.1   1
## 1652         -6.743365e-03 -1.416208e-01         -0.1   0
## 1653         -7.801745e-02 -4.395604e-03         -0.1   0
## 1654          4.921336e-02  5.012531e-02         -0.1   1
## 1655         -4.546434e-03 -3.809524e-03         -0.3   0
## 1656          2.449375e-02  2.869565e-01          0.3   1
## 1657         -1.022909e-02 -6.615385e-02          0.1   1
## 1658         -3.720497e-02 -2.092760e-01         -0.1   1
## 1659         -6.612878e-02 -1.111111e-01         -0.4   0
## 1660         -1.064706e-01 -2.412281e-01         -0.3   1
## 1661         -4.524240e-03 -4.574468e-02          0.0   1
## 1662         -1.035973e-02 -1.000000e-01         -0.2   0
## 1663          1.678997e-02  1.542730e-01          0.2   0
## 1664         -1.101341e-01 -2.875000e-01         -0.3   0
## 1665          1.802296e-02 -5.366357e-02          0.2   1
## 1666         -1.887938e-02  2.232143e-02          0.0   0
## 1667         -6.135541e-02 -2.170088e-01         -0.3   1
## 1668         -2.018893e-02 -1.464646e-01         -0.2   0
## 1669         -7.111192e-02 -1.526611e-01         -0.3   0
## 1670         -5.185621e-02  4.552846e-02          0.0   0
## 1671          8.077899e-03 -9.090909e-03          0.1   1
## 1672         -8.178786e-02 -1.414530e-01         -0.3   0
```

```
## 1673    -7.253134e-02 -4.166667e-02      -0.3   0
## 1674     1.119273e-02  1.886792e-02       0.0   1
## 1675    -3.938333e-02 -3.007407e-01      -0.3   0
## 1676     3.021904e-02  4.166667e-01       0.2   1
## 1677    -4.305211e-02 -2.113238e-01      -0.2   0
## 1678     1.644607e-01  2.666667e-01       0.0   1
## 1679     8.752835e-02  1.978610e-01       0.0   0
## 1680    -2.984601e-02  0.000000e+00       0.2   0
## 1681    -4.710877e-02 -2.204395e-01      -0.1   0
## 1682     3.661776e-02  1.958384e-02      -0.1   0
## 1683    -2.745027e-02 -2.792208e-01      -0.5   1
## 1684    -4.834038e-02 -1.843318e-01       0.0   1
## 1685     2.486340e-02 -1.206897e-01      -0.2   0
## 1686    -3.570073e-02 -5.555556e-02      -0.1   0
## 1687     6.724359e-02  2.540107e-01       0.2   1
## 1688    -5.551083e-02 -3.787879e-02      -0.2   0
## 1689    -2.041626e-02  1.014799e-01       0.3   0
## 1690     3.879956e-02  2.187500e-01      -0.1   1
## 1691    -1.835383e-02  9.126984e-02       0.0   1
## 1692    -8.074396e-02 -1.674718e-01      -0.4   0
## 1693    -2.124565e-02  5.538462e-02       0.0   0
## 1694     6.392345e-02  5.000000e-02      -0.1   0
## 1695    -4.046217e-02  8.237986e-02       0.2   1
## 1696     1.560423e-02 -7.500000e-02       0.2   1
## 1697    -5.758822e-02 -1.315789e-01      -0.5   1
## 1698    -5.981758e-02 -9.106029e-02      -0.1   0
## 1699    -5.259989e-02 -1.015965e-02       0.0   0
## 1700    -2.945520e-02 -7.424242e-02      -0.1   0
## 1701    -5.993447e-03 -3.594771e-02      -0.3   0
## 1702     3.007244e-02  1.714286e-01       0.2   1
## 1703    -1.163341e-02  6.783217e-02       0.5   0
## 1704     2.976884e-02  1.787365e-01       0.1   1
## 1705    -2.459842e-02 -1.381605e-01      -0.2   1
## 1706    -2.386346e-02  1.264190e-01       0.5   1
## 1707    -2.031439e-02 -1.319621e-01      -0.4   0
## 1708    -7.793122e-02  5.852535e-02       0.1   1
## 1709     5.291409e-03 -1.841144e-01      -0.5   0
## 1710    -5.552607e-02 -1.499582e-01       0.0   0
## 1711     5.076721e-02  4.545455e-02       0.4   0
## 1712    -9.691701e-03 -9.781303e-02      -0.3   0
## 1713     6.208590e-03 -1.035941e-01      -0.1   0
## 1714    -5.608443e-02 -1.873016e-01      -0.1   1
## 1715    -9.854627e-03  2.054662e-02       0.2   0
## 1716    -7.920669e-03  1.060606e-01       0.0   1
## 1717     4.907064e-02  1.533333e-01       0.1   1
## 1718     2.595171e-03 -1.106178e-01      -0.1   0
## 1719     5.197201e-02  2.517483e-01       0.3   1
## 1720    -1.085569e-02 -2.812500e-02      -0.1   1
## 1721    -5.990929e-02 -2.682353e-01      -0.3   0
## 1722     5.598045e-02  8.658009e-02       0.0   1
## 1723    -1.985643e-02 -1.003135e-02       0.0   0
## 1724    -1.477816e-03 -9.523810e-02      -0.1   1
## 1725     1.857827e-02 -9.547619e-02      -0.3   0
## 1726    -4.913822e-02 -1.005177e-01      -0.1   0
## 1727     3.462026e-02  4.857525e-02       0.2   1
## 1728     1.800291e-03  1.760563e-01       0.3   1
## 1729    -4.613044e-02 -8.116883e-02      -0.3   0
## 1730     1.259314e-02  5.246423e-02      -0.1   0
```

```
## 1731          1.201187e-02  3.431373e-02          -0.1   0
## 1732          1.806444e-02  1.184780e-01           0.0   1
## 1733          5.229194e-02 -4.285714e-02           0.1   1
## 1734         -1.533381e-02  1.842105e-02           0.1   0
## 1735         -3.650436e-02 -1.500000e-01          -0.1   0
## 1736         -8.747417e-03 -6.517094e-02          -0.2   0
## 1737          6.629771e-03  7.734205e-02           0.1   1
## 1738          1.803199e-02  6.203209e-02           0.1   1
## 1739          6.065287e-02 -5.993151e-02           0.0   1
## 1740         -8.020510e-02 -1.638889e-01          -0.1   0
## 1741         -8.842147e-02 -1.973039e-01          -0.1   0
## 1742          3.434814e-03  7.922705e-02          -0.1   1
## 1743          5.045018e-02  1.223776e-02           0.2   1
## 1744          5.316984e-02  1.571429e-01           0.4   1
## 1745         -1.746800e-02  3.306343e-02          -0.2   1
## 1746          1.581362e-02  2.153846e-01           0.1   1
## 1747         -1.005694e-02 -2.124557e-01           0.0   0
## 1748         -3.617925e-02 -1.307634e-01          -0.4   1
## 1749         -4.224270e-02 -1.571295e-01          -0.4   0
## 1750         -1.317485e-01 -2.604167e-01          -0.1   1
## 1751          2.746387e-02  2.336957e-01           0.5   1
## 1752          7.850235e-02  2.023810e-01           0.5   1
## 1753          2.558455e-02  3.488372e-02           0.0   1
## 1754          5.794092e-02  5.934066e-02           0.0   0
## 1755          1.272911e-02  9.384164e-02           0.2   1
## 1756         -5.632299e-03  2.930550e-02           0.0   0
## 1757         -3.075995e-02 -1.108669e-01           0.1   0
## 1758          3.084172e-02 -1.086957e-01           0.0   1
## 1759         -4.077626e-02 -9.992401e-02          -0.3   1
## 1760          4.367581e-02  3.438914e-01           0.3   1
## 1761         -1.435262e-02  8.668243e-03          -0.1   0
## 1762         -2.829092e-02  1.262626e-02           0.0   0
## 1763         -6.839361e-02 -3.781250e-01          -0.2   0
## 1764         -3.400439e-02 -2.863636e-01          -0.2   1
## 1765         -5.090592e-02 -3.476190e-01          -0.3   0
## 1766         -2.851732e-03  3.849057e-01           0.2   1
## 1767         -2.994838e-02 -4.224806e-01          -0.6   0
## 1768         -6.814374e-03 -9.557110e-02          -0.2   1
## 1769          6.602613e-02  1.160377e-01           0.3   1
## 1770          4.527925e-02  3.580563e-02           0.0   1
## 1771         -2.094557e-02 -7.855974e-02          -0.1   0
## 1772          2.451784e-02  1.883289e-01           0.3   1
## 1773          1.322077e-02 -4.062500e-02          -0.1   0
## 1774         -7.993914e-02 -3.460411e-01          -0.6   0
## 1775         -1.822330e-02 -1.827210e-01          -0.2   1
## 1776          6.066223e-02 -2.861685e-02           0.1   1
## 1777          1.441379e-02  2.777778e-01           0.6   1
## 1778         -4.014868e-02 -1.754386e-01          -0.2   0
## 1779         -7.751553e-02 -2.478925e-01          -0.2   0
## 1780         -4.696446e-04  1.041667e-01          -0.1   1
## 1781          8.890771e-03  8.169935e-02          -0.3   1
## 1782          3.424138e-02  1.428571e-01           0.3   1
## 1783          9.734102e-03  5.000000e-02          -0.2   0
## 1784          1.055439e-01  5.023923e-01           0.6   1
## 1785         -1.053651e-02 -2.500000e-02          -0.2   1
## 1786         -2.206153e-03 -1.513002e-01          -0.1   0
## 1787         -1.621245e-02 -1.845466e-01          -0.2   0
## 1788         -1.918427e-02 -1.093750e-01           0.2   0
```

```
## 1789          -7.261709e-02 -2.096154e-01          0.0   0
## 1790           4.869010e-04 -2.082278e-01         -0.1   1
## 1791          -5.343954e-02 -2.748538e-01         -0.3   0
## 1792          -1.315919e-03  2.175926e-01          0.3   1
## 1793           1.904300e-02 -2.652520e-03          0.1   0
## 1794          -2.040711e-02 -2.425876e-01         -0.5   0
## 1795           3.842995e-02  4.042436e-02          0.1   0
## 1796          -6.761428e-02 -1.300813e-01         -0.2   0
## 1797           3.930798e-02  2.851732e-01          0.3   1
## 1798           9.151624e-02  1.486486e-01          0.3   1
## 1799           1.118058e-02 -1.816092e-01          0.1   1
## 1800          -1.325262e-02  4.419192e-02         -0.1   0
## 1801           4.790738e-02  2.591463e-01          0.3   1
## 1802           1.919535e-02  2.840909e-02         -0.3   0
## 1803          -2.467780e-02 -1.065107e-01         -0.2   0
## 1804          -3.112022e-03 -1.087533e-01         -0.4   0
## 1805           4.789486e-02  1.187500e-01          0.4   1
## 1806          -8.526781e-02 -2.842105e-01         -0.4   0
## 1807           1.965969e-02  1.156780e-01          0.0   1
## 1808           7.574606e-02  1.262745e-01          0.1   1
## 1809          -5.133000e-02 -1.538462e-01         -0.1   1
## 1810          -3.106000e-02  2.881356e-02         -0.1   0
## 1811           4.939530e-02  1.032548e-01          0.1   1
## 1812           1.947193e-02  6.203008e-02         -0.1   1
## 1813          -1.029086e-01 -3.933333e-01         -0.5   0
## 1814           6.800216e-02  3.083333e-01          0.3   1
## 1815          -4.134331e-02  3.787879e-03         -0.1   1
## 1816          -3.456285e-02 -6.250000e-02         -0.2   1
## 1817          -6.221004e-03 -1.934524e-01          0.1   0
## 1818           6.352387e-02  6.632361e-02         -0.1   0
## 1819          -3.055693e-02 -1.425837e-01          0.0   0
## 1820           8.293654e-02  2.338603e-01          0.4   1
## 1821           2.956437e-02  2.727273e-01          0.1   1
## 1822           2.928392e-04  1.151386e-01         -0.1   0
## 1823           2.386266e-03 -5.484694e-02         -0.1   0
## 1824          -6.617056e-02 -1.503268e-01          0.1   1
## 1825           7.122942e-02  6.666667e-02         -0.2   0
## 1826          -1.926289e-02 -4.700855e-03          0.2   1
## 1827           8.905423e-03  2.070896e-01          0.1   1
## 1828          -8.606096e-02 -1.666667e-01         -0.3   0
## 1829           1.609701e-02  1.083591e-02         -0.2   1
## 1830           2.181907e-02  9.090909e-02          0.2   1
## 1831          -7.427478e-03  1.254902e-01         -0.1   1
## 1832           4.253524e-03  3.216880e-02         -0.1   1
## 1833           2.594723e-03 -7.142857e-02         -0.1   1
## 1834           9.484555e-04 -4.861111e-02         -0.2   0
## 1835           9.596880e-03  1.683502e-02          0.0   1
## 1836          -1.956406e-02 -2.199639e-01         -0.6   0
## 1837           6.795706e-02  2.663734e-01          0.1   0
## 1838          -7.562758e-02 -2.312113e-01         -0.4   0
## 1839          -2.265522e-03  2.013105e-01          0.5   0
## 1840           2.315983e-02 -1.216216e-01         -0.4   0
## 1841           2.798225e-02  1.818182e-01          0.4   0
## 1842           2.194125e-02  1.660079e-01          0.2   1
## 1843          -2.479664e-02 -7.207207e-02         -0.1   0
## 1844          -8.032116e-03 -8.327912e-02         -0.2   0
## 1845          -3.791541e-02  5.303030e-02          0.2   1
## 1846          -4.002672e-02 -1.337719e-01         -0.1   0
```

```
## 1847        -2.900142e-02 -9.743590e-02         -0.1   1
## 1848        -8.148929e-02 -3.566667e-01         -0.1   0
## 1849         1.294284e-02 -2.230303e-01         -0.2   0
## 1850         5.222898e-02  1.680162e-01          0.4   1
## 1851         1.068745e-01  3.659064e-01          0.5   1
## 1852        -2.845608e-02 -1.475116e-01         -0.2   0
## 1853         6.481130e-02  7.407407e-02          0.1   1
## 1854        -3.687609e-02 -8.620690e-02          0.0   1
## 1855        -9.880544e-02 -3.364179e-01         -0.3   0
## 1856        -1.055648e-01 -2.786070e-01          0.1   1
## 1857         5.898638e-02  1.487179e-01          0.4   1
## 1858        -5.213934e-02 -5.791506e-02          0.1   1
## 1859        -3.852679e-03 -8.823529e-02          0.2   1
## 1860        -7.431506e-02 -1.072650e-01         -0.3   0
## 1861        -3.620509e-02 -1.086957e-01         -0.2   1
## 1862        -1.163920e-01 -3.534137e-01         -0.6   0
## 1863        -1.942074e-02 -2.565789e-01         -0.3   0
## 1864        -5.764527e-02 -8.354430e-02         -0.3   0
## 1865         3.229668e-02  1.925025e-02         -0.1   0
## 1866         2.573794e-02  1.052632e-01          0.4   0
## 1867        -2.306375e-02 -1.322136e-01         -0.3   0
## 1868        -9.395529e-04  3.257576e-01          0.3   1
## 1869         8.955345e-02  2.813115e-01          0.2   1
## 1870         7.183222e-03 -2.722323e-01         -0.5   0
## 1871         4.594271e-02  1.547935e-01          0.3   1
## 1872        -4.449161e-03  1.023569e-01          0.2   0
## 1873         8.178531e-02  3.287347e-01          0.3   1
## 1874         1.399380e-02  1.796046e-01          0.1   0
## 1875         1.817590e-02  8.612440e-02          0.2   1
## 1876        -1.602610e-02 -4.556752e-02          0.1   0
## 1877         3.296716e-02  1.817043e-01          0.3   1
## 1878        -2.739309e-02  1.282609e-01          0.1   1
## 1879        -7.021697e-02 -1.776961e-01         -0.3   0
## 1880         3.580883e-02  2.070896e-01          0.2   1
## 1881         8.326436e-02  2.899090e-01          0.4   1
## 1882         1.124570e-02  2.103896e-01          0.3   1
## 1883         1.692324e-02  2.124825e-01          0.1   1
## 1884         5.944678e-02  5.745342e-02         -0.1   1
## 1885        -4.435000e-02 -2.001916e-01         -0.2   0
## 1886        -4.192282e-02 -1.058824e-01         -0.3   0
## 1887         2.221676e-02  6.349206e-02         -0.1   0
## 1888         4.129265e-02 -1.035138e-01         -0.2   0
## 1889         8.065523e-04 -6.576644e-02          0.2   0
## 1890        -1.150855e-03 -1.379585e-01         -0.2   0
## 1891         5.238834e-02  4.344074e-02         -0.1   0
## 1892        -2.879856e-02 -1.100000e-01          0.1   1
## 1893        -9.636569e-03 -7.692308e-02         -0.2   1
## 1894         8.460057e-02  1.534954e-01          0.3   0
## 1895        -9.756562e-03 -1.027221e-02          0.0   1
## 1896        -1.420957e-02 -5.446623e-02         -0.3   1
## 1897         4.692786e-02  8.241758e-02          0.1   1
## 1898         2.017830e-02  4.545455e-03         -0.1   1
## 1899         1.470173e-02  1.718427e-01          0.3   1
## 1900         5.500957e-02  1.059113e-01          0.2   1
## 1901         1.849231e-02  1.841110e-01          0.2   0
## 1902         3.444000e-02  2.564103e-01          0.4   1
## 1903        -9.534388e-03  1.833333e-02          0.1   0
## 1904        -4.360190e-02  2.485876e-02          0.0   1
```

```
## 1905         1.078529e-02  1.326531e-01          0.5   1
## 1906        -2.233739e-02 -2.394095e-01         -0.4   1
## 1907         2.217693e-02  1.396104e-01          0.3   0
## 1908        -1.809511e-02 -1.326531e-01         -0.2   1
## 1909        -9.454985e-04  3.030303e-02         -0.1   0
## 1910         1.738887e-02 -3.259005e-02          0.0   0
## 1911        -8.002622e-02 -2.167367e-01          0.0   0
## 1912        -9.033437e-02 -4.151515e-01         -0.7   0
## 1913         8.370278e-03  1.906780e-01         -0.1   0
## 1914         1.452779e-02 -1.818182e-01         -0.2   0
## 1915         2.634401e-02 -2.355072e-02         -0.3   1
## 1916         3.714411e-02  2.122680e-01          0.1   0
## 1917        -3.152499e-02 -1.581197e-01         -0.1   1
## 1918         3.446510e-02  1.601090e-01          0.2   0
## 1919         6.087084e-02  3.175621e-01          0.4   1
## 1920        -1.374398e-03 -9.637681e-02          0.0   0
## 1921         2.396202e-02  2.054945e-01          0.3   1
## 1922        -5.082594e-02  1.945289e-01          0.4   0
## 1923        -5.418434e-02 -3.280702e-01         -0.3   0
## 1924        -5.737587e-04  7.539683e-02          0.3   1
## 1925        -3.947669e-05 -1.265152e-01         -0.4   0
## 1926        -9.288866e-03 -1.023392e-01         -0.1   0
## 1927        -1.141061e-02 -6.056830e-02          0.3   0
## 1928        -4.807277e-02 -1.611111e-01         -0.4   0
## 1929         6.163179e-02  3.781513e-01          0.4   0
## 1930        -8.870717e-02 -2.920413e-01         -0.3   0
## 1931         1.026959e-01  1.674959e-01         -0.2   1
## 1932         7.114734e-02  1.791566e-01          0.3   1
## 1933         2.694497e-02  1.065217e-01          0.1   1
## 1934        -4.283378e-02 -2.272727e-01         -0.2   0
## 1935         3.504934e-02  4.509685e-02         -0.2   1
## 1936         4.759182e-02  1.953188e-01          0.3   1
## 1937        -3.280051e-02 -3.555556e-01         -0.7   0
## 1938         1.093552e-01  3.029268e-01          0.2   1
## 1939         3.282807e-02 -1.020982e-01         -0.3   0
## 1940        -5.737369e-02 -2.412412e-01         -0.3   0
## 1941        -1.826231e-02 -1.136537e-01         -0.2   0
## 1942        -3.018345e-02  2.309783e-02         -0.2   0
## 1943         1.340746e-02  2.730465e-01          0.1   0
## 1944         1.092046e-02 -4.938957e-02         -0.2   0
## 1945        -8.282410e-02 -3.846522e-01         -0.4   0
## 1946        -1.213094e-01 -4.630021e-01         -0.3   0
## 1947        -2.132282e-02 -6.203008e-02          0.1   1
## 1948         3.066905e-02  1.074675e-01          0.4   0
## 1949        -6.448293e-02  1.572327e-03          0.2   0
## 1950        -2.626474e-02 -1.635970e-01         -0.4   1
## 1951         1.568045e-02  1.731250e-01          0.2   1
## 1952         2.403937e-02 -5.364201e-02         -0.2   1
## 1953        -3.839733e-02 -1.573770e-01         -0.4   0
## 1954        -3.484937e-02 -1.644042e-01         -0.5   0
## 1955         1.848679e-02 -1.918585e-02          0.0   1
## 1956        -2.115296e-02  2.834008e-02          0.1   1
## 1957        -2.460679e-03  2.191358e-01          0.5   1
## 1958        -7.291047e-02 -1.010327e-01          0.0   0
## 1959         4.273981e-03 -6.095238e-02          0.0   0
## 1960        -9.611724e-02 -3.750000e-01         -0.4   1
## 1961         8.972256e-02  2.681159e-01          0.1   1
## 1962        -8.620973e-02 -3.908046e-01         -0.1   0
```

```
## 1963         -8.175612e-02 -3.045299e-03          0.2  0
## 1964          2.419100e-03 -1.196581e-01         -0.3  0
## 1965         -2.936305e-02 -4.976959e-02          0.3  1
## 1966         -6.425839e-02 -1.448101e-01         -0.2  1
## 1967         -1.358815e-02 -2.099413e-01         -0.3  0
## 1968          3.894715e-02 -2.783367e-02          0.1  0
## 1969         -9.339278e-02 -4.667438e-01         -0.3  0
## 1970         -1.160846e-02  2.697368e-01          0.3  1
## 1971          6.532933e-03 -1.624921e-01         -0.3  0
## 1972          4.856729e-02  1.147343e-01          0.0  1
## 1973          4.507814e-02  1.356638e-01         -0.1  1
## 1974         -4.847785e-02 -2.918587e-02          0.2  1
## 1975          4.543763e-02  6.601307e-02         -0.1  0
## 1976          2.076937e-02 -6.666667e-03         -0.4  0
## 1977          2.996561e-02 -2.631579e-02         -0.2  1
## 1978          2.987223e-02  6.424457e-02          0.0  1
## 1979          5.631219e-03 -6.261860e-02          0.0  0
## 1980         -7.496305e-02 -2.834008e-02          0.0  1
## 1981          6.115512e-02  3.223443e-01          0.4  0
## 1982         -7.839143e-02 -1.462433e-01          0.1  0
## 1983          1.455018e-03  4.962406e-02          0.2  0
## 1984          5.491571e-02  9.209302e-02          0.0  1
## 1985         -2.412523e-02 -1.000000e-01         -0.2  0
## 1986         -2.285344e-02 -1.404762e-01         -0.2  0
## 1987         -1.129597e-02 -1.111111e-02          0.2  0
## 1988          3.789218e-02 -1.127321e-02          0.2  0
## 1989          4.510898e-02  8.363636e-02          0.0  0
## 1990          4.869473e-03  1.720430e-02         -0.2  0
## 1991         -5.924550e-02 -1.259370e-01          0.1  0
## 1992          5.413738e-02  1.960784e-02          0.1  0
## 1993          3.141499e-04  1.719149e-01          0.3  1
## 1994         -9.048408e-02 -4.464286e-01         -0.3  1
## 1995         -6.487410e-02 -2.857143e-01         -0.4  0
## 1996         -2.637678e-02 -1.723602e-01         -0.5  0
## 1997          5.457943e-03  6.250000e-02          0.3  0
## 1998         -4.240761e-02  8.620690e-02         -0.3  0
## 1999          1.729221e-02 -1.066667e-01          0.0  0
## 2000          2.235039e-02 -1.590909e-01         -0.2  1
## 2001          2.671499e-02 -2.851033e-03         -0.2  0
## 2002          3.564371e-02  1.113636e-01         -0.1  1
## 2003         -4.576750e-02 -1.026119e-01          0.1  0
## 2004         -1.004555e-01 -4.065934e-01         -0.2  0
## 2005         -4.778617e-02  4.894614e-02          0.2  0
## 2006         -1.972310e-02 -8.684864e-02         -0.2  0
## 2007          4.559921e-02  2.952381e-01          0.3  1
## 2008          1.159131e-01  3.187266e-01          0.5  1
## 2009          9.134659e-03 -1.436782e-02          0.1  1
## 2010          7.829646e-02  1.737705e-01          0.1  0
## 2011          1.431719e-01  4.680672e-01          0.5  1
## 2012          6.709413e-02  3.070600e-01          0.4  1
## 2013         -1.322715e-02  7.513661e-02          0.0  1
## 2014         -5.268414e-02 -2.060478e-01         -0.2  1
## 2015          3.128488e-02  2.901070e-01          0.4  1
## 2016         -1.929233e-02 -1.372506e-01         -0.1  1
## 2017         -1.708324e-03 -1.037532e-01          0.0  1
## 2018          2.388368e-02  1.956957e-01          0.2  1
## 2019         -1.320642e-01 -3.221698e-01         -0.4  1
## 2020          7.084319e-02  4.502024e-01          0.3  1
```

```
## 2021       -8.729157e-02 -1.961290e-01       -0.1   1
## 2022       -2.781480e-02 -2.630041e-02        0.0   0
## 2023        5.601116e-02  2.507903e-01        0.4   0
## 2024        5.977300e-02  1.660256e-01        0.1   1
## 2025       -9.217604e-02 -4.598930e-01       -0.3   0
## 2026        3.141992e-03 -1.213982e-01       -0.4   0
## 2027       -3.709370e-02 -1.401799e-01       -0.1   0
## 2028        6.796178e-02  1.597161e-01        0.0   1
## 2029        5.886373e-02 -4.861945e-02        0.3   1
## 2030       -6.637029e-02 -1.923077e-01       -0.1   1
## 2031       -2.154099e-02 -2.933824e-01       -0.4   0
## 2032       -6.565721e-02 -1.056338e-01        0.1   0
## 2033       -1.294013e-02  8.965991e-02        0.1   0
## 2034       -1.683501e-02 -3.286594e-01       -0.6   0
## 2035        4.119157e-02  3.534362e-01        0.3   1
## 2036       -2.333695e-02 -1.266766e-01        0.0   1
## 2037        1.696777e-02  1.126177e-01        0.2   0
## 2038       -1.159059e-01 -2.485465e-01       -0.3   0
## 2039        9.190459e-02  2.414150e-01        0.3   1
## 2040        6.580457e-02  2.757540e-01        0.2   0
## 2041       -3.460874e-02 -3.052995e-02       -0.1   0
## 2042       -4.828890e-02 -1.188552e-01        0.0   0
## 2043       -4.329057e-02 -2.604167e-01        0.0   0
## 2044       -6.066107e-02 -8.762392e-02       -0.1   1
## 2045        1.509249e-02  7.109557e-02        0.0   1
## 2046        2.884539e-02  3.010753e-02        0.0   0
## 2047       -1.007060e-01 -3.851852e-02       -0.2   0
## 2048       -2.703256e-02 -1.851852e-02        0.0   1
## 2049       -2.254112e-02 -3.160920e-01       -0.4   0
## 2050        6.031815e-02  3.187289e-01        0.2   1
## 2051        4.874788e-02  1.063218e-01        0.1   1
## 2052       -1.228276e-01 -4.122807e-01       -0.3   0
## 2053        1.343910e-02 -3.373016e-02        0.2   0
## 2054        5.625335e-02  2.814051e-01        0.3   1
## 2055        2.019492e-02 -2.551757e-02       -0.2   1
## 2056       -6.658874e-03 -9.030655e-02        0.2   1
## 2057        1.696002e-02  2.206208e-01        0.3   1
## 2058       -9.607980e-03 -1.791586e-01        0.0   0
## 2059        6.072940e-02  2.385603e-01        0.1   1
## 2060        1.760420e-02 -4.471789e-02       -0.1   1
## 2061       -2.874197e-02  2.817632e-01        0.3   1
## 2062        5.004181e-03 -3.694952e-02       -0.1   0
## 2063       -2.087944e-02  9.758454e-02        0.3   1
## 2064       -4.454519e-02 -5.082418e-02        0.1   1
## 2065        7.594899e-02  2.181122e-01        0.1   0
## 2066        4.000798e-02  7.386364e-02       -0.1   0
## 2067       -2.258553e-02 -8.444444e-02        0.2   0
## 2068       -2.247160e-02  1.515152e-01        0.2   1
## 2069        1.631525e-02 -7.142857e-02       -0.1   0
## 2070        5.148620e-02  7.660739e-02        0.1   1
## 2071        3.204567e-02  9.289617e-02       -0.2   1
## 2072        8.492426e-03  4.075235e-02        0.0   1
## 2073        5.280795e-03 -1.949405e-01       -0.2   0
## 2074        5.693492e-02  1.112319e-01        0.3   1
## 2075       -4.775778e-02 -2.166667e-01       -0.2   1
## 2076       -6.506452e-03 -7.212476e-02        0.1   1
## 2077       -3.232395e-02  6.072106e-02       -0.1   1
## 2078        4.040605e-04 -5.442177e-02       -0.1   0
```

```
## 2079          -2.445082e-02 -9.533469e-02          -0.2   0
## 2080          -2.472754e-02 -2.500000e-02           0.0   1
## 2081          -8.356320e-02 -2.224013e-01          -0.2   0
## 2082           7.129672e-02  2.976190e-01           0.4   1
## 2083          -2.201310e-02 -5.820106e-02          -0.1   1
## 2084          -1.913706e-02  1.330532e-02           0.2   1
## 2085          -5.662412e-02 -1.292356e-01           0.0   1
## 2086          -1.165996e-02 -5.072464e-02           0.2   0
## 2087          -3.326780e-02  4.727475e-02           0.4   1
## 2088          -2.919480e-02 -3.571429e-02           0.0   1
## 2089          -6.442797e-02 -2.343750e-01          -0.1   0
## 2090          -1.316086e-01 -2.639373e-01          -0.1   0
## 2091          -8.226565e-02 -2.112069e-01          -0.2   0
## 2092           8.500705e-02  2.111111e-01           0.0   1
## 2093          -1.006778e-02 -2.429379e-02           0.3   0
## 2094          -8.758377e-02 -2.027397e-01          -0.1   1
## 2095          -7.275011e-02 -1.992629e-01          -0.2   0
## 2096          -6.928816e-02 -2.355512e-01          -0.1   1
## 2097           2.395079e-02  1.785714e-01           0.2   1
## 2098           2.002552e-02  8.345865e-02          -0.2   0
## 2099          -1.722608e-02 -1.009126e-01          -0.3   1
## 2100          -2.092630e-02  2.120026e-02          -0.1   0
## 2101          -3.834190e-02  2.834008e-02           0.2   1
## 2102          -3.948225e-02 -7.053763e-02          -0.1   1
## 2103           1.092147e-02  1.724138e-02           0.0   1
## 2104           1.937930e-02 -2.459016e-02           0.0   0
## 2105           1.309358e-01  1.602067e-01           0.0   0
## 2106          -3.109964e-02  2.378731e-02           0.1   1
## 2107          -2.420727e-02 -5.184332e-02           0.0   1
## 2108          -1.381721e-02  5.225806e-02           0.0   0
## 2109           2.675949e-02  1.546505e-01           0.4   1
## 2110          -5.210211e-02 -8.064516e-02          -0.1   0
## 2111           3.597738e-02  1.328321e-01           0.3   1
## 2112          -3.251383e-02 -1.390394e-01          -0.1   1
## 2113          -1.995014e-03  6.913580e-02           0.0   0
## 2114           4.428975e-03 -6.228070e-02           0.0   0
## 2115          -1.377875e-02 -1.388889e-02          -0.1   0
## 2116          -1.031296e-03 -9.765808e-02           0.0   1
## 2117           6.831917e-02  1.363636e-01           0.2   0
## 2118          -1.306337e-02 -1.456494e-01          -0.5   1
## 2119          -1.887514e-03 -2.857143e-02           0.1   1
## 2120           1.281888e-01  1.533019e-01           0.2   0
## 2121           1.367912e-02  2.039848e-02          -0.2   1
## 2122           3.593536e-02  1.038462e-01           0.2   1
## 2123           1.245793e-04  3.893849e-02           0.3   0
## 2124          -3.820043e-03 -1.969608e-01           0.0   1
## 2125          -8.051305e-02 -1.736243e-01          -0.3   1
## 2126           5.937280e-02  2.085914e-01           0.3   1
## 2127          -1.179453e-01 -3.030303e-01          -0.3   0
## 2128           5.931000e-02  1.896552e-01           0.1   0
## 2129           3.982609e-02  1.779279e-01           0.3   1
## 2130          -7.350518e-02 -3.897889e-01          -0.5   0
## 2131          -3.838574e-02 -8.194444e-02          -0.3   0
## 2132           1.050571e-02  9.770115e-02           0.1   0
## 2133          -1.133721e-01 -2.603933e-01          -0.2   0
## 2134          -1.851708e-02 -1.925466e-01          -0.1   0
## 2135          -7.282719e-03 -5.748350e-03           0.0   0
## 2136           8.529766e-02  1.982922e-01           0.2   0
```

```
## 2137          3.037127e-02  3.430020e-01         0.7    1
## 2138         -3.630233e-03 -6.744462e-02         0.3    1
## 2139         -8.220330e-02 -2.092732e-01        -0.1    0
## 2140          4.027458e-02  9.523810e-02         0.3    1
## 2141          2.504459e-04  2.419508e-01         0.3    1
## 2142         -1.092252e-02 -2.385542e-01        -0.1    0
## 2143          1.006030e-01  3.514493e-01         0.4    1
## 2144         -9.936833e-02 -3.076923e-01        -0.2    0
## 2145          4.961974e-02  2.282828e-01         0.3    1
## 2146         -4.223156e-02 -2.253716e-01        -0.1    0
## 2147          3.985816e-02  1.126177e-01         0.2    0
## 2148          1.922211e-02  1.215357e-01        -0.1    1
## 2149          8.209019e-02  3.058824e-01         0.4    0
## 2150          4.285615e-03 -1.538462e-02         0.2    0
## 2151         -3.142736e-02  8.142857e-02         0.1    1
## 2152          1.764699e-02  4.531490e-02         0.2    0
## 2153         -4.394694e-02 -1.844304e-01        -0.1    0
## 2154          5.014429e-02  2.853535e-01         0.3    1
## 2155         -8.991873e-02 -3.055556e-01        -0.1    0
## 2156          2.339281e-02  1.577251e-01         0.1    1
## 2157         -6.527564e-02 -1.846243e-01        -0.3    1
## 2158          4.853678e-02  1.439726e-01         0.2    1
## 2159         -1.843797e-02 -1.135431e-01        -0.2    0
## 2160         -4.140203e-02 -1.042968e-01        -0.1    0
## 2161         -6.415902e-03 -1.409018e-01        -0.3    1
## 2162         -5.040518e-02 -1.493213e-01         0.0    0
## 2163         -3.655387e-03  7.777287e-02         0.1    0
## 2164          4.752746e-02  9.247967e-02         0.1    1
## 2165         -8.263193e-03  1.778656e-02         0.1    1
## 2166          3.197761e-02 -4.230769e-02         0.1    0
## 2167          5.247757e-02  1.445341e-01         0.2    1
## 2168         -1.367323e-02  7.651663e-02         0.0    1
## 2169          5.621453e-02  2.769231e-02         0.0    1
## 2170         -5.557639e-02 -1.774194e-01        -0.2    0
## 2171         -2.196698e-02  1.915584e-01         0.3    1
## 2172         -1.108765e-02 -1.923077e-01        -0.1    0
## 2173          8.005767e-02  4.394225e-02         0.0    1
## 2174          2.065512e-02  5.215420e-02         0.2    1
## 2175          4.746352e-02  7.986111e-02        -0.1    0
## 2176         -2.335147e-03  3.043478e-02        -0.4    1
## 2177          4.766362e-03 -2.714286e-01        -0.2    0
## 2178         -2.248297e-02 -1.939309e-01        -0.4    0
## 2179          8.830950e-02  5.089127e-01         0.7    1
## 2180         -2.040397e-02 -6.349206e-02         0.0    0
## 2181          7.800407e-02  2.037716e-01         0.2    1
## 2182          1.517465e-02  2.894022e-01         0.3    1
## 2183          4.009054e-02  1.615691e-01         0.2    0
## 2184         -9.942392e-02 -3.008130e-01        -0.2    0
## 2185          3.729598e-02 -3.890254e-02         0.2    1
## 2186          2.630755e-02  1.305361e-01         0.3    1
## 2187         -4.088556e-02 -1.699940e-01         0.0    0
## 2188         -4.399686e-02 -2.186421e-01        -0.2    0
## 2189         -4.419574e-02 -5.852273e-02        -0.1    1
## 2190          7.916484e-02  3.385628e-01         0.2    1
## 2191          6.109674e-02  1.220275e-01        -0.2    1
## 2192         -3.202631e-02 -3.430013e-01        -0.1    0
## 2193          6.702585e-02  3.493590e-01         0.6    1
## 2194          7.824736e-02  3.737864e-01         0.4    1
```

```
## 2195          -1.893173e-02  5.714286e-02              0.0   1
## 2196          -4.581464e-02 -7.135875e-02              0.0   1
## 2197           3.665089e-02 -7.023705e-03             -0.1   1
## 2198           1.257047e-02  6.022727e-02              0.0   1
## 2199          -1.876410e-02 -2.849817e-01             -0.2   0
## 2200           2.318415e-02  1.035654e-01              0.2   1
## 2201          -6.048348e-02 -1.707746e-01             -0.1   0
## 2202           1.749266e-02 -8.823529e-02              0.0   0
## 2203          -2.113765e-02 -1.124656e-01             -0.2   0
## 2204           6.235501e-03 -3.250000e-02             -0.3   1
## 2205           6.010260e-02  2.476190e-01              0.2   1
## 2206           4.221211e-03  7.563349e-02              0.1   1
## 2207          -4.010877e-02 -1.088400e-01             -0.1   0
## 2208           1.216521e-02  1.023392e-01              0.0   0
## 2209           5.678439e-02  1.613900e-01              0.3   1
## 2210          -9.548811e-03  2.727476e-02              0.1   1
## 2211           1.854171e-02  6.336681e-02              0.0   1
## 2212           1.235504e-02  7.509881e-02              0.1   0
## 2213          -5.507947e-04  1.602564e-02              0.2   1
## 2214           2.133440e-02  2.352941e-01              0.4   1
## 2215           7.475288e-03 -1.064426e-01              0.0   0
## 2216           8.624359e-02  3.597222e-01              0.3   1
## 2217          -1.677288e-02 -1.000000e-01             -0.2   0
## 2218           1.728381e-02  3.983549e-01              0.4   0
## 2219           2.174753e-02  1.494253e-01             -0.1   0
## 2220           1.012416e-02  7.042254e-03             -0.1   0
## 2221           1.387037e-02  2.449799e-01              0.0   0
## 2222           2.742678e-02  1.878811e-01              0.1   1
## 2223          -1.639133e-02  3.267045e-02             -0.1   1
## 2224          -5.097492e-02 -2.381292e-01             -0.1   0
## 2225           9.619557e-03 -1.768707e-01             -0.2   0
## 2226           6.548474e-03  2.542373e-02              0.1   1
## 2227           1.641361e-02  2.000000e-01              0.3   1
## 2228           3.027969e-02  6.172608e-02              0.1   0
## 2229           2.545011e-02  8.256410e-02              0.1   0
## 2230           1.349518e-02  5.757576e-02              0.0   1
## 2231           2.988656e-03  6.149733e-02              0.1   1
## 2232          -7.628359e-03  0.000000e+00             -0.2   1
## 2233          -6.675664e-03  3.267045e-02              0.4   0
## 2234           9.012822e-05 -4.166667e-02             -0.2   0
## 2235          -5.109807e-04  1.178571e-01              0.5   0
## 2236           1.131914e-01  2.081081e-01              0.0   0
## 2237           9.196039e-03  2.417582e-02              0.2   1
## 2238          -4.897347e-02 -1.541667e-01             -0.2   0
## 2239          -9.738043e-03 -8.589744e-02             -0.2   1
## 2240          -7.191874e-02 -7.142857e-02             -0.1   0
## 2241          -3.800367e-02 -2.417582e-02              0.1   0
## 2242           4.721058e-02 -4.749164e-02              0.2   1
## 2243          -5.963372e-02 -2.139423e-01             -0.3   0
## 2244          -3.257610e-02  4.285714e-02              0.2   1
## 2245          -5.826277e-02 -1.180556e-01              0.0   1
## 2246          -3.055375e-02 -2.694805e-02             -0.4   0
## 2247          -5.274911e-02 -1.125541e-01             -0.3   0
## 2248           6.565849e-02  3.165992e-01              0.5   1
## 2249           5.336298e-03 -2.064516e-02             -0.1   0
## 2250           5.763802e-02  2.882483e-01              0.4   1
## 2251          -1.432612e-02 -4.666667e-02              0.4   1
## 2252          -5.699104e-02 -1.808402e-01              0.1   1
```

```
## 2253        -7.453157e-02 -1.796009e-01            -0.4   0
## 2254         2.390982e-02  2.933333e-01             0.2   1
## 2255        -6.334978e-03  8.012422e-02            -0.3   0
## 2256         1.621820e-03 -1.447630e-01             0.0   0
## 2257         4.750877e-02  1.587302e-01             0.1   1
## 2258         5.972633e-02  1.065217e-01             0.0   0
## 2259        -3.954293e-02 -4.870385e-02             0.0   0
## 2260        -3.843503e-02 -1.231249e-01            -0.2   1
## 2261         8.324336e-02  2.164474e-01            -0.2   1
## 2262        -7.694934e-02 -3.664185e-01            -0.5   0
## 2263        -1.653350e-02 -1.470588e-02             0.1   1
## 2264         5.462049e-02  3.872529e-02            -0.1   1
## 2265         1.195885e-02  8.191851e-02            -0.2   0
## 2266         2.954522e-02 -5.015459e-02             0.1   1
## 2267        -4.999993e-02 -8.272059e-02             0.1   0
## 2268        -5.889986e-02 -1.023810e-01            -0.1   1
## 2269        -3.562099e-02  1.074926e-01            -0.3   1
## 2270         5.076680e-02  2.507937e-01             0.1   1
## 2271        -1.170037e-01 -1.325758e-01            -0.2   0
## 2272        -3.569928e-02 -3.937282e-02            -0.3   1
## 2273         6.281224e-04  2.818420e-01             0.2   1
## 2274         1.713583e-02  9.939759e-02             0.4   1
## 2275         3.823241e-02  1.428571e-01            -0.1   1
## 2276        -4.304709e-02 -1.454035e-01             0.1   0
## 2277         1.884493e-02  9.922251e-02             0.4   1
## 2278        -7.872806e-03 -5.361099e-02            -0.1   1
## 2279         4.977692e-02  2.844169e-01             0.4   0
## 2280         2.216171e-02  1.261261e-01             0.0   0
## 2281         1.031277e-02 -2.941176e-02             0.3   0
## 2282         3.435092e-02  2.650794e-01             0.2   0
## 2283         5.503519e-03 -3.751962e-02            -0.2   1
## 2284         6.764958e-02  1.969697e-01             0.3   0
## 2285         1.566366e-02  3.626374e-02             0.0   0
## 2286        -4.010549e-02 -1.275313e-01            -0.1   1
## 2287        -3.096471e-03  1.684492e-01             0.2   1
## 2288        -7.347379e-02  1.035354e-01             0.0   1
## 2289        -8.787340e-03  2.673797e-03            -0.1   0
## 2290         2.611129e-02  3.066378e-02            -0.3   1
## 2291         1.676451e-02 -1.084489e-02            -0.2   0
## 2292        -9.205135e-03 -9.946397e-02             0.0   1
## 2293         1.988140e-03  8.600556e-02             0.2   0
## 2294         1.687025e-02 -1.083333e-01            -0.2   1
## 2295        -3.476774e-02 -1.538596e-01            -0.2   1
## 2296        -1.205407e-03  2.237395e-01             0.7   0
## 2297        -1.020512e-01 -1.107896e-01            -0.1   0
## 2298        -6.447393e-02 -3.020341e-01            -0.7   0
## 2299         2.883656e-03  1.203008e-01             0.3   1
## 2300         2.979637e-02  2.823755e-01             0.3   0
## 2301        -4.786871e-02 -2.768627e-01             0.1   0
## 2302        -2.009535e-02 -1.166322e-01            -0.1   0
## 2303        -1.088288e-01 -3.279857e-01            -0.1   0
## 2304        -5.714024e-02 -2.422680e-01            -0.1   0
## 2305        -9.521466e-02 -1.974477e-01             0.0   0
## 2306        -2.884523e-02 -1.314660e-01            -0.3   1
## 2307         1.952995e-02  3.010033e-02             0.3   0
## 2308         1.737507e-02  1.253071e-01            -0.1   1
## 2309        -5.783547e-02 -3.031346e-01            -0.4   0
## 2310        -6.721444e-02 -1.052632e-01             0.0   1
```

```
## 2311          -2.811947e-02  5.422648e-02         0.2    1
## 2312           2.031743e-02 -2.982456e-01        -0.4    0
## 2313          -5.255583e-02 -1.826742e-01        -0.1    0
## 2314          -7.354832e-02 -3.096177e-01        -0.2    0
## 2315           1.485466e-02  8.818154e-02         0.1    1
## 2316           7.932379e-02  1.112532e-01         0.3    1
## 2317           2.998498e-02  1.503797e-01         0.0    0
## 2318           3.009111e-02  2.561737e-01         0.3    1
## 2319          -3.709294e-02 -2.820513e-01        -0.5    0
## 2320          -4.060918e-02 -3.171296e-01        -0.5    0
## 2321          -2.825406e-02 -7.944833e-02        -0.2    0
## 2322          -6.856052e-02 -1.131720e-01        -0.2    1
## 2323          -3.319923e-03 -6.928578e-02        -0.2    0
## 2324           5.880825e-03 -5.216252e-02        -0.2    0
## 2325           3.750469e-02  2.564878e-01         0.4    1
## 2326           3.825040e-02  4.343434e-02         0.0    0
## 2327          -5.663611e-02 -4.065041e-01        -0.3    1
## 2328           2.285189e-03 -1.437247e-02         0.2    1
## 2329          -8.638579e-03  5.371194e-02        -0.1    0
## 2330           5.714287e-02  2.060928e-01         0.1    1
## 2331          -5.076878e-02  5.751634e-02        -0.1    1
## 2332          -2.976749e-02 -7.729138e-02        -0.2    0
## 2333           7.092836e-02  1.196765e-01        -0.1    1
## 2334          -2.869686e-02 -5.647841e-02         0.0    0
## 2335           2.646891e-02  2.153846e-02         0.0    1
## 2336          -1.260124e-02  3.623188e-02         0.0    1
## 2337          -6.875669e-03  1.207729e-01         0.0    1
## 2338           2.733917e-02  2.010989e-01         0.4    1
## 2339          -8.282355e-02 -7.037557e-02        -0.2    1
## 2340          -9.051884e-02 -1.740080e-01        -0.2    1
## 2341          -2.222299e-03 -9.933236e-03        -0.2    1
## 2342          -1.661954e-02 -3.464027e-02         0.1    1
## 2343          -1.109719e-02  3.661149e-02         0.0    0
## 2344           3.660753e-02  1.335453e-02         0.2    0
## 2345           1.291052e-02 -6.207650e-02         0.1    0
## 2346          -7.407475e-02 -4.136098e-01        -0.3    0
## 2347           9.906850e-02  3.113292e-01         0.1    1
## 2348           1.057025e-01  9.145427e-02        -0.3    0
## 2349           2.749842e-02  1.118260e-01         0.2    0
## 2350           1.266102e-01  6.633476e-01         0.5    1
## 2351          -7.671835e-03  5.454545e-02        -0.1    0
## 2352          -2.413333e-02 -1.312741e-01        -0.2    0
## 2353           8.009038e-02  2.304440e-01         0.1    1
## 2354           4.036611e-02  1.685808e-01         0.2    1
## 2355           3.384220e-02  1.877395e-01         0.2    1
## 2356          -2.154613e-03 -3.754941e-02        -0.1    1
## 2357          -7.777880e-02 -1.094225e-01        -0.1    0
## 2358          -1.744515e-03  4.581334e-02        -0.2    0
## 2359           2.197191e-02  5.490196e-02         0.3    0
## 2360           1.246939e-02  9.555556e-02         0.1    0
## 2361          -1.679841e-02 -1.953748e-01         0.1    0
## 2362           3.306405e-02  1.004651e-01         0.0    1
## 2363           1.049894e-02 -8.789474e-02        -0.1    0
## 2364          -1.073950e-01 -2.716450e-01         0.1    0
## 2365          -7.735751e-02 -4.553846e-01        -0.5    0
## 2366           3.755170e-02  3.237179e-01         0.2    1
## 2367           1.655492e-02  6.298851e-02         0.0    0
## 2368          -4.747850e-02 -1.860663e-01        -0.1    1
```

```
## 2369          6.549177e-02  2.065986e-01          0.3  1
## 2370          2.737212e-02  5.774854e-02          0.4  1
## 2371         -2.987272e-02 -2.142857e-01          0.0  0
## 2372          2.252328e-02  5.940594e-02         -0.2  1
## 2373         -8.843381e-03 -1.492765e-01         -0.5  0
## 2374         -3.923293e-02 -2.283789e-01         -0.2  0
## 2375          3.263123e-02  4.705056e-02          0.0  0
## 2376         -1.053670e-02 -1.152090e-01          0.2  0
## 2377         -1.385341e-02  9.803922e-02          0.4  1
## 2378          4.220217e-02  2.327485e-01          0.2  1
## 2379         -1.354626e-02 -1.231412e-01         -0.3  0
## 2380         -3.786839e-02 -3.210702e-02          0.1  1
## 2381          6.937595e-03 -3.376906e-02          0.2  0
## 2382         -2.046342e-02 -1.875000e-01          0.0  0
## 2383         -4.907397e-02 -1.840580e-01         -0.2  0
## 2384          4.442731e-02  2.369052e-01          0.1  0
## 2385          8.757490e-02  1.138889e-01         -0.2  1
## 2386          7.020099e-03 -4.963855e-02          0.2  1
## 2387         -6.009824e-02 -1.238095e-01         -0.1  0
## 2388          3.885477e-02  6.277056e-02          0.3  0
## 2389         -1.265922e-02  6.257822e-04          0.1  0
## 2390          1.681275e-03  1.860218e-01          0.3  1
## 2391         -1.449062e-02 -1.190476e-01         -0.1  0
## 2392         -6.542911e-02 -1.279240e-01         -0.1  1
## 2393         -1.827610e-02 -6.321839e-02          0.0  1
## 2394          2.588541e-02  1.925213e-02          0.1  1
## 2395         -3.743310e-02  1.563707e-01          0.3  1
## 2396          6.952240e-02  3.179413e-01          0.4  1
## 2397         -6.933523e-02 -3.742277e-01         -0.5  0
## 2398         -9.475275e-02 -1.871795e-01          0.0  0
## 2399         -4.937302e-02 -1.553885e-01          0.3  0
## 2400          5.361705e-02  5.357143e-02         -0.1  1
## 2401         -4.404423e-02 -1.312500e-01         -0.3  0
## 2402         -4.261859e-03 -7.692308e-02         -0.3  1
## 2403          3.832794e-02  1.208791e-01          0.1  1
## 2404          3.955215e-02  3.127747e-01          0.3  1
## 2405         -1.188042e-02 -4.940711e-02          0.2  1
## 2406          8.003962e-02  1.962236e-01          0.0  1
## 2407          1.739111e-02  9.401709e-02          0.1  1
## 2408          4.396426e-02  1.169626e-01          0.0  1
## 2409         -5.157802e-03 -1.070423e-01         -0.2  1
## 2410         -7.453046e-02 -3.974359e-02          0.1  1
## 2411          1.879238e-02 -1.688183e-02         -0.4  0
## 2412         -7.739719e-02 -1.558442e-01         -0.2  1
## 2413          7.317424e-02  2.598039e-01          0.1  1
## 2414          2.229834e-02  9.485264e-02          0.1  1
## 2415          8.521610e-03  6.539589e-02         -0.1  1
## 2416         -8.925018e-02 -2.359679e-01         -0.3  0
## 2417          2.494849e-02  2.340349e-01          0.3  0
## 2418          8.326356e-03  8.599367e-02          0.2  1
## 2419          2.278412e-02  5.555556e-02          0.1  1
## 2420          4.634165e-03  1.386531e-02          0.1  1
## 2421         -5.619195e-02 -1.411501e-01          0.1  0
## 2422         -3.890735e-02 -1.165093e-01         -0.1  0
## 2423         -1.116757e-02 -1.634615e-01         -0.2  0
## 2424         -1.072522e-02  5.388128e-02         -0.1  0
## 2425          1.135180e-01  4.270677e-01          0.4  1
## 2426          3.759369e-02  4.176379e-03          0.0  0
```

```
## 2427          8.867145e-03  1.992278e-01          0.1   1
## 2428         -9.793617e-03 -2.831897e-01         -0.4   0
## 2429          2.345563e-02 -3.970588e-02         -0.2   0
## 2430          1.190396e-02 -1.861504e-02         -0.2   1
## 2431         -4.713984e-02 -7.532051e-02          0.1   0
## 2432         -2.869340e-03  7.268008e-02          0.0   1
## 2433         -3.420656e-02 -6.461634e-02          0.1   0
## 2434         -9.209555e-02 -2.860577e-01         -0.2   0
## 2435         -6.199911e-03 -4.032604e-02          0.0   0
## 2436          5.402231e-03  9.090909e-02         -0.1   1
## 2437          3.477462e-02  2.392846e-01          0.1   1
## 2438         -7.045185e-02 -1.465618e-01          0.4   0
## 2439         -6.739633e-03 -4.842105e-02          0.0   0
## 2440         -7.025454e-02 -4.271012e-01         -0.4   0
## 2441         -6.278440e-02  6.837607e-03          0.2   0
## 2442          5.029199e-02  2.030075e-01          0.1   0
## 2443         -1.879834e-02 -1.763158e-01         -0.2   0
## 2444          6.086233e-02  1.724138e-02         -0.2   1
## 2445         -2.612677e-03  3.534884e-02          0.2   0
## 2446         -1.255314e-02  8.510638e-02          0.0   1
## 2447         -7.162943e-02 -3.113208e-01         -0.2   1
## 2448         -1.617510e-02  8.750000e-02          0.1   1
## 2449         -2.058455e-02 -7.490184e-02          0.0   1
## 2450         -5.711940e-02 -3.000448e-01         -0.3   0
## 2451          1.988129e-02  2.084367e-01          0.2   1
## 2452         -3.283050e-02 -1.919192e-01         -0.2   0
## 2453          2.306739e-02  2.971014e-01          0.2   1
## 2454          3.546348e-02  2.837977e-01          0.3   1
## 2455          2.744404e-02  1.666667e-01          0.1   1
## 2456          8.033847e-03  1.114865e-01          0.3   1
## 2457         -1.063254e-01 -2.454545e-01         -0.2   1
## 2458         -4.785261e-02 -1.751152e-01         -0.5   0
## 2459          5.302564e-02  3.677606e-01          0.4   1
## 2460          2.178325e-02  4.506957e-02          0.1   1
## 2461         -1.054270e-01 -3.270677e-01         -0.4   0
## 2462         -1.732252e-02 -1.453782e-01         -0.5   0
## 2463         -7.430681e-02 -2.788051e-01         -0.2   1
## 2464         -4.602238e-02 -2.705110e-01          0.1   0
## 2465         -1.137190e-01 -3.050000e-01         -0.4   1
## 2466          7.090388e-02  9.880372e-02         -0.1   0
## 2467          7.088385e-03  2.708333e-01          0.1   1
## 2468          1.054025e-01  4.299231e-01          0.4   0
## 2469          3.820984e-02  2.705882e-01          0.3   1
## 2470          2.529992e-02 -2.095238e-01         -0.2   0
## 2471          2.940052e-02  1.181319e-01          0.1   1
## 2472          6.220894e-03  6.730092e-02         -0.1   1
## 2473          1.911430e-02  2.091222e-01          0.6   1
## 2474         -3.688724e-02  2.040134e-01          0.4   1
## 2475          7.037857e-02  1.143791e-01         -0.1   0
## 2476          7.663999e-02  1.723077e-01          0.2   1
## 2477         -1.751944e-02 -3.730428e-01         -0.8   0
## 2478          1.046153e-01  3.352095e-01          0.2   1
## 2479         -9.585652e-03 -5.769231e-03          0.2   1
## 2480         -1.235458e-02 -1.216578e-01          0.0   0
## 2481         -5.609487e-02 -2.751499e-01          0.0   0
## 2482         -1.934242e-02 -1.528785e-01         -0.3   0
## 2483         -1.378863e-02  1.771824e-01          0.0   0
## 2484          7.468640e-02  3.476636e-01          0.4   1
```

```
## 2485           -6.109588e-02 -4.303351e-01            -0.4    0
## 2486           -2.068411e-02 -4.619565e-02             0.0    0
## 2487           -2.122820e-02 -1.298701e-02            -0.1    1
## 2488            5.351786e-02  2.048583e-01             0.2    1
## 2489            2.823423e-03  3.418803e-02            -0.1    0
## 2490            3.762158e-02  1.835664e-01             0.4    0
## 2491            6.088566e-02 -3.716609e-02            -0.2    0
## 2492            4.542776e-02  2.474308e-01             0.3    1
## 2493            1.120514e-02  6.849315e-03             0.0    1
## 2494           -6.266895e-02 -1.760462e-01            -0.4    1
## 2495           -4.429364e-02 -2.072094e-01            -0.1    0
## 2496           -9.931751e-02 -2.300469e-01            -0.3    0
## 2497           -1.892226e-02 -2.297165e-02             0.1    1
## 2498           -7.238310e-03 -2.654321e-01            -0.4    0
## 2499            7.178475e-02  3.197674e-01             0.2    1
## 2500           -4.434133e-02 -1.490404e-01             0.1    0
## 2501           -6.213395e-02 -1.786178e-01            -0.3    0
## 2502            6.281434e-03  1.236674e-01             0.3    1
## 2503            8.872595e-02  3.107143e-01             0.4    1
## 2504           -2.020142e-02 -3.622145e-01            -0.4    0
## 2505           -1.042175e-02  6.469186e-02             0.0    0
## 2506            4.429128e-02  1.084507e-01             0.0    0
## 2507            2.667149e-02  3.500000e-01             0.4    1
## 2508            1.927233e-02  2.733583e-01             0.2    1
## 2509           -2.966287e-03  5.528846e-02             0.0    1
## 2510            1.759914e-02  4.444444e-02            -0.1    1
## 2511            3.607660e-02  2.451072e-01             0.1    1
## 2512           -6.004374e-02 -2.807018e-01            -0.3    0
## 2513           -1.149500e-02  3.858025e-02            -0.1    1
## 2514           -4.655837e-02 -2.487374e-01             0.0    0
## 2515           -5.878733e-02 -1.678281e-01             0.0    1
## 2516           -1.271290e-02 -6.278736e-02             0.1    1
## 2517            2.968267e-02  6.869070e-02             0.0    1
## 2518            4.232215e-03 -6.997948e-02            -0.1    0
## 2519            4.307347e-02  2.918600e-01             0.1    1
## 2520            4.265162e-02  1.550714e-01             0.2    1
## 2521           -1.620263e-02 -1.249534e-01            -0.1    0
## 2522            1.647977e-02  1.149068e-01             0.3    1
## 2523            2.424589e-02  5.938506e-02             0.0    0
## 2524           -5.321863e-02 -1.246979e-01            -0.2    0
## 2525            6.491880e-02  1.889205e-01             0.1    0
## 2526           -8.416183e-03 -2.029157e-01            -0.3    0
## 2527            2.396615e-02  1.204545e-01            -0.1    1
## 2528           -3.033233e-02 -1.497199e-01             0.1    0
## 2529           -6.888218e-02 -1.163004e-01            -0.1    0
## 2530            5.147221e-02  1.466213e-01             0.1    1
## 2531           -3.985495e-02  3.020216e-02             0.2    0
## 2532            8.834884e-03 -5.248778e-02            -0.1    0
## 2533            1.643725e-02 -1.994997e-01             0.0    0
## 2534            6.460349e-02  1.068627e-01            -0.1    1
## 2535           -1.628316e-02 -1.213892e-01             0.0    0
## 2536            4.284047e-02  3.168922e-01             0.4    1
## 2537            2.106917e-03 -2.500000e-01            -0.2    0
## 2538           -7.529118e-02 -2.539474e-01            -0.2    0
## 2539            2.369012e-02  1.350461e-01             0.2    1
## 2540           -1.851993e-02 -9.642118e-02            -0.1    1
## 2541            3.248468e-04  2.999026e-01             0.5    1
## 2542            8.506195e-02  9.157509e-02             0.0    1
```

```
## 2543          4.980513e-02  8.072175e-02          -0.2   1
## 2544         -6.221924e-02 -9.116809e-02          -0.2   1
## 2545          4.026700e-02  3.085714e-01           0.7   1
## 2546         -4.792602e-03 -8.497807e-03          -0.4   0
## 2547          5.082256e-02  1.369315e-01           0.2   0
## 2548          5.162980e-02  2.429995e-01           0.4   1
## 2549         -3.519050e-03  5.384615e-02           0.0   0
## 2550         -3.530743e-02 -2.705828e-01          -0.2   0
## 2551         -2.679998e-02 -3.756649e-02           0.1   1
## 2552          1.288531e-02  1.507246e-01           0.1   1
## 2553          5.204412e-02  1.470588e-01           0.2   0
## 2554         -1.513664e-02 -4.870690e-02           0.1   0
## 2555          2.626308e-02  1.208333e-01           0.2   1
## 2556          5.151501e-03  1.102564e-01           0.2   1
## 2557          4.316104e-02  9.726444e-02           0.1   1
## 2558          3.184900e-02  2.325000e-01           0.4   1
## 2559         -5.771987e-02  4.453441e-02           0.0   0
## 2560          1.068766e-01  2.321429e-01           0.2   1
## 2561          2.112189e-02  2.572674e-01           0.3   1
## 2562         -1.805922e-02 -1.692308e-01          -0.3   0
## 2563          7.955851e-02  1.133680e-01           0.1   1
## 2564          8.797185e-03  1.533366e-01           0.3   1
## 2565         -1.863165e-02  1.884701e-02           0.1   0
## 2566         -7.214271e-02 -4.780488e-01          -0.5   0
## 2567          1.939752e-03  8.641975e-02          -0.1   1
## 2568         -2.625019e-02 -6.119163e-02          -0.1   1
## 2569         -5.363346e-02 -8.869180e-02           0.2   1
## 2570         -4.100953e-02 -3.534572e-02          -0.1   0
## 2571         -5.710931e-02 -7.961165e-02           0.1   0
## 2572         -3.747067e-02 -1.960744e-01           0.0   0
## 2573         -1.087621e-02  1.118115e-01           0.2   0
## 2574         -5.683123e-02 -1.304535e-01           0.1   1
## 2575          5.201019e-02  2.160279e-01           0.0   1
## 2576         -2.030162e-02 -4.117647e-02           0.2   0
## 2577         -8.461071e-02 -4.448612e-01          -0.5   0
## 2578         -2.942555e-02 -1.557078e-01          -0.3   1
## 2579          2.002556e-02 -3.000000e-01          -0.3   0
## 2580         -8.126706e-02 -1.341880e-01          -0.1   0
## 2581          6.201299e-02  2.037781e-01           0.0   1
## 2582          4.677464e-02  2.375000e-01           0.2   1
## 2583         -9.007536e-03 -2.747126e-01          -0.5   0
## 2584         -6.472883e-02 -2.206288e-01          -0.3   0
## 2585          1.315526e-02  2.066445e-01           0.3   1
## 2586         -6.965861e-02 -3.517595e-01          -0.3   0
## 2587          6.599006e-03  9.792401e-02           0.1   1
## 2588         -7.143147e-02 -3.211144e-01          -0.5   1
## 2589          1.088448e-02 -9.180403e-02           0.0   1
## 2590          4.304060e-02  2.196970e-01           0.0   1
## 2591          3.032813e-02  5.781718e-02          -0.1   1
## 2592          1.355005e-02 -1.508046e-01           0.0   0
## 2593          2.980693e-02  2.266667e-01           0.2   0
## 2594          2.672870e-02  3.125000e-02           0.0   1
## 2595         -7.687449e-02 -1.116368e-01           0.0   0
## 2596         -3.801604e-02 -1.124402e-01          -0.1   0
## 2597          7.465998e-02  2.854123e-02          -0.2   0
## 2598         -2.029904e-02  6.799942e-02           0.1   1
## 2599         -4.335001e-02 -2.064777e-01          -0.5   0
## 2600         -2.985737e-02 -2.410665e-01          -0.1   1
```

```
## 2601        -2.083807e-02 -1.382609e-01          0.0  0
## 2602        -2.252763e-02 -1.500000e-01         -0.1  0
## 2603         1.229781e-02  1.511628e-01          0.2  0
## 2604         5.056709e-02 -1.420455e-01         -0.3  1
## 2605         2.770171e-02  6.578947e-02          0.1  1
## 2606        -3.261966e-02 -6.023374e-02          0.1  0
## 2607        -1.138370e-02  8.199643e-02          0.0  1
## 2608         3.483842e-02  2.356902e-02         -0.1  0
## 2609        -1.874134e-03  2.647059e-02         -0.1  0
## 2610        -4.242657e-03 -1.991279e-01         -0.1  1
## 2611        -3.396374e-02 -3.750000e-02          0.2  0
## 2612        -2.808818e-02 -4.838710e-02          0.3  0
## 2613         6.212477e-02  2.820513e-02          0.0  1
## 2614        -1.661985e-02 -7.875404e-02         -0.1  1
## 2615         1.228166e-02 -9.448052e-02          0.0  0
## 2616        -6.322726e-02 -1.714286e-01          0.0  0
## 2617        -3.918882e-02 -6.354680e-02         -0.1  0
## 2618         5.929376e-02  2.088745e-01          0.2  0
## 2619         3.737279e-02  5.909091e-02          0.2  1
## 2620         5.128317e-02  1.234568e-01          0.2  0
## 2621         2.225658e-02  1.678005e-01         -0.1  1
## 2622        -4.317482e-02 -1.319121e-01         -0.1  1
## 2623         7.424534e-03 -3.643892e-02          0.2  0
## 2624         1.786379e-03 -1.113636e-01          0.0  0
## 2625         1.351754e-02 -7.013575e-02         -0.2  0
## 2626         6.185537e-02  1.008403e-01          0.3  1
## 2627         7.152766e-02  1.960784e-01          0.1  0
## 2628        -6.152264e-02 -6.168831e-02          0.0  0
## 2629         7.114609e-03  1.156463e-01          0.0  0
## 2630        -1.316566e-02 -3.228410e-02          0.0  0
## 2631         1.915149e-02 -8.536585e-02         -0.1  0
## 2632        -1.737041e-02 -5.070423e-02          0.0  0
## 2633        -8.560969e-03 -2.857143e-02          0.0  1
## 2634        -1.263254e-02 -1.458054e-01          0.1  0
## 2635         1.254078e-02  4.667788e-02          0.3  0
## 2636         1.793511e-02 -4.851330e-02          0.0  1
## 2637         4.340866e-02  2.085020e-01          0.3  1
## 2638         1.112684e-02  2.054795e-02          0.1  1
## 2639         2.846196e-02  1.637255e-01          0.0  0
## 2640         2.040704e-02  2.174603e-01          0.2  1
## 2641         4.039059e-02  4.528986e-02          0.0  1
## 2642        -4.720516e-02 -8.227848e-02         -0.3  0
## 2643         4.171887e-03 -6.274131e-02          0.0  1
## 2644        -2.828519e-02 -9.432485e-02          0.0  0
## 2645         1.838635e-03 -3.475869e-02         -0.1  0
## 2646         4.011823e-02  1.145270e-01          0.1  0
## 2647        -1.160517e-03  1.308777e-01          0.0  0
## 2648         9.926555e-02  5.396825e-01          0.7  1
## 2649         1.703195e-03  6.250000e-02         -0.2  0
## 2650        -9.626887e-02 -3.412698e-01         -0.4  0
## 2651        -3.566328e-02 -3.475610e-02          0.2  0
## 2652        -3.250985e-02 -3.588589e-01         -0.2  0
## 2653        -8.063564e-02 -2.354757e-01         -0.1  0
## 2654        -2.982189e-02 -1.628372e-01         -0.5  1
## 2655        -6.223770e-02 -8.768873e-02         -0.1  0
## 2656        -1.967848e-02 -1.089849e-01          0.1  0
## 2657         4.223989e-03  8.058608e-02          0.0  1
## 2658         1.368365e-01  2.968801e-01          0.1  1
```

236

```
## 2659          3.838777e-02  3.696970e-01            0.5     1
## 2660          1.803621e-03  5.268817e-02            0.2     0
## 2661         -2.357724e-03 -6.987578e-02           -0.1     1
## 2662          3.743421e-02  1.559942e-01            0.2     1
## 2663          3.606760e-02  1.975588e-01            0.1     1
## 2664          2.609432e-02 -1.285714e-02           -0.2     0
## 2665         -4.335465e-02  3.858025e-02            0.4     0
## 2666          1.368520e-02  2.174782e-01            0.3     0
## 2667          3.417309e-02  9.372822e-02            0.0     1
## 2668         -1.081457e-01 -4.271264e-01           -0.3     0
## 2669         -9.833328e-02 -4.875706e-01           -0.3     0
## 2670          2.411575e-02  3.083333e-01            0.2     0
## 2671         -2.480237e-02 -2.471264e-01           -0.2     1
## 2672         -1.342237e-02 -1.908867e-01           -0.4     0
## 2673          1.991118e-02  5.894309e-02           -0.3     1
## 2674          3.153417e-02  2.175926e-01            0.2     1
## 2675          4.036065e-02  2.469136e-01            0.0     1
## 2676          3.009286e-02  6.962963e-02           -0.1     1
## 2677         -6.505734e-03 -3.142857e-01           -0.3     0
## 2678          4.647689e-02  9.378531e-02            0.1     1
## 2679         -1.073928e-01 -3.602484e-01           -0.3     0
## 2680         -4.176350e-02 -1.970231e-01           -0.1     0
## 2681         -1.556865e-02 -9.302326e-02           -0.1     0
## 2682          9.964430e-03  6.591865e-02            0.0     1
## 2683         -4.010105e-02 -2.892157e-01           -0.3     1
## 2684         -5.318916e-02 -1.866667e-01           -0.4     0
## 2685          1.015044e-02  4.285714e-02           -0.3     0
## 2686          4.040179e-02  1.901596e-01            0.0     1
## 2687          7.755771e-02  3.213321e-01            0.4     1
## 2688         -3.768586e-02 -2.103730e-01           -0.5     1
## 2689         -3.194653e-02  8.235294e-02            0.0     1
## 2690          3.377938e-02  8.131868e-02            0.0     1
## 2691          5.388321e-03  7.494090e-02            0.0     1
## 2692          7.601281e-03  9.303371e-02           -0.2     0
## 2693          8.314478e-02  8.173913e-02            0.2     1
## 2694         -5.418424e-02 -4.251647e-01           -0.6     0
## 2695          1.074446e-01  4.194703e-01            0.3     1
## 2696         -9.049554e-02 -3.442029e-01           -0.4     0
## 2697         -3.306716e-02 -1.476423e-01           -0.3     0
## 2698          5.088865e-02  2.464040e-01            0.4     1
## 2699          2.056270e-02  2.196932e-01            0.1     0
## 2700          2.500079e-03  7.471264e-02            0.4     0
## 2701         -7.060533e-02 -1.631163e-01            0.0     0
## 2702          6.880964e-02  3.491670e-01            0.6     1
## 2703         -3.001214e-02 -7.746479e-02           -0.1     0
## 2704          6.013815e-02  2.674550e-01            0.2     1
## 2705         -6.514878e-02 -3.780051e-01           -0.3     1
## 2706          1.204329e-01  1.475116e-01           -0.2     0
## 2707         -4.653341e-02 -1.726035e-01           -0.1     0
## 2708         -7.576610e-02 -2.689873e-01            0.1     0
## 2709          5.051810e-02  4.363025e-01            0.3     1
## 2710          4.945912e-02  3.306502e-01            0.2     0
## 2711          5.312779e-02  2.733686e-01            0.2     1
## 2712         -3.367415e-02  9.353323e-02            0.3     1
## 2713         -3.335470e-02 -1.568736e-01            0.0     0
## 2714          1.197927e-02 -2.200000e-01           -0.2     0
## 2715          1.064842e-01  3.618227e-01            0.3     1
## 2716         -4.400887e-02 -1.590909e-01           -0.3     0
```

```
## 2717          1.927651e-02  1.111111e-01            0.1   0
## 2718         -4.517406e-03 -8.814204e-02           -0.1   1
## 2719         -9.725612e-04  1.154499e-01           -0.1   1
## 2720         -2.458750e-02 -2.206807e-01           -0.3   1
## 2721         -7.913592e-02 -1.492958e-01           -0.3   0
## 2722         -1.170205e-02 -8.157895e-02            0.3   0
## 2723         -1.338035e-02  3.182754e-01            0.4   1
## 2724         -4.571230e-02 -1.738522e-01           -0.2   0
## 2725         -5.311713e-02 -2.669770e-01           -0.1   0
## 2726         -6.978350e-02 -1.489097e-01           -0.1   0
## 2727          4.105845e-03 -1.557971e-01           -0.2   0
## 2728          6.559536e-02  3.161512e-01            0.4   1
## 2729          5.282028e-02  2.920892e-01            0.2   0
## 2730          5.853331e-02  2.051899e-01           -0.1   0
## 2731          8.888018e-02  5.083333e-01            0.3   1
## 2732          5.670757e-03  4.315197e-02            0.3   1
## 2733         -1.640233e-02 -4.326396e-02           -0.2   1
## 2734          7.318270e-02  9.502262e-02            0.1   1
## 2735         -6.785210e-02 -3.837913e-01           -0.4   1
## 2736          2.791303e-03  1.029491e-01           -0.2   0
## 2737          5.410462e-02  1.666667e-01            0.2   1
## 2738         -3.372609e-02 -2.752976e-01           -0.3   0
## 2739          1.887945e-02  1.051357e-01            0.1   1
## 2740          1.409631e-02 -1.719577e-02            0.0   0
## 2741         -5.611955e-03  8.887426e-02            0.1   1
## 2742         -7.440210e-02 -1.292124e-01            0.1   0
## 2743         -5.556923e-03  9.767998e-02           -0.1   0
## 2744         -6.618359e-02 -1.791768e-01           -0.3   0
## 2745         -2.528738e-02 -1.384615e-01           -0.1   1
## 2746          3.174259e-03  2.879137e-01            0.3   1
## 2747         -1.813135e-02 -1.710407e-01           -0.2   0
## 2748          1.087236e-02 -1.865413e-01           -0.2   0
## 2749          3.763700e-02  1.568627e-01            0.1   0
## 2750          5.169083e-02  4.223058e-01            0.3   1
## 2751          4.373704e-02  1.304942e-01            0.0   1
## 2752         -1.341534e-03  1.815857e-01            0.1   1
## 2753         -2.743078e-02 -2.533960e-02            0.0   1
## 2754          1.170548e-01  3.402180e-01           -0.1   1
## 2755         -5.048942e-04  6.485671e-02           -0.1   1
## 2756          3.870580e-02  1.739130e-01            0.4   1
## 2757          4.053263e-02 -7.754011e-02           -0.3   1
## 2758         -1.712528e-02 -2.525253e-02            0.2   1
## 2759         -7.963767e-02 -1.987179e-01            0.0   0
## 2760         -2.537448e-02  2.635046e-03           -0.1   1
## 2761          7.365853e-02 -7.000000e-02            0.0   0
## 2762         -7.377992e-02 -3.267974e-02            0.1   0
## 2763          2.142753e-02 -1.260504e-01           -0.1   0
## 2764         -3.923007e-02 -3.016591e-02            0.0   1
## 2765         -1.061951e-01 -1.644518e-01            0.1   0
## 2766         -1.011651e-01 -1.448710e-01            0.1   0
## 2767          2.150891e-03 -2.226744e-01           -0.1   1
## 2768         -3.187161e-03  1.000000e-01            0.1   1
## 2769         -3.597930e-02 -1.016865e-01           -0.1   1
## 2770         -8.741475e-03 -9.243697e-02            0.0   0
## 2771         -1.815632e-02 -1.526316e-01           -0.1   0
## 2772         -5.145495e-02 -1.117103e-01            0.3   1
## 2773         -2.696953e-02 -3.124412e-02           -0.4   1
## 2774          9.152391e-02  2.004975e-01            0.3   0
```

```
## 2775          -4.535546e-02 -2.614379e-02          0.1    0
## 2776           2.149394e-03  1.774892e-02          0.2    0
## 2777          -5.279351e-03  1.821705e-02          0.0    1
## 2778           1.962295e-02 -5.845771e-02         -0.2    0
## 2779          -7.928118e-02 -3.038991e-01         -0.3    0
## 2780          -2.393574e-02  2.380952e-03          0.2    0
## 2781          -1.832118e-02 -1.494139e-01         -0.1    1
## 2782           8.789467e-02  1.129032e-01          0.0    1
## 2783          -6.721422e-03 -5.857832e-02          0.0    0
## 2784           1.020935e-01  4.285170e-01          0.3    1
## 2785           2.933462e-02  1.630252e-01          0.0    1
## 2786           5.568234e-02  2.600212e-01          0.4    1
## 2787           1.112373e-01  2.575758e-01          0.3    1
## 2788          -4.096846e-02 -7.142857e-02         -0.1    1
## 2789           2.880469e-02  1.140004e-01         -0.2    0
## 2790           2.369571e-02  2.297818e-01          0.2    1
## 2791          -7.434298e-03 -6.395128e-02          0.0    0
## 2792           1.735051e-02 -6.531532e-02          0.0    0
## 2793           7.539071e-03  7.664859e-02          0.1    1
## 2794          -5.308488e-02 -2.389150e-01         -0.3    0
## 2795          -9.723161e-03  7.863248e-03          0.0    0
## 2796          -2.662036e-02 -5.784946e-02          0.2    1
## 2797           4.041430e-03 -7.638889e-02          0.3    0
## 2798          -5.821548e-02 -1.836735e-01         -0.2    0
## 2799           2.506173e-02 -1.666667e-01         -0.1    1
## 2800           3.057519e-03 -6.944444e-02         -0.1    1
## 2801          -1.253427e-02 -2.005044e-01         -0.2    0
## 2802           2.138615e-02  3.809524e-02         -0.1    1
## 2803          -5.264563e-03  3.478731e-02          0.1    0
## 2804           6.605804e-02  2.438272e-01          0.3    1
## 2805           3.150226e-02  3.512545e-02          0.2    0
## 2806          -1.099322e-02 -1.350000e-01         -0.1    1
## 2807           6.455196e-03  9.009680e-02          0.0    0
## 2808           2.473370e-02  8.722359e-02          0.2    1
## 2809          -1.905251e-02 -5.695040e-02          0.2    1
## 2810          -1.424542e-02 -2.494970e-01         -0.4    1
## 2811          -2.014806e-02 -2.384416e-01         -0.2    0
## 2812          -1.220215e-02  0.000000e+00         -0.1    0
## 2813           5.180051e-02  2.644928e-01          0.6    1
## 2814          -1.107049e-02 -4.807692e-02         -0.2    1
## 2815           2.391557e-02  3.340381e-01          0.3    1
## 2816           2.978659e-02 -2.000000e-02          0.0    0
## 2817           2.349793e-02  2.102170e-01          0.4    0
## 2818          -1.815226e-02 -3.085470e-01         -0.1    1
## 2819           1.687255e-02 -1.053922e-01          0.0    1
## 2820           4.685919e-02  1.928571e-01          0.2    1
## 2821           3.310050e-02  2.778905e-01          0.2    1
## 2822          -6.732316e-02 -1.129110e-01         -0.2    0
## 2823          -2.898011e-03 -4.177006e-02          0.2    0
## 2824          -7.665451e-02 -2.086957e-01         -0.2    0
## 2825          -9.077014e-03 -5.861283e-02         -0.1    1
## 2826           8.302214e-02  1.815041e-01          0.3    1
## 2827           4.458418e-03  7.692308e-02          0.0    1
## 2828           6.657721e-02  2.117877e-01          0.4    1
## 2829          -4.821820e-02 -2.259339e-01         -0.2    0
## 2830          -2.959867e-03 -4.853129e-02          0.1    0
## 2831          -3.192310e-03  1.452020e-01          0.2    0
## 2832           8.467836e-02  2.032328e-01          0.3    1
```

```
## 2833       -2.106144e-02 -1.085859e-01        0.0   0
## 2834        2.693575e-02  1.471292e-01        0.3   0
## 2835       -6.204338e-02 -3.378788e-01       -0.4   0
## 2836        2.057317e-02  2.818182e-01        0.3   1
## 2837        4.120319e-03  5.555556e-02       -0.1   0
## 2838       -4.952447e-02 -9.068168e-03       -0.1   1
## 2839        1.732265e-02 -9.248055e-02        0.1   0
## 2840       -2.646825e-02 -3.693315e-02       -0.3   0
## 2841       -5.500557e-02 -1.021672e-01       -0.1   0
## 2842       -2.287571e-02 -2.601301e-01       -0.1   0
## 2843       -1.779127e-02 -1.693723e-01        0.0   0
## 2844       -5.266456e-03 -1.156118e-01       -0.1   0
## 2845        1.720426e-02  2.153110e-01        0.4   1
## 2846        6.682662e-02  2.024004e-01        0.0   1
## 2847       -2.446366e-02 -3.503091e-02        0.0   0
## 2848       -5.581473e-04  7.187789e-02       -0.1   1
## 2849        6.951827e-02  2.144979e-01       -0.2   1
## 2850       -1.276535e-02 -1.091292e-01       -0.1   1
## 2851        1.425832e-02  1.655825e-03        0.0   0
## 2852        1.951868e-02  7.183908e-02        0.0   1
## 2853        5.507611e-03  9.175258e-03        0.2   1
## 2854        1.337767e-02  5.185185e-02        0.1   0
## 2855        1.489824e-02  4.090354e-02        0.0   1
## 2856       -2.790334e-02 -8.887970e-02       -0.2   1
## 2857        1.781628e-02  1.508344e-02        0.1   0
## 2858        2.654685e-02 -9.523810e-03       -0.2   0
## 2859       -3.497378e-02  2.747253e-02        0.1   0
## 2860       -2.585185e-02 -6.250000e-02        0.0   1
## 2861        3.093282e-02  4.953146e-02       -0.3   0
## 2862       -6.864312e-02 -2.425926e-01        0.1   1
## 2863        1.648905e-02 -9.329710e-02       -0.4   0
## 2864       -4.081927e-02 -1.190476e-01       -0.1   1
## 2865        2.181553e-02 -2.155172e-02       -0.1   0
## 2866        3.570616e-03  9.230769e-02        0.0   1
## 2867       -1.084637e-02 -1.213518e-01        0.1   1
## 2868       -4.192393e-02 -1.666667e-01       -0.4   1
## 2869       -9.678325e-04 -4.757041e-02        0.0   1
## 2870        4.770599e-03  2.666667e-02        0.2   1
## 2871       -8.682739e-02 -3.088235e-01       -0.3   0
## 2872       -1.231286e-02  1.782531e-02        0.0   0
## 2873       -8.708098e-02 -4.668966e-01       -0.6   0
## 2874        1.067537e-02  2.777778e-03       -0.3   1
## 2875        2.228607e-02  1.855792e-01        0.1   0
## 2876        4.419241e-02  1.182692e-01        0.3   1
## 2877        1.669967e-03  5.450913e-02        0.1   1
## 2878        3.144516e-02  2.131398e-01        0.3   1
## 2879       -1.169793e-02  6.825397e-02        0.1   1
## 2880        3.145124e-03 -7.944481e-02       -0.3   1
## 2881       -4.991815e-02 -1.906210e-01       -0.2   0
## 2882       -1.255270e-02  6.657877e-02       -0.1   0
## 2883        2.878884e-02  4.025974e-02        0.0   0
## 2884        8.004424e-02  2.410148e-01        0.1   1
## 2885       -2.592375e-02 -1.602306e-01        0.0   1
## 2886       -4.006199e-02 -2.098848e-01       -0.1   0
## 2887       -1.920864e-02  2.000000e-01        0.2   1
## 2888        2.052933e-02  2.954545e-02        0.2   1
## 2889       -1.482924e-02 -3.663004e-02        0.0   0
## 2890       -5.829295e-03 -1.391941e-01       -0.1   0
```

```
## 2891          -1.652679e-02 -1.929182e-01              -0.4   0
## 2892          -2.620519e-02 -1.266667e-01               0.0   0
## 2893           9.500986e-03 -1.365219e-01              -0.1   0
## 2894          -2.726607e-02  2.006552e-02               0.0   1
## 2895           4.539622e-02  4.041483e-01               0.4   1
## 2896           4.892977e-02  2.653061e-01               0.2   1
## 2897           7.723032e-02  1.179654e-01               0.0   1
## 2898          -5.045819e-03  1.215356e-01               0.0   1
## 2899           8.654243e-02  3.333333e-01               0.3   1
## 2900          -5.169672e-02 -6.583688e-02               0.4   1
## 2901          -2.394860e-02 -1.325373e-01              -0.2   0
## 2902          -9.991209e-03  2.272727e-02               0.0   0
## 2903          -3.675065e-02 -1.576938e-01               0.1   0
## 2904          -7.225873e-03 -9.584980e-02              -0.1   0
## 2905          -9.594285e-03 -2.597403e-02               0.1   1
## 2906           5.120253e-02  3.049020e-01               0.3   1
## 2907           5.898951e-02  2.114943e-01               0.1   0
## 2908          -3.002016e-02 -2.194595e-01              -0.3   1
## 2909           2.286407e-02  6.764706e-02              -0.1   1
## 2910          -1.848724e-02 -4.238606e-02              -0.1   1
## 2911          -6.029198e-02 -3.056266e-01              -0.2   0
## 2912          -9.125739e-02 -2.123016e-01               0.2   0
## 2913           4.338716e-02  1.714771e-01               0.1   0
## 2914           3.295345e-02 -1.855072e-02              -0.2   1
## 2915           7.693118e-03  1.980557e-01               0.3   0
## 2916           4.186599e-02  1.665393e-01               0.1   0
## 2917          -3.115934e-02 -1.677985e-01              -0.4   1
## 2918           2.244219e-02  1.177290e-01               0.2   0
## 2919          -3.269643e-02 -1.206140e-01              -0.3   1
## 2920           8.223975e-02  2.490119e-01               0.4   0
## 2921          -4.578680e-02 -1.048265e-01              -0.4   0
## 2922           3.666315e-02  6.267806e-02               0.2   1
## 2923          -2.675689e-03 -2.377694e-01              -0.4   0
## 2924          -5.289910e-02 -2.189189e-01               0.0   0
## 2925          -4.202636e-02 -9.387755e-02              -0.5   0
## 2926           2.667573e-02 -1.457976e-01              -0.1   0
## 2927           1.007529e-02  4.264392e-03              -0.1   0
## 2928          -5.832408e-02 -2.875696e-01              -0.2   0
## 2929          -4.554030e-03  3.658537e-02               0.3   1
## 2930          -8.235712e-02 -1.587684e-01              -0.1   1
## 2931          -1.096846e-01 -1.901261e-01               0.0   1
## 2932          -7.634368e-04 -6.609195e-02               0.0   1
## 2933           5.897176e-04 -1.856925e-01              -0.2   0
## 2934           6.650799e-02  2.727273e-01               0.1   0
## 2935          -4.165850e-02 -1.603376e-01              -0.5   0
## 2936           1.684091e-02  1.428571e-01               0.0   1
## 2937          -5.562730e-02 -6.284247e-02               0.2   0
## 2938          -9.011053e-02 -2.279070e-01              -0.1   1
## 2939           2.800052e-02  4.502688e-02               0.4   0
## 2940           6.633028e-03  1.215278e-02               0.0   0
## 2941          -2.618593e-02  6.397306e-02               0.1   1
## 2942           5.867511e-02  2.529915e-01               0.3   1
## 2943          -9.951719e-02 -2.848485e-01              -0.4   0
## 2944           5.948186e-02  1.558408e-01               0.2   1
## 2945           5.348205e-02  1.611969e-01               0.0   0
## 2946          -4.322070e-02 -1.269841e-01              -0.2   1
## 2947          -3.370100e-02 -1.395984e-01              -0.3   0
## 2948           1.213802e-02  6.043956e-02              -0.2   1
```

```
## 2949          -1.442205e-02 -1.755663e-01          0.1   0
## 2950          -7.149991e-03 -7.000263e-02          0.0   0
## 2951          -3.381109e-02 -1.118881e-02          0.3   0
## 2952          -1.011503e-01 -1.696713e-01         -0.2   0
## 2953           5.160869e-04 -4.809524e-02          0.0   1
## 2954           4.351377e-03  2.213424e-01          0.1   0
## 2955          -1.199805e-02 -3.203661e-03          0.0   0
## 2956          -2.494245e-02 -8.122449e-02         -0.1   0
## 2957          -6.262048e-03 -1.204482e-01          0.1   1
## 2958           1.940645e-02  2.080745e-01          0.3   1
## 2959           6.207089e-03  1.113782e-01         -0.1   0
## 2960           3.793352e-02  1.676413e-01          0.2   0
## 2961           2.525424e-02  2.391470e-01          0.1   0
## 2962          -7.551598e-02 -3.907767e-01         -0.4   0
## 2963           6.668741e-03 -9.333333e-02          0.0   0
## 2964           3.078566e-02  7.517483e-02         -0.1   1
## 2965           1.673227e-02 -1.538462e-02          0.0   1
## 2966           7.073302e-03  1.923077e-01         -0.1   1
## 2967          -4.923135e-02 -1.576355e-01         -0.1   0
## 2968          -4.748648e-02  6.912682e-02          0.1   1
## 2969          -6.540946e-02 -1.129032e-01         -0.4   0
## 2970           8.801677e-03 -4.235907e-03          0.0   1
## 2971           1.263866e-02  4.533844e-02          0.0   1
## 2972          -1.070413e-02 -7.844130e-02         -0.3   0
## 2973          -3.263893e-03 -6.194860e-02         -0.1   0
## 2974          -1.820657e-02  1.191816e-01          0.0   1
## 2975          -6.137080e-02 -1.702128e-02         -0.2   0
## 2976          -2.136953e-02 -1.414286e-01         -0.2   1
## 2977           1.258086e-02  1.103056e-01          0.2   0
## 2978          -5.246971e-02  7.787210e-02         -0.2   1
## 2979          -1.428589e-02 -9.584178e-02          0.0   0
## 2980           1.404678e-02  1.514030e-01          0.0   0
## 2981          -9.962272e-02 -3.766234e-01         -0.1   0
## 2982          -4.042759e-02 -1.576471e-01         -0.2   0
## 2983           4.989394e-02  2.825980e-01          0.1   1
## 2984           6.073090e-02  5.022690e-02          0.2   1
## 2985          -1.099228e-02 -8.756757e-02         -0.1   0
## 2986          -4.790229e-03  7.451565e-04          0.1   0
## 2987          -1.070137e-01 -2.438718e-01         -0.1   0
## 2988          -2.083776e-02 -4.419192e-02         -0.2   0
## 2989          -2.300318e-02 -2.359609e-01         -0.5   0
## 2990           3.070744e-02  1.098429e-01          0.4   0
## 2991          -3.116300e-02  7.692308e-03          0.2   0
## 2992           7.699597e-03 -1.512359e-01         -0.3   1
## 2993          -2.342544e-02  9.163121e-02          0.1   0
## 2994          -2.141676e-02  2.765866e-02          0.1   0
## 2995          -2.889777e-02 -2.110781e-01         -0.1   1
## 2996           9.444588e-02  2.142857e-03         -0.1   1
## 2997          -9.570285e-02  4.326923e-02          0.3   0
## 2998          -1.751424e-03  8.186169e-02          0.3   0
## 2999          -4.818584e-02 -2.129380e-01         -0.1   0
## 3000           6.226667e-02  1.466905e-01          0.2   1
## 3001           1.350706e-02  1.458333e-01          0.2   1
## 3002          -4.063342e-02 -2.905983e-01         -0.6   0
## 3003          -1.855394e-02 -1.064356e-01          0.0   1
## 3004           6.153344e-02  2.042586e-02          0.2   0
## 3005           2.794247e-02  1.562753e-01          0.0   1
## 3006          -5.504970e-02 -2.318841e-01         -0.1   0
```

```
## 3007          3.178953e-02  8.157895e-02          0.2    1
## 3008         -3.533617e-02 -1.862102e-01         -0.3    0
## 3009          1.793518e-02  1.584181e-01          0.1    1
## 3010          1.419502e-02 -1.147099e-02          0.0    0
## 3011          5.636527e-02  3.074906e-01          0.1    1
## 3012         -2.568524e-02  2.132675e-01          0.4    0
## 3013          5.280132e-02  1.392456e-01          0.1    1
## 3014         -7.670740e-02 -1.274860e-03          0.3    0
## 3015         -1.963776e-02  7.014717e-02          0.1    0
## 3016          6.902382e-02  3.007519e-01          0.3    0
## 3017         -1.045821e-02 -2.088734e-01         -0.2    0
## 3018          9.954090e-03  9.606481e-02          0.0    1
## 3019         -3.793303e-02 -1.477273e-01          0.0    1
## 3020          1.830193e-03  2.946148e-02         -0.1    1
## 3021          2.878093e-02  1.461692e-01          0.1    1
## 3022          2.479945e-02 -1.453102e-01          0.0    0
## 3023          1.908030e-02 -1.443789e-01         -0.4    0
## 3024         -3.192848e-02  4.545455e-04          0.0    0
## 3025          2.370249e-02  1.561119e-01          0.1    1
## 3026          1.273930e-02 -1.132657e-02          0.0    1
## 3027         -2.487124e-02 -3.743132e-02         -0.3    0
## 3028          2.851084e-02  9.994086e-02          0.1    0
## 3029          3.187352e-03 -1.805556e-01         -0.1    0
## 3030         -1.879530e-02 -1.327606e-01         -0.3    0
## 3031          9.700890e-03 -1.350143e-01         -0.1    0
## 3032          2.944965e-03 -1.477861e-01          0.3    1
## 3033          6.325236e-02  6.294912e-02         -0.1    0
## 3034          5.165074e-02  3.513324e-01          0.5    0
## 3035         -6.797914e-02 -1.526077e-01          0.1    1
## 3036         -2.017703e-02  1.500256e-01          0.1    0
## 3037         -2.602679e-02  6.127451e-03         -0.2    1
## 3038         -6.001583e-02 -2.591049e-01         -0.2    0
## 3039         -3.503645e-03 -6.825749e-02          0.0    1
## 3040         -7.290741e-02 -1.829969e-01         -0.1    1
## 3041         -3.430176e-02 -1.187755e-01         -0.3    0
## 3042         -7.123491e-02  6.823289e-02          0.2    0
## 3043          8.126902e-03  2.222222e-01          0.3    1
## 3044         -1.242384e-03 -1.083333e-01         -0.2    0
## 3045         -5.474103e-02 -3.096903e-01         -0.2    0
## 3046         -7.898566e-03 -2.240896e-02          0.2    1
## 3047          1.312298e-02  2.955297e-02          0.1    1
## 3048         -9.055219e-03  1.585185e-01          0.1    1
## 3049         -1.727381e-02 -2.079125e-01         -0.2    0
## 3050         -4.007231e-03 -6.858993e-02          0.1    0
## 3051         -4.350376e-02 -1.344590e-02          0.0    0
## 3052          2.063872e-02  1.137255e-01          0.2    1
## 3053          2.209418e-02 -8.612440e-02          0.0    1
## 3054         -1.492295e-02 -7.638889e-02         -0.1    0
## 3055         -3.570920e-03 -2.222222e-02          0.1    1
## 3056         -5.316425e-02 -4.396031e-01         -0.3    0
## 3057          3.084079e-02  2.222222e-01          0.7    1
## 3058         -8.640976e-03  4.276811e-02          0.0    1
## 3059         -1.563641e-02 -1.169545e-01         -0.2    0
## 3060          2.969776e-02  7.073467e-02          0.1    1
## 3061         -6.723491e-02 -7.894737e-02          0.0    0
## 3062         -4.834188e-02  1.468254e-01          0.3    1
## 3063          7.553136e-02  1.172853e-01          0.2    1
## 3064          4.826646e-02  3.346134e-01          0.2    1
```

```
## 3065         -3.214191e-02  1.304348e-02        0.0  1
## 3066         -5.493154e-02 -1.381988e-01       -0.3  1
## 3067          2.112670e-02  4.104967e-02        0.3  1
## 3068         -5.117921e-02 -1.546717e-01       -0.4  0
## 3069          2.323864e-02 -1.188399e-01       -0.1  0
## 3070          2.253550e-02 -9.091978e-02       -0.1  0
## 3071          7.710398e-02  3.584253e-01        0.2  1
## 3072         -3.586051e-02 -3.001448e-01       -0.2  0
## 3073          1.166713e-02 -9.696970e-02       -0.1  0
## 3074         -7.562744e-02 -3.039172e-01       -0.1  0
## 3075         -2.730457e-02  4.004887e-03        0.0  0
## 3076          3.399389e-02  1.512543e-01        0.0  0
## 3077         -2.735715e-02 -1.829697e-01       -0.2  0
## 3078         -2.102257e-02 -6.615385e-02       -0.1  0
## 3079          5.668036e-02  2.212121e-01        0.0  1
## 3080         -2.492954e-02 -1.629032e-01       -0.2  0
## 3081         -2.018601e-02 -1.307554e-01        0.0  1
## 3082         -2.223915e-02 -1.281783e-01        0.0  0
## 3083         -1.677106e-02 -1.448748e-01        0.0  1
## 3084          2.107376e-02 -1.775593e-01       -0.3  0
## 3085          2.952423e-02 -1.450980e-02        0.0  0
## 3086         -1.858146e-02 -1.225051e-01       -0.2  1
## 3087         -2.058350e-03 -7.246377e-02       -0.1  1
## 3088         -5.003225e-02 -1.652174e-01       -0.1  1
## 3089          7.220818e-02  9.583333e-02        0.3  0
## 3090         -4.022987e-03  3.510312e-03        0.1  1
## 3091          4.200558e-02  4.717608e-02        0.0  1
## 3092         -9.690194e-03  1.610077e-01        0.0  1
## 3093          1.873168e-02 -2.922078e-02        0.0  1
## 3094          8.520346e-03  2.142857e-02        0.3  0
## 3095         -2.828069e-02 -5.402930e-02        0.3  1
## 3096          3.576523e-02  6.756757e-02        0.2  1
## 3097          1.145267e-02 -1.228070e-02       -0.2  0
## 3098         -4.407152e-02 -1.000000e-01       -0.1  1
## 3099         -4.960205e-04 -6.039689e-02        0.1  1
## 3100          4.339592e-02  9.735577e-02        0.0  1
## 3101          3.641745e-02  1.111111e-01        0.1  1
## 3102          4.360878e-03  9.803922e-03       -0.1  1
## 3103          1.144165e-01  4.445971e-01        0.1  1
## 3104          3.847620e-02  7.113821e-02        0.2  1
## 3105          2.703078e-02 -3.051106e-02       -0.1  1
## 3106         -1.785199e-02 -1.223987e-01        0.1  0
## 3107         -9.813245e-02 -1.742424e-01       -0.2  0
## 3108         -3.775709e-06 -1.631393e-02       -0.1  0
## 3109          5.070422e-02  8.571429e-02        0.2  0
## 3110          5.096318e-02  1.143737e-01        0.0  1
## 3111          1.074673e-02  3.707382e-02       -0.1  0
## 3112         -3.047611e-03 -4.536290e-02       -0.1  1
## 3113          4.653634e-02  1.108059e-01        0.1  1
## 3114          2.794024e-02  1.845878e-01       -0.3  1
## 3115         -1.996221e-02 -1.442971e-01       -0.2  0
## 3116          2.933152e-02  1.292645e-01        0.1  1
## 3117         -1.480838e-02 -1.768679e-01        0.0  1
## 3118          1.013657e-01  2.451545e-01        0.0  1
## 3119         -1.895400e-03  7.016211e-02        0.0  1
## 3120         -7.335276e-02 -1.465854e-01       -0.1  0
## 3121          4.897017e-02  1.201923e-01        0.0  1
## 3122          2.401538e-02  1.083663e-01        0.1  1
```

```
## 3123        2.465140e-03  7.233925e-02          0.0   0
## 3124        9.991695e-04  7.103175e-02          0.0   1
## 3125       -1.098898e-01 -1.772296e-01         -0.1   0
## 3126       -6.197034e-02 -5.195662e-02         -0.1   0
## 3127       -1.554587e-02 -4.672532e-02          0.1   1
## 3128       -3.787455e-04  2.616592e-02          0.1   1
## 3129        2.575003e-02  1.270338e-01          0.0   0
## 3130       -1.109130e-03 -2.702703e-02          0.2   0
## 3131        7.428490e-02  8.802589e-02         -0.1   1
## 3132        3.098525e-02  8.625647e-02          0.1   1
## 3133       -8.020363e-03  6.168831e-02          0.2   1
## 3134       -3.261616e-03 -1.182087e-02          0.0   1
## 3135        7.502249e-02  1.541371e-01          0.4   1
## 3136        8.434783e-02  3.125000e-01          0.2   0
## 3137       -5.011327e-02  4.511278e-02          0.0   0
## 3138       -3.565483e-02 -1.587302e-01         -0.3   0
## 3139        4.784154e-02 -1.935800e-02          0.0   0
## 3140       -2.808971e-02 -8.521739e-02          0.1   0
## 3141       -3.560094e-02 -1.219694e-02          0.3   1
## 3142       -3.335008e-02 -1.345029e-01          0.0   1
## 3143        5.761970e-02  1.875000e-01          0.2   1
## 3144       -2.946114e-02 -2.813046e-01         -0.2   0
## 3145       -8.999621e-02 -3.199048e-01         -0.2   0
## 3146        2.635067e-02  1.344788e-01          0.1   0
## 3147       -4.701949e-02 -2.199812e-01          0.0   0
## 3148       -2.278695e-02 -4.000535e-02          0.3   1
## 3149       -1.904031e-03  8.687517e-02          0.2   1
## 3150       -4.221874e-02 -1.835017e-01         -0.2   1
## 3151       -6.231060e-02 -2.634409e-01         -0.1   0
## 3152       -1.056779e-02  7.272727e-03          0.0   1
## 3153        1.718042e-02  1.818083e-01          0.1   1
## 3154        2.063531e-02  8.548027e-02          0.2   1
## 3155        1.174926e-01  3.250000e-01          0.3   1
## 3156        8.800255e-02  2.962244e-01          0.3   1
## 3157       -2.466694e-03  1.871795e-01          0.2   0
## 3158        6.152178e-02  6.839623e-02          0.3   1
## 3159        1.260414e-01  3.661616e-01          0.3   1
## 3160       -4.477392e-03 -1.516187e-01          0.1   0
## 3161       -4.678735e-02 -2.238943e-01         -0.6   0
## 3162        9.598064e-02  4.444444e-01          0.4   1
## 3163        6.380484e-03 -1.196809e-02         -0.2   0
## 3164       -5.201738e-02 -6.045752e-02         -0.1   1
## 3165       -4.762702e-02 -3.165992e-01         -0.1   0
## 3166        4.657229e-02  1.971104e-01          0.6   1
## 3167        4.160788e-02  2.745098e-01          0.3   1
## 3168       -4.110914e-02 -3.133803e-01         -0.3   0
## 3169       -3.732393e-02 -1.786325e-01          0.0   0
## 3170        1.276187e-01  3.717627e-01          0.1   1
## 3171       -4.120793e-02 -6.722689e-03          0.1   0
## 3172       -3.597718e-02 -1.533717e-01          0.1   1
## 3173       -1.111364e-02  6.944444e-02         -0.2   0
## 3174       -8.042638e-02 -2.494118e-01         -0.2   0
## 3175       -3.531659e-02  1.195652e-01          0.2   1
## 3176        7.539386e-02  1.621622e-01          0.3   1
## 3177       -9.435555e-02 -5.279805e-01         -0.5   0
## 3178       -7.538766e-02 -4.383224e-01         -0.5   0
## 3179        7.310855e-03  7.637774e-02          0.0   1
## 3180        9.833783e-02  3.060729e-01          0.4   1
```

```
## 3181          -5.016144e-02  1.164606e-01          0.2   0
## 3182           1.238898e-01  2.602564e-01          0.2   1
## 3183          -2.882216e-02 -5.879059e-02         -0.3   0
## 3184          -7.883386e-03 -6.410256e-02         -0.4   0
## 3185           2.644523e-03  3.770739e-03          0.1   0
## 3186          -1.092215e-01 -3.747412e-01         -0.3   0
## 3187           3.849315e-02  2.150183e-01          0.0   1
## 3188           2.051060e-02 -3.218391e-03          0.2   0
## 3189           1.921801e-02 -6.524064e-02          0.0   1
## 3190          -2.876099e-02 -3.351648e-01         -0.2   0
## 3191           2.041227e-02 -1.913580e-02          0.0   1
## 3192           7.326087e-02  2.582011e-01          0.3   1
## 3193          -9.490219e-03 -8.500244e-02         -0.5   0
## 3194           3.437232e-02  2.156673e-01          0.0   0
## 3195           2.858390e-02  1.076389e-01         -0.1   1
## 3196          -2.597225e-02 -2.475728e-01          0.1   0
## 3197          -3.237924e-02 -2.434634e-01         -0.1   0
## 3198           1.258716e-03  9.060707e-02          0.3   1
## 3199          -3.274557e-02  5.420054e-03          0.3   0
## 3200          -4.564357e-02 -2.265451e-01          0.0   1
## 3201          -2.811769e-02  1.108772e-01         -0.1   1
## 3202          -4.831063e-02 -4.873188e-01         -0.2   0
## 3203          -4.351482e-02 -2.957592e-01         -0.3   0
## 3204          -7.286197e-02 -7.062147e-04          0.2   1
## 3205          -2.853995e-02 -9.647673e-02          0.0   1
## 3206           3.844010e-02  1.909456e-01         -0.3   1
## 3207          -5.008006e-02 -1.695142e-01          0.0   0
## 3208          -4.366527e-03  1.792929e-01          0.2   1
## 3209          -3.117052e-02 -2.766651e-02          0.0   0
## 3210           4.246279e-03 -1.872242e-01         -0.2   0
## 3211           7.649959e-02  6.957547e-02          0.2   1
## 3212          -5.209720e-02 -1.257310e-01          0.2   1
## 3213          -4.624624e-03  8.611280e-02         -0.3   0
## 3214          -1.162095e-02  1.932990e-01          0.2   1
## 3215           2.612725e-02  1.560201e-01          0.2   1
## 3216           9.768681e-02  2.038065e-01         -0.1   1
## 3217          -9.487927e-02 -1.831140e-01         -0.1   0
## 3218          -6.780108e-02 -1.736542e-01         -0.2   0
## 3219           3.203556e-02  3.151467e-01          0.2   1
## 3220           1.901378e-02 -1.077425e-01          0.2   1
## 3221          -9.619014e-02 -2.394663e-01         -0.1   0
## 3222           5.774715e-03  4.933176e-02          0.0   0
## 3223           7.090312e-02  2.012940e-02          0.0   1
## 3224           3.151638e-02  2.666667e-01          0.0   1
## 3225           6.011724e-02 -1.082723e-02          0.0   1
## 3226           9.617441e-03  2.642857e-01          0.1   1
## 3227          -6.763107e-03 -2.646573e-01         -0.1   0
## 3228          -3.589288e-02 -1.335411e-01          0.1   0
## 3229          -4.735111e-02  1.158281e-01          0.0   1
## 3230           2.685763e-02 -1.177735e-01          0.0   0
## 3231           4.099054e-02 -4.825175e-02         -0.1   0
## 3232           4.364155e-02  1.091878e-01         -0.3   1
## 3233          -2.703439e-02 -2.471213e-03          0.1   1
## 3234          -4.826075e-02 -1.658514e-01         -0.1   1
## 3235           1.636455e-02  3.206326e-01          0.2   1
## 3236           5.121083e-02  4.139369e-02          0.1   0
## 3237          -1.164561e-02 -8.974359e-02         -0.1   0
## 3238           2.329921e-02  6.521739e-02          0.2   0
```

```
## 3239          -2.295087e-02  7.357357e-02          0.1    1
## 3240          -5.895742e-02 -1.652778e-01         -0.2    1
## 3241          -4.500091e-02 -5.194805e-02         -0.2    0
## 3242           3.592912e-02  3.682171e-02         -0.2    0
## 3243           3.253139e-02  5.058043e-02          0.0    0
## 3244          -4.156018e-02 -5.128205e-02          0.0    1
## 3245           1.558235e-02  4.868154e-02          0.2    1
## 3246           1.373856e-02  1.739712e-01          0.1    1
## 3247          -8.824772e-03  3.355395e-02          0.1    1
## 3248          -3.612336e-02  4.273504e-03         -0.1    0
## 3249          -2.062714e-03 -1.473923e-02          0.1    1
## 3250           4.685391e-02  1.058824e-01         -0.2    1
## 3251          -4.846270e-02 -1.315789e-01         -0.5    1
## 3252          -5.078586e-02 -1.134694e-01         -0.2    0
## 3253           9.906216e-02  2.751196e-01          0.2    1
## 3254           4.206828e-02  1.663978e-01         -0.1    1
## 3255           6.863919e-02  2.041818e-01          0.0    1
## 3256           1.001157e-03  7.777778e-02          0.0    1
## 3257           2.337975e-02  2.693603e-01          0.2    1
## 3258           5.350074e-05 -3.382664e-02         -0.2    0
## 3259           6.563287e-02  1.709402e-01          0.1    0
## 3260           2.411639e-02  1.342062e-01         -0.1    1
## 3261           1.878270e-02 -3.945250e-02          0.0    1
## 3262          -2.609598e-02 -5.180328e-02         -0.2    1
## 3263           3.570582e-02  1.300000e-01          0.0    1
## 3264          -7.933161e-02 -2.000000e-01         -0.1    0
## 3265          -2.687158e-02 -5.357143e-02         -0.1    1
## 3266          -4.803443e-02 -8.803763e-02         -0.1    0
## 3267           1.774779e-02  1.062452e-01          0.2    1
## 3268           9.625411e-03  3.920963e-02         -0.2    1
## 3269          -1.196139e-02 -2.981030e-02         -0.3    0
## 3270           6.451298e-02  2.465246e-01          0.4    0
## 3271          -5.671381e-02 -2.128205e-01         -0.1    0
## 3272          -1.627090e-02 -1.666667e-01          0.1    1
## 3273          -3.215569e-03  1.020408e-01          0.1    1
## 3274           1.115274e-02 -1.294904e-01          0.0    1
## 3275           7.493420e-02  1.931217e-01          0.3    0
## 3276           1.699380e-03  1.708333e-01          0.4    1
## 3277           1.502380e-02  1.533776e-01          0.0    1
## 3278           3.379295e-03 -9.489303e-02         -0.1    1
## 3279           1.498024e-02  5.004170e-03         -0.1    1
## 3280          -1.165385e-02 -3.557312e-02         -0.2    1
## 3281           4.610401e-03 -3.978979e-02         -0.3    0
## 3282           2.567631e-02 -1.860465e-02          0.1    1
## 3283           1.915604e-02  5.682103e-02          0.0    1
## 3284           6.653435e-02  2.224959e-01          0.2    1
## 3285           2.538468e-02  3.375000e-01          0.7    1
## 3286           5.314751e-02  2.101329e-01          0.0    1
## 3287          -2.017697e-02 -7.207207e-02         -0.1    0
## 3288          -2.676606e-02 -3.898734e-02          0.2    1
## 3289          -1.549112e-02 -2.024457e-01         -0.2    0
## 3290           1.151916e-01  3.251701e-01          0.3    1
## 3291           2.809169e-02  1.170645e-01         -0.1    1
## 3292          -3.273650e-02 -1.755319e-01         -0.3    1
## 3293           2.862604e-02  8.284734e-02         -0.1    1
## 3294           3.843408e-03  2.964255e-02         -0.4    0
## 3295           2.602962e-02  1.492281e-01         -0.2    1
## 3296          -1.204757e-03 -4.117647e-02         -0.4    1
```

```
## 3297          -2.531529e-02 -2.009483e-01          -0.1   0
## 3298           1.118407e-02  1.424038e-01           0.1   1
## 3299          -3.606014e-02 -3.312409e-01          -0.4   0
## 3300          -5.277003e-02 -1.867270e-01          -0.1   1
## 3301           2.379417e-03 -3.004032e-01          -0.3   0
## 3302          -3.837723e-02 -2.777778e-02          -0.1   0
## 3303           5.012249e-02  1.923077e-01           0.4   1
## 3304          -3.225862e-03  4.891808e-02          -0.1   0
## 3305          -2.048711e-02 -2.271914e-01          -0.1   0
## 3306           5.487928e-03  1.021062e-01           0.0   1
## 3307           2.398090e-02  1.375242e-01           0.1   1
## 3308          -5.168713e-02 -1.000000e-01          -0.2   0
## 3309          -2.417101e-02 -1.824176e-01           0.0   1
## 3310          -4.700741e-03  3.042035e-02           0.0   0
## 3311          -3.440433e-02 -2.317568e-01          -0.1   0
## 3312           2.063634e-02  3.758871e-02           0.1   1
## 3313          -5.749091e-02 -2.760181e-01          -0.4   0
## 3314          -1.382320e-01 -5.753968e-01          -0.5   0
## 3315          -1.745552e-02 -1.401561e-01          -0.3   0
## 3316           6.880623e-03  9.044658e-03           0.2   0
## 3317          -2.827124e-02 -1.164087e-01           0.0   1
## 3318           3.302126e-02  1.328431e-01           0.4   0
## 3319          -5.213464e-02 -7.847602e-02          -0.3   0
## 3320          -7.530702e-02 -3.242773e-01          -0.3   0
## 3321          -1.176909e-02 -2.939560e-02           0.2   0
## 3322          -5.882693e-02 -1.082251e-01           0.1   0
## 3323           1.733976e-02 -1.037655e-01          -0.2   0
## 3324          -9.391491e-02 -2.945545e-01          -0.4   1
## 3325           2.628627e-02  1.948622e-01           0.0   0
## 3326           4.619617e-02  2.096203e-01           0.2   1
## 3327          -2.062592e-02 -8.966862e-02          -0.3   0
## 3328          -2.804484e-02 -1.599716e-01          -0.1   0
## 3329          -1.425710e-03 -1.534954e-01           0.0   1
## 3330           5.147344e-02  2.547241e-01           0.2   1
## 3331           5.252846e-02 -8.823529e-02           0.0   1
## 3332          -1.945859e-02 -5.319902e-02           0.0   1
## 3333           5.425371e-02  2.594340e-01           0.2   1
## 3334           3.715680e-02  2.098795e-01           0.1   0
## 3335          -1.410968e-02  2.121212e-02           0.3   0
## 3336           3.705126e-02  4.279661e-01           0.3   1
## 3337           1.882240e-03  6.964165e-02           0.1   1
## 3338          -8.540714e-02  1.250000e-02           0.0   1
## 3339          -1.587956e-02 -1.975251e-01          -0.3   0
## 3340           6.337871e-03  2.398467e-01           0.4   1
## 3341          -4.261026e-02 -1.956522e-01           0.1   0
## 3342          -6.904055e-03  8.314856e-04           0.1   1
## 3343           3.444762e-02  9.245064e-02           0.2   1
## 3344           2.586739e-02  1.692810e-01           0.1   1
## 3345          -9.571731e-02 -3.493606e-01          -0.2   0
## 3346          -1.994159e-02  3.724490e-02           0.1   0
## 3347           1.568342e-02  1.863485e-01           0.3   1
## 3348           2.176760e-02 -6.689342e-02           0.0   0
## 3349          -2.500888e-02 -3.074353e-01          -0.2   0
## 3350          -5.644944e-02  1.330532e-02          -0.2   0
## 3351          -4.323940e-03 -1.297619e-01          -0.1   0
## 3352           9.282002e-02  2.191358e-01           0.2   1
## 3353          -2.711426e-02 -2.182048e-01          -0.3   0
## 3354           3.006318e-02 -7.692308e-03           0.3   1
```

```
## 3355       -7.488176e-02 -3.686317e-01        -0.2  0
## 3356        4.509594e-02  3.893215e-02         0.0  1
## 3357        6.679233e-02  2.914373e-01         0.3  1
## 3358       -1.660124e-02  4.601571e-02        -0.1  0
## 3359       -3.050828e-02 -1.896288e-01         0.0  0
## 3360        2.319505e-02 -1.010254e-01         0.1  0
## 3361       -2.647094e-02 -7.463330e-02        -0.4  0
## 3362       -1.309675e-02  7.238095e-03         0.1  0
## 3363       -1.599151e-02 -1.366729e-01        -0.1  0
## 3364       -2.188383e-03 -6.008869e-02        -0.1  0
## 3365       -5.903869e-03  9.661836e-03         0.2  1
## 3366       -2.985866e-02 -4.182754e-02        -0.1  0
## 3367       -3.925258e-02 -9.762349e-02         0.0  1
## 3368       -8.406106e-03 -5.071770e-02         0.2  0
## 3369       -2.452960e-02  1.309077e-01         0.0  1
## 3370        7.006858e-02  1.914265e-01         0.4  1
## 3371       -2.394991e-03  5.194175e-02         0.3  0
## 3372       -1.959643e-02 -3.352490e-02         0.1  0
## 3373       -2.974984e-02 -7.857517e-02        -0.1  0
## 3374        5.877480e-03  7.014085e-02         0.1  1
## 3375       -1.051415e-01 -3.326733e-01        -0.2  0
## 3376       -8.749771e-03 -1.142857e-01        -0.1  0
## 3377       -7.102879e-02 -1.155289e-01        -0.2  1
## 3378        5.330666e-02  2.095238e-01         0.2  0
## 3379        4.247114e-02  1.063799e-01         0.0  1
## 3380       -1.970171e-02  1.801702e-02        -0.3  1
## 3381        2.528805e-03  5.497076e-02        -0.1  0
## 3382        1.885492e-02  2.389486e-03         0.1  0
## 3383        3.355662e-02  1.389274e-01         0.2  1
## 3384       -4.704013e-02  7.125506e-02        -0.2  0
## 3385       -2.966286e-02 -1.962451e-01        -0.1  1
## 3386       -4.189006e-02 -1.027183e-01         0.1  0
## 3387       -1.873527e-03  6.926407e-02        -0.1  0
## 3388       -7.739749e-02 -3.486437e-01        -0.5  0
## 3389        8.962814e-03 -7.253968e-02         0.2  1
## 3390        3.883953e-02  1.391491e-02         0.0  1
## 3391        5.732087e-02  1.304134e-01         0.2  1
## 3392       -2.742684e-02  1.329787e-01         0.2  1
## 3393       -5.791355e-03 -5.037665e-02         0.1  0
## 3394       -9.864909e-02 -3.206600e-01        -0.3  0
## 3395       -1.757332e-02 -1.111111e-01         0.0  0
## 3396        6.384246e-02  2.832207e-01         0.2  0
## 3397        2.883152e-02  9.207642e-02         0.1  1
## 3398        1.707931e-02  1.054945e-01        -0.2  0
## 3399       -6.897068e-02 -1.977702e-01        -0.2  1
## 3400       -4.774774e-04 -5.608974e-02        -0.2  0
## 3401       -3.612253e-02 -5.000000e-02        -0.1  0
## 3402       -3.664177e-02 -1.428571e-01         0.2  0
## 3403       -5.670396e-02 -2.461386e-01         0.0  1
## 3404        2.810299e-02  1.364890e-01         0.2  0
## 3405        1.390219e-02  5.319468e-02         0.0  1
## 3406        5.895790e-02  6.869115e-02         0.2  1
## 3407        1.962110e-02  9.353147e-02         0.2  1
## 3408        1.383470e-02  0.000000e+00         0.0  0
## 3409       -1.171510e-02  1.320569e-01         0.0  0
## 3410       -4.812239e-03 -9.912768e-02        -0.3  0
## 3411        2.356847e-02 -5.454026e-02        -0.1  1
## 3412       -5.867451e-02  1.323857e-02         0.1  1
```

```
## 3413        3.026361e-02  4.360902e-02           0.1  0
## 3414        1.827783e-02  2.711864e-01           0.4  1
## 3415        2.954476e-03 -1.880880e-01          -0.1  0
## 3416        4.970117e-02  2.558679e-01           0.3  1
## 3417       -2.525720e-03  1.785714e-02           0.2  1
## 3418       -5.922813e-03  7.800752e-02          -0.1  0
## 3419        1.920623e-02  5.087209e-02           0.1  1
## 3420       -6.538849e-02 -2.358099e-02          -0.3  0
## 3421       -4.014599e-02 -1.446078e-01           0.2  0
## 3422        3.599617e-02 -4.329004e-03           0.1  1
## 3423       -3.518783e-03  7.610908e-02           0.2  0
## 3424        3.982304e-02  8.602941e-02          -0.2  1
## 3425        7.785489e-03 -4.586081e-02           0.0  0
## 3426        4.870284e-02  4.764493e-02           0.0  1
## 3427        5.074048e-02  1.312785e-01           0.0  0
## 3428        5.933557e-02  1.702715e-01          -0.1  1
## 3429        1.781741e-03  6.712207e-02           0.1  0
## 3430       -3.095357e-02 -1.344828e-01          -0.1  0
## 3431       -1.189656e-02 -1.600547e-01          -0.1  0
## 3432        8.550359e-03 -1.661279e-01          -0.3  0
## 3433       -6.060500e-02 -1.244444e-01          -0.1  1
## 3434        4.034843e-02  6.666667e-02           0.1  1
## 3435        7.033495e-02  1.923077e-01           0.2  1
## 3436       -2.915397e-02 -2.315364e-01           0.0  0
## 3437        1.592609e-03 -3.750000e-02          -0.3  1
## 3438        5.993497e-02  1.340909e-01           0.2  1
## 3439       -9.524032e-03 -1.964131e-01          -0.3  0
## 3440        7.781958e-03 -1.358508e-01          -0.1  1
## 3441       -1.592472e-02  6.362672e-02           0.2  0
## 3442        5.279197e-02  9.372638e-02           0.2  1
## 3443        3.578675e-02  2.659957e-02           0.2  0
## 3444       -2.096834e-02 -1.338365e-01          -0.3  1
## 3445        2.807989e-02  2.025911e-01           0.2  0
## 3446        2.995892e-02  1.293706e-01           0.3  1
## 3447        2.487428e-03  1.345502e-01           0.2  1
## 3448       -6.933156e-02 -2.442529e-01           0.0  0
## 3449        4.933933e-02  2.159412e-01          -0.1  0
## 3450        2.913476e-02  8.888889e-02           0.1  1
## 3451       -3.775738e-02  1.522629e-01           0.0  1
## 3452       -9.072601e-03  1.449799e-01           0.2  1
## 3453       -6.922521e-02 -1.881818e-01          -0.1  0
## 3454        3.746669e-02  1.715400e-01           0.2  0
## 3455       -3.257757e-02 -3.809524e-02          -0.1  0
## 3456        8.796438e-03  3.119658e-02          -0.2  1
## 3457        4.156056e-02  3.234501e-02           0.0  1
## 3458       -4.811966e-02  6.699346e-02           0.1  1
## 3459        1.578056e-02  1.561743e-01           0.0  1
## 3460       -7.772812e-03 -4.360156e-02           0.0  1
## 3461       -2.691947e-02 -1.924134e-02          -0.2  0
## 3462       -1.956585e-02 -2.189868e-01          -0.1  0
## 3463        3.429564e-02  2.117969e-01           0.4  0
## 3464        1.625370e-03  3.072197e-03          -0.1  0
## 3465       -7.140020e-02 -3.180077e-01          -0.3  1
## 3466       -2.757474e-02 -7.575758e-02           0.2  0
## 3467       -6.379760e-02 -2.039411e-01          -0.3  0
## 3468       -7.538534e-02 -1.309020e-01           0.0  1
## 3469       -1.729752e-02 -1.356005e-01          -0.1  0
## 3470        4.030808e-02  2.385965e-01          -0.1  1
```

```
## 3471          3.504285e-02  1.441648e-01           0.1  0
## 3472          5.958019e-02  1.047619e-01           0.3  1
## 3473         -1.819379e-02  6.758373e-02           0.2  0
## 3474         -5.884036e-02 -1.517241e-01          -0.2  0
## 3475         -3.500255e-02 -1.403590e-01           0.0  0
## 3476          1.535562e-02  7.936508e-03           0.4  0
## 3477         -6.194453e-02 -1.823941e-01          -0.1  0
## 3478          1.477591e-02 -1.680672e-01           0.0  1
## 3479          4.044965e-02  1.338928e-01           0.2  0
## 3480         -4.908191e-02 -2.734664e-02          -0.1  0
## 3481         -2.107535e-02 -1.415094e-01          -0.3  0
## 3482          5.014603e-02  2.035196e-01           0.0  1
## 3483         -7.164499e-02 -8.895131e-02           0.1  0
## 3484          3.193071e-02  1.666667e-02           0.2  1
## 3485          1.270488e-02  2.991453e-01           0.4  0
## 3486          7.111858e-02  1.848816e-01           0.4  1
## 3487         -5.861151e-03 -1.416040e-01          -0.1  0
## 3488         -4.146102e-02  1.709402e-02           0.0  0
## 3489          1.071147e-02  8.106169e-02          -0.3  1
## 3490          2.206227e-02  8.954409e-02           0.0  1
## 3491          4.883529e-02  1.920750e-01           0.4  1
## 3492          6.946670e-03 -5.015198e-02           0.0  0
## 3493          4.331341e-02  1.937921e-01           0.0  1
## 3494         -2.831273e-02 -4.329004e-02           0.0  1
## 3495          3.720657e-02  1.740741e-01           0.4  1
## 3496          3.222107e-02 -2.011905e-01          -0.4  1
## 3497         -1.245343e-02 -3.752002e-02          -0.3  1
## 3498         -4.211022e-02  5.473602e-02          -0.2  0
## 3499          3.464273e-02  1.911495e-01           0.4  1
## 3500          4.656838e-02  2.818841e-01          -0.1  1
## 3501          4.442842e-02  2.027546e-01           0.1  1
## 3502         -5.053591e-02 -3.953905e-01          -0.5  0
## 3503         -4.580939e-02 -1.592677e-01          -0.2  0
## 3504          3.153619e-04 -1.729244e-01           0.1  0
## 3505          4.838708e-03  3.489736e-02          -0.2  0
## 3506         -4.293268e-02 -1.394584e-01          -0.3  0
## 3507          1.965740e-02  2.155172e-02           0.2  1
## 3508         -3.610281e-02 -5.343980e-02          -0.1  0
## 3509         -3.647683e-03  2.457265e-02           0.0  1
## 3510         -2.925341e-02 -3.601771e-01          -0.5  0
## 3511          1.989638e-02  1.131176e-01           0.1  1
## 3512          4.303002e-03  2.898551e-04           0.0  1
## 3513          3.397435e-02 -1.071429e-01           0.2  1
## 3514          5.692478e-03 -3.248588e-02           0.0  1
## 3515          9.480197e-03  3.681981e-02          -0.1  0
## 3516         -8.426435e-02 -1.814479e-01          -0.1  1
## 3517         -4.891321e-02 -1.098313e-01           0.1  1
## 3518         -7.520382e-02 -1.134259e-01          -0.2  1
## 3519         -4.868740e-02  5.176471e-02           0.1  1
## 3520         -2.238874e-02 -1.203236e-01          -0.5  1
## 3521         -6.008581e-02 -3.003003e-01          -0.3  0
## 3522          4.732692e-02  2.142857e-01           0.1  0
## 3523          4.136712e-02  6.349206e-03           0.1  0
## 3524          8.975076e-02  3.166667e-01           0.2  1
## 3525          3.376289e-02  5.389097e-02           0.1  0
## 3526          1.214714e-02  5.415683e-02           0.0  1
## 3527          3.179035e-02 -3.715776e-02          -0.2  0
## 3528          4.376869e-04  6.631579e-02          -0.3  0
```

251

```
## 3529          2.810513e-02  6.607738e-02          0.1   0
## 3530          9.128081e-02  3.354761e-01          0.3   1
## 3531          1.991121e-02  1.571429e-01          0.4   1
## 3532         -2.413665e-02 -7.818541e-03          0.0   1
## 3533          5.187116e-02  2.142857e-01          0.0   1
## 3534         -3.745672e-03  4.761905e-02          0.3   1
## 3535         -3.002154e-02 -1.232323e-01         -0.2   0
## 3536         -1.468372e-02 -3.733766e-02         -0.1   0
## 3537         -1.214588e-02 -1.051136e-01         -0.1   0
## 3538         -7.468200e-02 -4.380952e-01         -0.4   0
## 3539          6.894872e-03 -3.213058e-02         -0.1   0
## 3540          4.432216e-02  1.405351e-01          0.2   1
## 3541         -4.370232e-02 -1.034370e-01         -0.2   1
## 3542          2.454285e-02  1.281159e-01          0.0   1
## 3543          8.541384e-02  1.816322e-01          0.2   1
## 3544          5.646779e-02  1.665733e-01          0.4   0
## 3545          8.477401e-02  3.314394e-01          0.2   1
## 3546          5.972627e-02  2.174086e-01          0.4   1
## 3547          1.520308e-02 -3.891403e-02         -0.2   0
## 3548          3.479076e-04 -1.713816e-01          0.0   0
## 3549          2.526920e-02  1.830769e-01          0.1   1
## 3550         -1.029636e-02 -1.172231e-01         -0.3   1
## 3551          3.028479e-02  3.093137e-01          0.3   1
## 3552          4.357844e-02  1.914150e-01          0.2   1
## 3553          1.324335e-02  1.079235e-01          0.3   1
## 3554         -3.504490e-02 -1.335386e-01         -0.1   1
## 3555         -9.944862e-03  7.371232e-02          0.1   1
## 3556          4.155440e-02  2.108516e-01          0.3   0
## 3557          1.281613e-02  4.431872e-02         -0.3   1
## 3558         -1.455388e-02 -1.416816e-01         -0.2   0
## 3559          6.180385e-02  3.363551e-01          0.3   0
## 3560         -4.946375e-02 -1.885234e-01         -0.2   1
## 3561          5.523022e-02  1.467662e-01          0.2   1
## 3562         -7.970679e-02 -2.272727e-01         -0.2   1
## 3563          1.017909e-01  2.751323e-01          0.1   1
## 3564          5.523607e-03  6.754032e-02          0.2   0
## 3565         -4.659386e-02 -3.377287e-01         -0.6   0
## 3566         -3.670378e-02 -2.847970e-01         -0.4   0
## 3567         -5.597235e-02 -1.023359e-01          0.2   0
## 3568         -1.565240e-02  5.813172e-02          0.5   0
## 3569          9.873516e-03  9.504709e-02          0.0   1
## 3570          4.443382e-02  1.796674e-01         -0.2   0
## 3571          1.863570e-03  7.304625e-02         -0.1   0
## 3572          6.130507e-02  1.975000e-01          0.1   1
## 3573          3.892829e-03 -5.687803e-03          0.2   0
## 3574         -6.152942e-02 -1.902655e-01         -0.4   0
## 3575         -2.276093e-02  6.570973e-02         -0.1   1
## 3576         -3.347940e-02 -1.205243e-01         -0.2   0
## 3577          1.034339e-02  3.379310e-01          0.1   1
## 3578          2.631325e-02  2.213146e-01          0.4   1
## 3579         -3.774471e-02  1.334804e-01          0.1   0
## 3580          4.162610e-03 -2.883117e-01         -0.1   1
## 3581          1.539936e-02 -2.762196e-02          0.0   1
## 3582          1.988637e-02  6.201299e-02          0.3   0
## 3583          1.126815e-01  2.431818e-01          0.3   1
## 3584          4.531589e-02 -3.187559e-02          0.1   1
## 3585         -3.561266e-02 -7.497517e-02         -0.1   0
## 3586         -3.892861e-03 -3.375481e-02         -0.2   0
```

```
## 3587        1.687775e-02 -1.435595e-01         -0.2    1
## 3588        3.833004e-02  9.475705e-02         -0.1    1
## 3589        6.734314e-02  1.435160e-01          0.0    0
## 3590        3.703388e-03  5.985759e-02          0.1    1
## 3591        3.510086e-04  7.142857e-02          0.0    1
## 3592        1.346375e-02  1.424242e-02         -0.2    0
## 3593        9.633416e-02  2.375182e-01          0.2    1
## 3594       -2.030167e-02  1.005352e-01          0.0    1
## 3595        4.929267e-02  1.733860e-01          0.3    1
## 3596       -6.783884e-03 -3.534610e-02          0.0    1
## 3597       -3.385760e-02 -8.070501e-02         -0.2    1
## 3598        1.153065e-01  3.979217e-01          0.6    1
## 3599        2.314685e-02  1.368132e-01          0.2    1
## 3600       -4.789379e-02 -4.605598e-02         -0.1    0
## 3601       -2.654661e-02 -6.778309e-02          0.1    0
## 3602        2.716369e-02 -9.264898e-02         -0.3    1
## 3603        2.077819e-02  2.190083e-02          0.2    0
## 3604        4.048717e-03 -1.853802e-02         -0.4    0
## 3605        3.819544e-02  4.619565e-02          0.0    1
## 3606        8.974328e-02  2.013610e-01          0.0    1
## 3607       -5.762530e-02  3.654685e-02          0.3    1
## 3608       -6.346777e-02 -7.996406e-02          0.0    1
## 3609       -1.174416e-02  9.291678e-02          0.2    0
## 3610        3.935701e-02  3.473577e-01          0.4    1
## 3611        6.732477e-02  3.660303e-01          0.6    1
## 3612        1.043235e-01  1.833031e-01          0.3    1
## 3613       -3.714104e-02 -1.624147e-01         -0.2    0
## 3614       -1.408988e-02 -1.729089e-01         -0.2    1
## 3615        7.251895e-02  2.000000e-01          0.3    1
## 3616       -1.276669e-02 -8.496732e-02          0.0    1
## 3617        5.296853e-04 -6.291560e-02          0.1    0
## 3618       -2.358451e-02 -1.003344e-02         -0.1    0
## 3619        4.018596e-02  1.208172e-01          0.2    1
## 3620       -3.367273e-03 -8.101559e-02          0.0    1
## 3621        4.502001e-02  1.928541e-01          0.0    1
## 3622        2.844566e-02 -2.093333e-01         -0.4    0
## 3623        3.469616e-02  2.707402e-02         -0.2    1
## 3624        8.895381e-03  6.691979e-02         -0.2    1
## 3625       -1.351300e-02 -1.053345e-01         -0.1    0
## 3626       -1.550448e-02 -2.806373e-02          0.0    1
## 3627        2.135675e-02  2.168022e-01          0.4    1
## 3628       -6.769471e-03  2.923977e-02          0.2    1
## 3629        5.833387e-04 -1.190113e-02          0.0    1
## 3630       -4.879892e-03 -9.738765e-02          0.2    0
## 3631       -4.114702e-02 -2.923481e-01         -0.2    0
## 3632       -6.842441e-03  5.229420e-02         -0.1    0
## 3633       -2.748636e-02 -2.334239e-01         -0.4    0
## 3634       -4.226349e-02 -2.702338e-01         -0.2    0
## 3635       -7.564581e-02 -3.020833e-01         -0.1    1
## 3636        8.734925e-02  5.090595e-02          0.2    1
## 3637       -1.453925e-02  7.938675e-02          0.3    1
## 3638        1.133622e-02  1.083333e-01         -0.1    0
## 3639       -7.732294e-02 -4.298246e-01         -0.6    0
## 3640        6.943339e-02  8.214286e-02         -0.2    1
## 3641       -3.021738e-02 -2.673797e-03          0.0    0
## 3642        2.083915e-02 -2.075472e-02          0.0    1
## 3643        4.601603e-02  3.272358e-01          0.3    1
## 3644        2.545456e-02  1.264368e-01          0.3    0
```

```
## 3645        -6.053959e-02 -1.607765e-01         -0.2   0
## 3646         1.662015e-02  6.823529e-02          0.1   0
## 3647        -2.731536e-02 -5.767351e-02          0.2   1
## 3648         8.933994e-03  5.980861e-02          0.3   1
## 3649         2.348592e-02  6.261330e-02          0.2   1
## 3650        -2.976916e-02 -1.688476e-02          0.1   0
## 3651        -4.479990e-02 -3.575499e-01         -0.1   0
## 3652         6.237859e-02  2.187500e-01          0.1   0
## 3653         9.592685e-02  2.706117e-01          0.5   1
## 3654         6.132564e-03  8.974359e-02          0.1   1
## 3655        -1.453211e-01 -6.244939e-01         -0.4   0
## 3656         5.004069e-02  1.380471e-01          0.2   1
## 3657        -7.169168e-02  7.885305e-02         -0.1   1
## 3658        -1.062339e-02  2.308634e-01          0.4   1
## 3659         1.597140e-03  2.473118e-01          0.1   1
## 3660        -8.689341e-02 -3.042017e-01         -0.2   1
## 3661        -1.296439e-01 -4.145299e-01         -0.4   0
## 3662         9.182623e-02  1.660377e-01          0.0   1
## 3663        -1.755537e-03  9.803922e-03         -0.2   0
## 3664        -7.229097e-02 -4.072770e-01         -0.6   0
## 3665         9.489782e-02  2.297552e-01          0.2   1
## 3666        -5.860640e-02 -2.415303e-01         -0.2   0
## 3667        -3.549259e-02  4.979145e-02         -0.3   0
## 3668         1.176971e-02  1.142759e-01          0.2   1
## 3669        -3.193168e-02  7.813652e-03          0.1   0
## 3670        -6.696179e-02 -2.663438e-01         -0.4   0
## 3671        -9.667169e-02 -3.300292e-01         -0.3   0
## 3672         5.000331e-02  1.562882e-01          0.0   0
## 3673        -3.148947e-02  5.910839e-03          0.0   0
## 3674        -1.799170e-02 -1.785714e-01         -0.2   1
## 3675         3.055543e-02  1.064103e-01          0.1   0
## 3676         5.630285e-03  7.381832e-02         -0.1   0
## 3677         1.646176e-02  8.586338e-02          0.1   1
## 3678         1.829185e-02  8.538012e-02          0.3   0
## 3679         2.579731e-02 -4.692982e-02         -0.1   1
## 3680         3.789974e-02  1.439646e-02          0.0   1
## 3681        -1.035041e-02 -3.287120e-02          0.1   0
## 3682         2.870793e-02  1.268170e-01          0.1   1
## 3683        -1.007308e-02  9.030303e-02          0.3   1
## 3684         8.654030e-02  1.365610e-01          0.3   0
## 3685        -3.112167e-03 -2.617359e-02         -0.3   0
## 3686        -5.861419e-02 -2.794118e-01         -0.2   0
## 3687        -1.073293e-01 -1.654084e-01         -0.3   1
## 3688         5.308601e-04  9.337068e-04         -0.1   1
## 3689         3.961824e-02 -3.186813e-02          0.1   1
## 3690        -5.189240e-02 -3.613054e-01         -0.3   1
## 3691        -3.247293e-02  4.511938e-02         -0.2   1
## 3692        -7.108283e-03  5.083089e-02          0.0   1
## 3693        -6.186153e-02 -1.852031e-01         -0.2   1
## 3694         7.289330e-02  4.772727e-01          0.5   1
## 3695         9.184837e-02  2.917604e-01          0.3   1
## 3696         2.738662e-02  5.559465e-02          0.1   0
## 3697        -5.395032e-03 -8.000000e-02         -0.1   0
## 3698        -4.901499e-02 -2.220566e-01         -0.1   0
## 3699        -3.410087e-02 -3.089740e-02         -0.1   1
## 3700        -1.371124e-02 -8.333333e-02          0.0   0
## 3701         1.642352e-02  1.404971e-02         -0.1   0
## 3702         3.654577e-02  1.121056e-01         -0.1   0
```

254

```
## 3703          -4.361143e-02 -4.981884e-02          -0.2   0
## 3704          -1.285612e-02 -1.906355e-01           0.0   1
## 3705           9.658338e-02  2.285285e-01           0.1   1
## 3706          -4.760774e-02 -1.867754e-01          -0.2   0
## 3707          -9.469571e-03 -7.056180e-02           0.1   1
## 3708           3.613429e-02  1.572244e-01          -0.2   1
## 3709          -6.787721e-02 -3.279490e-01          -0.3   0
## 3710          -4.450154e-02 -1.570962e-01           0.0   1
## 3711          -2.516506e-02 -1.294734e-01           0.0   0
## 3712           1.300212e-02 -4.283217e-02          -0.2   1
## 3713           7.843425e-03 -5.576923e-02           0.2   0
## 3714           3.326870e-02  1.912442e-01           0.0   0
## 3715          -7.036268e-03 -6.846936e-02           0.2   1
## 3716          -2.139917e-02 -1.162366e-01          -0.1   0
## 3717          -9.828362e-03 -2.760329e-02          -0.1   1
## 3718          -6.112055e-02 -1.503497e-01          -0.2   1
## 3719          -5.211649e-03  3.274927e-02           0.0   1
## 3720           7.035306e-02  3.072057e-01           0.3   1
## 3721          -6.713699e-03 -4.929881e-02           0.1   1
## 3722           1.005406e-01  6.738095e-01           0.6   1
## 3723           1.549194e-02 -1.381944e-01           0.1   1
## 3724           1.446846e-01  2.485966e-01           0.4   1
## 3725          -4.646395e-02 -2.507583e-01          -0.2   0
## 3726          -8.823081e-02 -2.645862e-01          -0.3   0
## 3727           4.258139e-02  1.551282e-01           0.2   1
## 3728          -3.712410e-02 -2.855615e-01          -0.3   1
## 3729          -4.311927e-02 -1.514539e-01           0.0   0
## 3730          -1.666492e-02 -1.794872e-01           0.0   0
## 3731          -5.503946e-04 -1.027198e-01           0.0   0
## 3732          -4.716048e-02  7.196563e-02          -0.2   1
## 3733           9.258743e-02  5.184837e-01           0.8   1
## 3734          -5.827244e-02 -3.951906e-01          -0.6   0
## 3735           3.194035e-02  2.036474e-01           0.0   0
## 3736           7.751307e-03 -1.059432e-02           0.0   1
## 3737          -1.016295e-03 -2.107746e-01          -0.3   0
## 3738          -1.081735e-02 -9.276108e-02           0.0   1
## 3739           2.054139e-02  1.000000e-01           0.2   0
## 3740           2.355904e-02  1.029202e-01          -0.2   1
## 3741          -8.931178e-02 -5.099790e-01          -0.5   0
## 3742           6.747176e-02  3.532764e-01           0.4   1
## 3743          -3.530186e-02  3.846154e-02           0.0   0
## 3744          -3.089225e-02 -1.509595e-01          -0.4   0
## 3745           5.724508e-02  1.478046e-01           0.1   0
## 3746          -4.966052e-02 -2.473684e-01          -0.2   0
## 3747          -9.243504e-03  1.730978e-01           0.1   1
## 3748           3.101800e-02  1.007326e-02           0.0   1
## 3749          -6.233646e-02 -2.178955e-01           0.1   1
## 3750           3.771823e-02  1.048834e-02          -0.2   1
## 3751          -9.284231e-03  1.960784e-02           0.1   0
## 3752          -5.184102e-03  1.072931e-01           0.4   0
## 3753           4.845414e-02  4.395604e-02           0.2   0
## 3754           8.558661e-02  3.019817e-01           0.3   1
## 3755          -5.333222e-02 -4.559205e-02           0.1   1
## 3756          -2.030597e-02 -1.570000e-01           0.1   1
## 3757           6.950027e-02 -6.390977e-02           0.1   1
## 3758          -8.357481e-02 -2.811618e-01          -0.4   0
## 3759           6.875208e-03  1.308316e-01           0.3   1
## 3760          -2.140361e-02 -3.254498e-02           0.0   0
```

```
## 3761        5.185004e-02  2.909434e-01           0.0   1
## 3762       -1.629476e-02  1.041667e-01           0.5   1
## 3763       -1.036854e-03 -2.469136e-03          -0.1   0
## 3764       -6.797744e-02 -2.310811e-01           0.0   0
## 3765       -6.620889e-03 -1.818182e-01           0.0   0
## 3766        6.789670e-02  2.832339e-01           0.0   0
## 3767        1.793300e-02  1.735931e-01           0.2   1
## 3768        3.207188e-02  1.531008e-01           0.3   0
## 3769       -4.629659e-02 -3.701987e-01          -0.4   0
## 3770        6.420150e-02  2.424242e-02           0.2   1
## 3771       -6.055553e-02 -1.098773e-01          -0.2   0
## 3772        8.727977e-02  1.787093e-01           0.3   0
## 3773       -6.131463e-02 -3.070175e-01          -0.2   0
## 3774       -2.421040e-02 -6.551363e-02          -0.2   0
## 3775       -7.762666e-02 -3.581699e-01          -0.5   0
## 3776       -5.150090e-02 -4.742706e-01          -0.4   0
## 3777       -4.222416e-02  5.683269e-02           0.3   0
## 3778       -3.669815e-02 -1.696306e-01          -0.1   1
## 3779        1.804103e-02  1.666667e-01           0.5   1
## 3780       -2.905170e-03  5.086136e-02          -0.1   0
## 3781       -3.219593e-02  4.793028e-02           0.0   1
## 3782        4.101297e-02  1.251546e-01           0.3   0
## 3783        8.957334e-02  3.274793e-01           0.5   1
## 3784        8.634001e-02  2.806670e-01           0.1   0
## 3785       -9.125260e-02 -2.609626e-01          -0.2   0
## 3786        1.911351e-02  2.484472e-02           0.1   1
## 3787       -9.998046e-02 -3.142857e-01          -0.4   0
## 3788        4.430042e-02  1.319142e-01           0.2   1
## 3789       -4.507319e-02 -7.886179e-02           0.2   1
## 3790       -1.159552e-01 -1.182065e-01          -0.1   0
## 3791        9.292119e-02  2.396135e-01           0.2   1
## 3792        6.034110e-02  7.061224e-02           0.3   1
## 3793        1.251611e-02  8.831413e-02          -0.2   1
## 3794        3.845876e-02  2.176997e-01          -0.2   1
## 3795       -6.930329e-02  5.408853e-02           0.1   0
## 3796        1.150246e-01  2.585586e-01           0.2   1
## 3797       -1.434361e-02  6.079027e-02           0.1   0
## 3798        5.996700e-02  4.081197e-01           0.1   1
## 3799        2.646383e-02  4.250207e-01           0.3   1
## 3800       -6.805333e-02 -7.333333e-02          -0.3   1
## 3801       -4.060339e-03  2.052744e-02           0.0   1
## 3802       -5.218595e-02 -2.176842e-01          -0.4   0
## 3803        5.990809e-03  2.635323e-01           0.6   1
## 3804       -4.771801e-02 -2.794024e-01          -0.2   1
## 3805       -2.464798e-02 -1.215521e-02           0.0   1
## 3806       -1.080751e-01 -3.127612e-01          -0.5   0
## 3807       -5.945065e-02 -1.561828e-01          -0.1   0
## 3808        6.479935e-02  3.040241e-01           0.3   1
## 3809       -1.126869e-02 -5.084746e-02           0.0   1
## 3810       -6.907122e-03 -2.891247e-01          -0.4   0
## 3811        5.652984e-03  1.466220e-01           0.1   1
## 3812       -8.455115e-03  2.477830e-03           0.1   0
## 3813       -3.576154e-02 -7.309322e-02           0.0   1
## 3814       -7.032450e-02 -4.135032e-01          -0.2   0
## 3815       -4.083092e-02 -2.985054e-01          -0.5   0
## 3816       -1.011809e-03 -1.147386e-01          -0.3   0
## 3817       -6.725980e-02 -3.539165e-01          -0.4   0
## 3818       -7.293833e-02 -1.644599e-01          -0.2   1
```

```
## 3819           2.895191e-02  1.271809e-01        0.0   1
## 3820           9.165491e-02  3.171392e-01        0.3   1
## 3821          -2.746471e-02 -3.608800e-02       -0.2   0
## 3822           3.290454e-02  2.880587e-01        0.1   1
## 3823          -8.265566e-03 -1.052350e-01        0.0   0
## 3824           5.841390e-02  2.401779e-01        0.3   1
## 3825           3.021418e-02  1.039046e-01        0.2   1
## 3826          -8.168203e-03 -1.596937e-01       -0.1   0
## 3827           6.743492e-03  7.792074e-02       -0.1   1
## 3828           1.779232e-02 -2.516892e-02        0.2   0
## 3829           2.636787e-02 -1.272016e-02        0.0   0
## 3830          -5.677306e-03  3.240741e-02        0.1   0
## 3831           9.179478e-02  3.846470e-01        0.3   1
## 3832          -3.247490e-02 -3.383459e-02       -0.4   0
## 3833           1.081307e-02  6.304910e-02        0.1   1
## 3834           4.763574e-02 -9.035307e-02       -0.3   0
## 3835          -6.813483e-02 -2.877778e-01        0.1   0
## 3836          -9.432665e-04 -7.124506e-02        0.2   0
## 3837           4.441812e-02  1.797052e-01        0.1   1
## 3838          -1.054246e-02 -2.027972e-01       -0.1   0
## 3839           8.955827e-03 -1.954178e-01       -0.2   0
## 3840           1.412520e-02  1.389571e-01        0.3   1
## 3841           5.908641e-02  1.473068e-01        0.1   1
## 3842           2.308731e-02 -1.181031e-01        0.0   1
## 3843           7.763808e-02  7.692308e-02        0.1   1
## 3844           2.006376e-02 -5.360597e-02       -0.1   0
## 3845          -1.363541e-02  8.484848e-02        0.1   1
## 3846           7.780106e-02  6.585366e-02       -0.1   0
## 3847          -1.240094e-01 -1.400591e-01       -0.2   0
## 3848          -5.639050e-03 -5.151515e-02        0.0   1
## 3849          -5.806002e-02 -3.115385e-01       -0.4   0
## 3850          -7.878058e-02 -2.054713e-01       -0.3   0
## 3851          -4.526951e-02 -1.125541e-01       -0.2   0
## 3852          -1.022306e-01 -2.302956e-01        0.0   0
## 3853          -4.856017e-02  3.571429e-02        0.4   1
## 3854           1.016426e-02  2.316006e-01        0.0   1
## 3855          -9.404086e-02 -3.060321e-01       -0.4   0
## 3856           6.771001e-03 -1.365287e-01       -0.3   0
## 3857          -2.140350e-03 -1.646465e-01        0.0   1
## 3858           4.268039e-02  9.557110e-02        0.2   1
## 3859           1.676819e-02  6.952701e-02       -0.2   0
## 3860          -3.853524e-03  2.862745e-02       -0.1   0
## 3861          -3.864718e-02 -2.709153e-01       -0.3   0
## 3862          -2.644112e-02  3.532311e-02        0.1   1
## 3863           7.380278e-02  5.303030e-02        0.0   1
## 3864           2.840510e-02  1.428945e-01        0.0   0
## 3865          -4.944694e-02 -3.385124e-01       -0.2   0
## 3866          -2.146910e-02 -1.002256e-01        0.1   0
## 3867          -7.233497e-02 -1.106719e-01       -0.1   1
## 3868           5.880004e-02  6.666667e-02       -0.1   0
## 3869           1.896781e-03 -1.785714e-01       -0.1   0
## 3870           7.767714e-02  2.706032e-01       -0.1   1
## 3871           5.021344e-03 -1.370370e-01        0.0   0
## 3872           1.018961e-01  1.087420e-01        0.2   1
## 3873          -4.836559e-02 -2.333977e-01       -0.2   0
## 3874           8.544666e-03 -3.645190e-02       -0.3   0
## 3875          -4.374754e-02 -1.438329e-01       -0.4   0
## 3876           7.696795e-03  4.729360e-02       -0.2   0
```

```
## 3877         5.078842e-02  2.116402e-02          0.1   1
## 3878         9.373796e-03  1.470588e-02         -0.1   1
## 3879         2.170105e-02  1.991870e-01          0.0   1
## 3880         7.008868e-03 -1.225490e-01          0.2   0
## 3881         2.356523e-02  9.259259e-02          0.0   1
## 3882        -1.080603e-02 -1.954527e-02          0.1   0
## 3883         1.005475e-02 -1.291209e-01         -0.1   1
## 3884        -3.569043e-02 -9.503546e-02         -0.1   0
## 3885         8.930823e-03 -1.416290e-01         -0.1   0
## 3886         1.210838e-02  1.579254e-01         -0.2   0
## 3887        -1.989680e-02 -1.052826e-01         -0.2   0
## 3888         1.305590e-02  1.054545e-01         -0.1   0
## 3889         6.930566e-02 -6.650182e-02          0.1   0
## 3890         4.332697e-02 -6.816901e-03          0.1   1
## 3891        -1.794392e-02 -1.299720e-01         -0.1   0
## 3892         1.681478e-02  4.644269e-02          0.3   1
## 3893        -8.018726e-04  1.093793e-02         -0.2   0
## 3894        -1.097446e-02 -1.758328e-01          0.2   0
## 3895         1.163484e-02  1.084656e-01          0.1   0
## 3896        -8.790871e-03 -1.446640e-01          0.0   0
## 3897         7.556022e-02  3.781349e-01          0.3   1
## 3898        -3.963464e-02  5.555556e-02          0.2   0
## 3899         5.443136e-02  2.706897e-01          0.6   1
## 3900         1.236996e-02  1.270677e-01          0.0   0
## 3901        -4.828637e-02 -4.672897e-03          0.2   1
## 3902        -1.159143e-02  5.661972e-02          0.3   0
## 3903        -3.991660e-02 -1.306341e-01         -0.4   1
## 3904        -4.778521e-02 -2.032020e-01         -0.1   1
## 3905         3.168100e-02  4.323308e-02          0.1   1
## 3906         3.491504e-02  1.215578e-01          0.0   0
## 3907        -8.232518e-03  8.285714e-02          0.1   1
## 3908         6.048623e-02  1.136838e-01          0.0   1
## 3909        -1.828611e-02 -1.008215e-01         -0.2   1
## 3910        -7.889983e-03  1.014035e-01          0.4   1
## 3911        -4.364266e-02 -1.503963e-01         -0.5   0
## 3912        -1.849556e-03  2.847222e-01          0.0   0
## 3913         1.113580e-01  3.343076e-01          0.2   1
## 3914         1.129072e-01  2.142857e-01         -0.1   1
## 3915        -3.867934e-02 -4.928018e-02         -0.2   0
## 3916        -7.392894e-03  1.324786e-01          0.4   1
## 3917         2.804545e-02  4.135338e-02         -0.1   1
## 3918         1.513119e-02  1.262255e-01          0.1   0
## 3919         6.820855e-02  1.759760e-01          0.1   0
## 3920         6.792754e-02  3.332042e-01          0.3   0
## 3921        -3.738797e-02 -1.125229e-01          0.0   1
## 3922        -1.500742e-02  3.496503e-03          0.2   1
## 3923         2.634205e-02  1.993623e-01          0.4   1
## 3924         3.498032e-02  3.303167e-01          0.1   1
## 3925        -4.497604e-02 -9.523810e-02         -0.1   0
## 3926        -2.099174e-02 -2.022283e-01         -0.3   0
## 3927        -1.024263e-02 -9.686610e-02          0.0   0
## 3928        -2.347261e-02  1.284652e-02         -0.1   1
## 3929        -2.203905e-02 -7.954125e-03          0.3   1
## 3930        -6.483206e-03 -2.489824e-01         -0.3   0
## 3931        -1.081326e-01 -2.122365e-01         -0.2   0
## 3932         1.112524e-01  4.593007e-01          0.7   1
## 3933        -4.702368e-02 -6.093070e-02          0.1   0
## 3934         1.708397e-02  3.373494e-02          0.1   0
```

```
## 3935          -5.945692e-02  3.308271e-02          0.4    1
## 3936          -2.355880e-02  4.547726e-02          0.1    0
## 3937           2.835896e-02  7.692308e-02          0.3    1
## 3938          -3.513418e-02 -5.846154e-02          0.2    1
## 3939          -3.664559e-02 -1.512715e-01          0.1    0
## 3940           6.597939e-04  1.652441e-01         -0.2    1
## 3941           3.456300e-02  9.128941e-02          0.2    1
## 3942          -6.607511e-03 -1.103060e-01         -0.1    0
## 3943           4.389154e-02  7.270115e-02          0.0    1
## 3944           3.594201e-03  9.025033e-02          0.1    1
## 3945           2.219780e-02  2.801527e-01          0.3    1
## 3946          -6.221386e-02 -1.922095e-01          0.1    0
## 3947           1.110468e-01  5.200000e-01          0.6    1
## 3948           1.550543e-02  8.095533e-02          0.1    1
## 3949          -3.296629e-02 -2.123500e-01         -0.1    1
## 3950           3.631021e-02  1.121867e-01          0.2    0
## 3951           3.057658e-02  5.208333e-02          0.2    1
## 3952          -2.159314e-02  1.235225e-01         -0.2    1
## 3953           4.954794e-02  1.310185e-01          0.2    1
## 3954          -8.518587e-02 -2.664800e-01          0.0    1
## 3955          -7.228435e-02 -3.027356e-01         -0.2    1
## 3956          -9.060059e-02 -3.220795e-01         -0.1    0
## 3957           9.090465e-02  2.198263e-01          0.3    1
## 3958           5.351856e-02  2.289628e-01          0.3    1
## 3959          -4.226447e-02 -9.560849e-02         -0.3    1
## 3960           4.400944e-04  9.205457e-02          0.1    0
## 3961           6.598290e-02  1.362768e-01         -0.1    0
## 3962          -4.860387e-02 -1.403509e-01          0.0    0
## 3963           6.913721e-02  1.706250e-01          0.2    1
## 3964          -1.002771e-01 -2.517007e-01         -0.2    0
## 3965           7.443343e-02  2.125392e-01          0.4    1
## 3966           9.719883e-02  2.744165e-01          0.4    1
## 3967           9.423405e-03 -2.179328e-02          0.1    0
## 3968          -3.022250e-02 -9.817814e-02         -0.1    0
## 3969          -2.477089e-02 -5.407925e-02         -0.1    0
## 3970          -1.482056e-02 -1.302521e-01         -0.4    0
## 3971           1.053942e-02  1.875000e-01          0.3    0
## 3972          -1.729819e-02  5.272109e-02         -0.1    1
## 3973          -2.749529e-02 -4.464286e-03         -0.1    0
## 3974          -6.824207e-02 -1.948198e-01         -0.1    1
## 3975          -7.795313e-03 -1.193992e-01          0.3    0
## 3976           7.117280e-04 -1.219359e-01          0.0    1
## 3977           3.274071e-03  2.254963e-01          0.1    1
## 3978          -2.458213e-03 -1.428571e-02          0.3    0
## 3979           6.234914e-02  3.681943e-01          0.6    1
## 3980          -4.096251e-02 -1.442006e-01         -0.4    0
## 3981          -9.395199e-02 -2.709232e-01         -0.1    0
## 3982           5.057899e-02  1.153846e-01          0.3    0
## 3983          -3.469085e-02 -1.760563e-01         -0.2    0
## 3984           6.201843e-02  1.767677e-01          0.1    1
## 3985           7.116868e-02  1.257764e-01         -0.1    1
## 3986          -5.214463e-02 -1.849057e-01         -0.3    0
## 3987           4.481382e-02  1.731183e-01          0.3    0
## 3988           5.340418e-02  1.761905e-01          0.2    1
## 3989          -3.779319e-02 -2.585190e-01         -0.2    0
## 3990          -2.134141e-02 -1.287665e-01         -0.1    1
## 3991           5.620832e-02  3.108974e-01          0.5    1
## 3992          -5.888442e-02  1.380729e-02          0.0    0
```

```
## 3993          4.166363e-02  1.632850e-01          -0.1   1
## 3994          1.055541e-02  2.201514e-01           0.0   1
## 3995          3.905302e-02  1.126543e-01          -0.2   0
## 3996          5.390366e-02  1.296703e-01           0.7   1
## 3997         -3.789659e-02 -2.516129e-01          -0.2   0
## 3998          3.844875e-03 -5.102041e-02          -0.3   1
## 3999          3.782890e-02  5.647841e-02           0.2   1
## 4000         -6.311902e-02 -1.333333e-02          -0.1   0
## 4001          6.956010e-02  1.000000e-01           0.0   1
## 4002         -6.444031e-02 -1.691380e-01          -0.3   0
## 4003         -5.195485e-02 -3.826169e-02           0.2   0
## 4004         -4.308188e-02 -2.058515e-01          -0.5   0
## 4005         -7.428178e-02 -2.874377e-01          -0.6   0
## 4006         -7.567279e-02 -2.401316e-01          -0.3   1
## 4007          8.012636e-02  3.416896e-01           0.2   1
## 4008         -9.299830e-02 -1.533333e-01          -0.4   0
## 4009         -4.171693e-02 -1.136364e-01           0.1   0
## 4010         -1.653802e-02 -6.710853e-02           0.0   0
## 4011          2.675840e-02  1.250000e-01          -0.1   0
## 4012          2.257987e-02 -2.897103e-02          -0.4   1
## 4013         -4.302525e-02 -1.414080e-01          -0.1   0
## 4014          1.687723e-02  9.177051e-02          -0.1   1
## 4015         -1.856781e-02  1.196997e-02          -0.2   1
## 4016          5.802653e-02  3.212121e-01           0.2   1
## 4017          5.887193e-02  3.510588e-01           0.3   1
## 4018         -1.688928e-02  2.017435e-02           0.1   1
## 4019         -3.684396e-02  9.633230e-02           0.3   1
## 4020         -2.366630e-02 -7.983871e-02          -0.1   0
## 4021         -8.002204e-02 -1.907308e-01          -0.6   0
## 4022          1.789032e-02  1.897059e-01          -0.1   0
## 4023         -8.507222e-03 -5.575035e-02          -0.3   0
## 4024          3.847258e-02  8.049451e-02           0.0   0
## 4025         -9.120733e-03 -1.189750e-01          -0.2   0
## 4026          1.784575e-02 -2.507662e-02           0.0   1
## 4027          1.139995e-02  2.021828e-01           0.4   1
## 4028          3.289829e-03  2.204586e-02          -0.1   1
## 4029          6.047843e-02  4.469697e-02           0.3   0
## 4030         -3.004940e-02 -2.112473e-01           0.1   0
## 4031          3.639556e-03  9.711828e-02           0.3   0
## 4032         -3.448163e-02 -2.127660e-02           0.0   1
## 4033          4.755368e-02  1.036036e-01          -0.1   1
## 4034          2.209275e-02  1.997924e-01           0.2   1
## 4035          1.117114e-01  2.107705e-01           0.3   1
## 4036         -4.015619e-02 -2.248062e-01          -0.3   0
## 4037          5.874441e-02  3.456790e-02          -0.1   1
## 4038          3.034781e-02  7.331081e-02           0.1   1
## 4039         -6.917052e-03 -4.767290e-02           0.0   0
## 4040         -1.194284e-02 -8.159886e-03          -0.3   0
## 4041         -4.916513e-02 -1.880805e-01          -0.4   0
## 4042         -5.953226e-04 -9.292252e-02           0.0   0
## 4043          6.615925e-02  6.830601e-02           0.3   0
## 4044          1.360002e-01  5.311475e-01           0.6   1
## 4045          1.245302e-01  4.707483e-01           0.5   1
## 4046          1.733107e-02  8.169935e-02           0.0   0
## 4047         -6.184670e-02  6.557823e-02          -0.2   1
## 4048          5.686386e-02  3.349593e-01           0.4   0
## 4049          1.049332e-01  2.514475e-01           0.0   0
## 4050         -1.371810e-02  6.031746e-02           0.1   1
```

```
## 4051          -7.849189e-02 -2.698413e-01          -0.6   0
## 4052          -2.497887e-02 -1.185536e-01           0.2   1
## 4053           7.787598e-02  2.130435e-01           0.1   1
## 4054          -3.650026e-02 -3.518519e-01          -0.3   0
## 4055          -1.621100e-03  5.882353e-03          -0.1   0
## 4056          -2.892438e-03 -2.067443e-01          -0.3   1
## 4057          -1.185471e-02 -1.992308e-01          -0.3   1
## 4058          -2.381203e-02  1.590366e-02           0.2   0
## 4059          -1.143081e-02  6.428571e-02           0.2   1
## 4060           1.712339e-02  3.232323e-02          -0.2   0
## 4061          -3.613988e-02 -2.331478e-01          -0.4   0
## 4062          -3.035846e-03 -1.611111e-01          -0.3   1
## 4063           4.884870e-02  1.939562e-01           0.2   1
## 4064          -1.034653e-02 -8.525793e-03          -0.3   0
## 4065          -1.530003e-01 -3.597613e-01          -0.3   1
## 4066           5.857949e-02  2.234848e-01           0.5   1
## 4067          -5.447119e-02 -8.899457e-02           0.4   0
## 4068           1.347326e-02  1.623932e-01           0.1   0
## 4069           1.690215e-02 -2.454277e-02          -0.4   0
## 4070           3.449063e-02  9.746589e-02           0.0   0
## 4071           4.034871e-02  1.346109e-01           0.2   1
## 4072           8.050441e-02  2.279982e-01           0.0   1
## 4073          -5.874881e-02 -1.537500e-01          -0.2   0
## 4074          -6.760608e-02 -3.824153e-01          -0.2   0
## 4075           1.387350e-02 -2.222222e-01          -0.1   0
## 4076          -1.921260e-02 -1.606838e-02           0.2   1
## 4077          -2.493450e-02 -1.165312e-01          -0.1   0
## 4078           1.075136e-01  3.615819e-01           0.6   1
## 4079           3.685721e-02  1.491326e-01           0.0   0
## 4080          -5.395348e-02 -3.037496e-01          -0.3   0
## 4081           6.768388e-02  3.386028e-01           0.4   1
## 4082          -1.068771e-01 -2.341463e-01          -0.3   0
## 4083           4.639743e-02  4.153109e-01           0.7   1
## 4084          -5.556242e-02 -1.466165e-01          -0.2   1
## 4085           3.707272e-02  1.875000e-01           0.4   1
## 4086          -1.113837e-01 -2.887139e-01          -0.3   0
## 4087          -2.247493e-02  1.743341e-02           0.4   1
## 4088          -8.052236e-02 -2.494978e-01           0.1   0
## 4089           4.683747e-02  4.325980e-01           0.6   1
## 4090           1.181110e-02 -1.428571e-02          -0.1   1
## 4091           4.515333e-02  6.144781e-02           0.3   1
## 4092           6.244818e-02  2.290185e-01           0.1   1
## 4093          -4.132367e-02 -2.231121e-01          -0.2   0
## 4094           5.153726e-02  3.351548e-01           0.2   0
## 4095           8.604872e-02  4.095238e-01           0.6   1
## 4096          -1.798291e-02  1.144293e-01           0.1   0
## 4097           5.417029e-02  1.612903e-02          -0.4   1
## 4098           8.751614e-02  4.531250e-01           0.5   1
## 4099          -3.069569e-02 -8.325391e-02           0.0   0
## 4100           2.975913e-02  7.635128e-02           0.2   1
## 4101          -3.804585e-02 -7.036035e-02           0.4   1
## 4102           7.110130e-02  3.240036e-01           0.5   1
## 4103           1.964838e-02  8.333333e-02           0.2   0
## 4104          -5.075674e-02 -2.718468e-01          -0.3   0
## 4105           8.072816e-02  2.993387e-01           0.5   1
## 4106          -7.624685e-02 -1.264585e-01           0.0   0
## 4107          -5.280769e-03 -2.474832e-01          -0.3   0
## 4108          -2.035315e-02 -7.232704e-03           0.2   0
```

```
## 4109      -2.930854e-02 -1.674900e-01        0.2    1
## 4110      -2.798496e-02  8.362318e-02        0.0    1
## 4111       2.963682e-02  2.164251e-01        0.1    1
## 4112       8.478301e-02  2.581187e-01       -0.1    0
## 4113       4.532678e-03  3.575011e-02        0.1    1
## 4114       2.273221e-02  4.501354e-02        0.3    0
## 4115       4.680748e-02  1.737705e-01        0.2    0
## 4116      -7.323380e-02 -2.020060e-01       -0.1    0
## 4117      -4.580583e-02 -2.729656e-01       -0.4    0
## 4118      -1.670282e-02 -8.545455e-02        0.0    1
## 4119       8.140451e-03  8.347826e-02        0.1    0
## 4120       9.850806e-03  3.500522e-02        0.2    0
## 4121      -3.230820e-02 -1.354839e-01       -0.1    1
## 4122       3.080037e-02  8.914729e-02        0.0    1
## 4123       2.396165e-02  1.381180e-01        0.3    1
## 4124       1.084966e-01  2.252252e-01        0.2    1
## 4125      -5.251334e-02 -4.302800e-02        0.0    0
## 4126      -6.478181e-03 -3.319920e-02       -0.1    1
## 4127      -1.701419e-02 -3.154198e-01       -0.3    0
## 4128       4.089214e-02 -1.083424e-02       -0.1    0
## 4129       3.605651e-02  3.346228e-01        0.4    1
## 4130      -7.991437e-02 -2.637771e-01       -0.2    0
## 4131       1.104916e-01  1.068847e-01        0.1    0
## 4132      -1.098083e-02  9.646402e-02        0.2    0
## 4133       4.988305e-02  2.910714e-01        0.4    1
## 4134       5.616223e-02  8.928571e-02        0.1    1
## 4135      -7.363170e-02 -1.809257e-01       -0.1    0
## 4136      -4.229231e-02 -1.078629e-01       -0.3    0
## 4137      -2.453263e-02 -4.793233e-02        0.0    0
## 4138      -3.167668e-03  1.053502e-01        0.0    0
## 4139       1.554796e-02  5.308776e-02        0.1    1
## 4140       4.680318e-02  2.922078e-02        0.0    1
## 4141      -2.299254e-02  1.784197e-01        0.2    1
## 4142       3.429815e-02  2.811432e-01        0.2    1
## 4143       7.592611e-03  1.420765e-01        0.2    1
## 4144      -1.816522e-02  3.508772e-03       -0.1    0
## 4145      -1.004095e-02 -5.043860e-03       -0.4    0
## 4146       1.002572e-02  2.182224e-01        0.3    1
## 4147       6.331406e-02 -1.351351e-02       -0.4    1
## 4148       1.742768e-02  1.224834e-01       -0.1    1
## 4149       8.704229e-03 -2.122016e-02       -0.4    0
## 4150      -7.262376e-03  8.178212e-02        0.0    0
## 4151      -5.007476e-02  3.538462e-02        0.1    0
## 4152      -7.115029e-02 -5.342163e-01       -0.5    0
## 4153      -5.568642e-02 -1.334155e-01       -0.1    1
## 4154      -4.889633e-02 -1.974206e-01        0.1    1
## 4155      -1.163424e-03  1.041667e-01        0.4    1
## 4156      -1.657415e-02  5.004170e-02        0.2    0
## 4157       1.135869e-01  2.832930e-01        0.0    1
## 4158       6.653393e-02  2.428571e-01        0.5    1
## 4159       4.965475e-02  2.901391e-01        0.3    0
## 4160      -1.821461e-02 -1.535742e-01        0.1    1
## 4161       2.267937e-02  2.831197e-01        0.3    1
## 4162       1.503638e-02  1.414474e-01       -0.1    1
## 4163       1.272908e-01  2.314119e-01        0.2    1
## 4164       2.855353e-02 -1.361212e-01       -0.1    0
## 4165      -6.180653e-03 -7.670455e-02       -0.2    1
## 4166       6.030680e-02  2.049410e-01       -0.1    1
```

```
## 4167          4.212566e-02  3.510843e-01          0.4   1
## 4168          2.474513e-02 -6.842105e-02          0.1   1
## 4169          4.422679e-02  2.233569e-01          0.0   1
## 4170         -1.108141e-01 -3.878061e-01         -0.3   0
## 4171         -3.810051e-02 -2.462963e-01         -0.4   0
## 4172         -1.455984e-02 -6.998848e-02         -0.2   1
## 4173          1.066672e-01  1.732719e-01          0.1   1
## 4174          1.149885e-01  3.808976e-01          0.5   1
## 4175         -1.878522e-02 -1.742268e-01         -0.1   0
## 4176          5.881141e-03 -5.651815e-02         -0.2   0
## 4177          2.895138e-02 -3.598041e-02          0.0   0
## 4178         -2.253941e-02  1.201550e-01          0.3   1
## 4179         -2.462285e-02  1.059554e-02          0.1   1
## 4180         -4.016664e-02 -3.658537e-02          0.1   0
## 4181          2.161028e-02 -6.171617e-02          0.0   0
## 4182          5.426893e-02  4.596950e-01          0.4   1
## 4183          1.274521e-02 -3.059211e-01         -0.1   0
## 4184         -2.669678e-02  2.602041e-02         -0.2   1
## 4185         -4.235326e-02 -1.687898e-01         -0.2   0
## 4186         -2.057502e-02 -1.229896e-02          0.3   1
## 4187          4.195780e-04 -6.896552e-02          0.1   1
## 4188         -2.780061e-02 -7.840825e-02         -0.2   1
## 4189          8.715643e-02  5.597709e-02          0.1   1
## 4190         -5.256596e-02 -2.093664e-01          0.1   1
## 4191          3.357181e-02  3.007570e-01          0.3   0
## 4192         -4.319088e-02 -1.090067e-01         -0.2   0
## 4193          9.052143e-03  1.745062e-01          0.1   1
## 4194         -4.481958e-02 -1.558983e-01         -0.2   0
## 4195          3.468503e-02 -5.641026e-02          0.0   0
## 4196          5.009734e-03  2.802274e-02          0.1   0
## 4197          8.865078e-02  3.527607e-01          0.3   1
## 4198          8.586774e-02  3.877996e-01          0.3   1
## 4199         -2.687725e-02 -3.306129e-02          0.0   1
## 4200          9.188530e-03  1.455289e-01         -0.2   1
## 4201         -7.276418e-02 -1.406250e-01         -0.1   0
## 4202         -5.071742e-02 -2.649375e-01         -0.2   0
## 4203          8.952519e-02  3.065265e-01          0.5   1
## 4204          4.734537e-02  2.100115e-02          0.0   0
## 4205          6.326632e-02  3.096585e-01          0.3   1
## 4206          6.182323e-03  1.971739e-01          0.1   1
## 4207          7.809010e-02  5.366726e-02          0.2   1
## 4208          3.085291e-02  9.406487e-02          0.1   1
## 4209         -6.640354e-02 -1.670455e-01         -0.2   0
## 4210          3.034206e-02 -2.248139e-01         -0.1   1
## 4211         -1.791910e-02  1.591551e-02         -0.1   0
## 4212          1.418030e-02  1.916358e-01          0.2   1
## 4213         -1.042975e-03 -1.796703e-01         -0.2   0
## 4214          4.768124e-03  2.197901e-01          0.2   1
## 4215         -5.542333e-03  2.298851e-02          0.0   1
## 4216         -1.868270e-02 -1.185714e-01         -0.2   0
## 4217          1.074362e-01  9.759735e-02          0.0   1
## 4218          1.019116e-02  2.551282e-01          0.0   1
## 4219          5.923807e-02  3.296703e-02          0.1   1
## 4220          2.935997e-03 -3.696573e-02         -0.2   0
## 4221          4.643431e-03  1.526480e-02         -0.4   0
## 4222          7.168812e-02 -5.250305e-02         -0.1   1
## 4223         -5.115153e-03 -8.845029e-02          0.0   1
## 4224          1.542172e-02  1.770833e-01         -0.1   0
```

263

```
## 4225      2.081596e-02  1.858679e-01        0.5   0
## 4226      3.328775e-02  7.098675e-02       -0.1   1
## 4227      6.263267e-03  1.847826e-01        0.4   0
## 4228      8.636547e-03  1.110390e-01        0.0   0
## 4229      2.987003e-02 -1.416122e-02       -0.1   1
## 4230     -1.913474e-02 -1.309524e-01       -0.1   1
## 4231      3.728211e-02  1.951414e-01        0.2   1
## 4232      4.836461e-02  1.111111e-01       -0.3   1
## 4233     -6.169186e-03  5.576923e-02        0.2   0
## 4234      4.075207e-02  6.313131e-02        0.2   0
## 4235      1.740573e-02  1.375350e-01       -0.2   1
## 4236      5.317008e-02  1.297641e-01        0.0   0
## 4237     -3.185971e-02 -1.101149e-01       -0.1   0
## 4238     -1.368261e-02  5.792140e-02        0.2   1
## 4239      3.130470e-02  6.896552e-02        0.3   1
## 4240     -6.838798e-02 -2.870748e-01       -0.3   1
## 4241      2.644592e-02 -4.218362e-02        0.1   1
## 4242      3.678420e-02  1.988574e-02        0.0   1
## 4243     -3.201655e-02 -2.980087e-01       -0.2   0
## 4244      1.664106e-02  7.037037e-02       -0.1   1
## 4245      1.124237e-01  2.453059e-01        0.1   1
## 4246      4.913197e-02  9.901961e-02       -0.1   0
## 4247     -2.088941e-02  2.084860e-01        0.3   1
## 4248      7.542461e-02  2.856615e-01        0.4   1
## 4249      2.207655e-02 -7.164557e-02        0.0   0
## 4250     -4.481385e-02 -2.678571e-01       -0.3   0
## 4251     -1.000723e-01 -3.988405e-01       -0.3   0
## 4252      2.482095e-02  2.083333e-01        0.2   1
## 4253      3.993881e-03 -1.656177e-01       -0.1   0
## 4254     -9.311462e-03 -3.137973e-01       -0.4   0
## 4255     -2.647245e-02 -6.875000e-02       -0.1   0
## 4256     -6.281775e-02 -3.125000e-01       -0.5   0
## 4257     -1.774400e-02  3.702366e-03       -0.2   0
## 4258     -5.497210e-02 -3.808323e-01       -0.2   0
## 4259     -4.903316e-02 -2.549020e-01       -0.2   0
## 4260      1.561537e-02 -1.073579e-01        0.0   1
## 4261     -6.133845e-02 -2.063492e-01       -0.1   0
## 4262     -3.484641e-02  6.460622e-02        0.1   0
## 4263     -1.597211e-02 -1.399452e-01       -0.4   0
## 4264     -9.155430e-02 -2.668129e-01       -0.4   0
## 4265     -6.902416e-02 -3.622314e-01       -0.2   0
## 4266      4.108184e-02  2.138112e-01        0.2   1
## 4267      7.892468e-02  1.917052e-01        0.1   1
## 4268     -1.824485e-02 -8.333333e-02        0.1   0
## 4269      8.219003e-02  8.939394e-02        0.1   1
## 4270     -2.292801e-02  6.388527e-02       -0.1   1
## 4271      1.318288e-02  2.370811e-01        0.1   0
## 4272      3.071200e-03  1.033163e-01        0.0   1
## 4273      7.550218e-02  3.502994e-01        0.2   1
## 4274      4.111439e-02  2.927126e-01        0.3   1
## 4275     -4.411846e-02 -1.712740e-01        0.1   0
## 4276      2.601106e-02  1.020337e-01        0.2   1
## 4277     -3.440292e-02 -2.246763e-01       -0.3   0
## 4278      6.013358e-03  1.316804e-01        0.5   0
## 4279     -3.258171e-02 -1.204303e-01        0.0   1
## 4280     -2.266508e-02 -4.307023e-02        0.0   0
## 4281      2.734018e-03 -1.296534e-01        0.2   0
## 4282     -6.504258e-02 -2.673364e-01       -0.2   1
```

264

```
## 4283        -3.118089e-02 -7.790503e-02           -0.1    0
## 4284         1.520639e-02  7.002801e-03            0.2    0
## 4285         2.469234e-02  9.998878e-02            0.0    1
## 4286         6.174503e-02  4.661654e-02            0.4    0
## 4287         8.879628e-03  2.630538e-01            0.3    1
## 4288        -6.296503e-02 -3.057359e-01           -0.3    0
## 4289         1.355230e-02  2.314297e-01            0.2    1
## 4290         2.004340e-02 -2.865275e-02           -0.1    0
## 4291        -9.570576e-02 -1.290440e-01            0.1    1
## 4292         1.515825e-02  2.070888e-02           -0.2    1
## 4293        -4.141509e-02 -1.796157e-01           -0.2    0
## 4294         3.661261e-02  1.900235e-01            0.1    1
## 4295        -3.856284e-02 -1.002554e-01           -0.2    0
## 4296         8.920962e-02  3.020710e-01            0.2    1
## 4297        -5.845698e-03 -9.599470e-02            0.1    0
## 4298        -6.573863e-02 -1.082807e-01            0.1    1
## 4299        -4.155101e-03  1.563511e-01            0.0    1
## 4300         1.683077e-02  1.470588e-01            0.1    1
## 4301        -5.654781e-02 -2.774457e-01           -0.1    0
## 4302         9.632092e-03  8.484300e-02            0.2    1
## 4303        -2.508918e-02 -6.989247e-02           -0.1    1
## 4304        -1.856082e-02  1.098901e-02            0.0    1
## 4305        -5.316492e-02 -1.374856e-01           -0.2    1
## 4306         5.646396e-02  1.528302e-01            0.4    1
## 4307         2.148691e-03 -9.576613e-02            0.3    1
## 4308         4.469985e-03 -8.076225e-02            0.3    1
## 4309        -2.348594e-02 -1.363636e-02            0.1    0
## 4310        -5.061558e-02 -9.355258e-02           -0.1    0
## 4311        -8.118340e-02 -7.652174e-02           -0.3    0
## 4312        -3.443342e-02 -1.654412e-02            0.1    1
## 4313        -6.286595e-02  3.030303e-02            0.3    0
## 4314        -3.245921e-02 -3.000000e-01           -0.2    1
## 4315        -9.144406e-03 -1.218638e-01            0.1    1
## 4316        -1.200649e-01 -3.205479e-01           -0.3    1
## 4317        -7.853484e-02  1.153846e-01            0.2    0
## 4318        -6.669738e-03 -2.619414e-02           -0.1    0
## 4319         1.855749e-02  1.621204e-01            0.0    0
## 4320         8.533492e-02  3.242790e-01            0.1    0
## 4321        -2.638918e-02  1.033138e-02            0.2    1
## 4322         3.092773e-02  9.150327e-02            0.3    1
## 4323        -6.602484e-03 -2.470809e-02            0.1    1
## 4324        -3.483483e-02 -1.695402e-01           -0.2    0
## 4325        -4.678963e-03  1.451613e-01            0.1    1
## 4326         1.384140e-02  3.448276e-04            0.2    1
## 4327         2.013832e-02  1.533937e-01            0.4    1
## 4328        -3.483500e-02  2.033823e-02            0.2    1
## 4329         1.028700e-01  3.454545e-01            0.1    1
## 4330         4.243353e-02 -4.745370e-02           -0.1    0
## 4331         4.503460e-03  1.272727e-01            0.1    1
## 4332        -8.696159e-02 -2.390625e-01           -0.1    1
## 4333         8.435241e-02  2.452393e-01            0.3    1
## 4334        -4.439114e-03  3.062201e-02            0.2    1
## 4335        -2.465980e-02 -7.812500e-02           -0.3    1
## 4336        -1.099320e-02  5.476348e-02            0.0    0
## 4337         6.550341e-02 -2.564103e-02            0.2    0
## 4338        -6.311958e-02 -6.433184e-02            0.2    0
## 4339        -3.727399e-02 -4.105572e-02            0.0    1
## 4340        -1.010531e-01 -2.346084e-01           -0.2    0
```

```
## 4341          -9.987070e-03  2.658730e-02               0.0   1
## 4342           2.109538e-02  2.096587e-01               0.2   1
## 4343          -3.091550e-02 -1.324405e-01              -0.2   0
## 4344           3.796216e-02  9.421330e-02               0.4   1
## 4345           3.178150e-02  8.875129e-03               0.1   0
## 4346          -8.446929e-02 -5.299638e-02               0.0   1
## 4347          -2.124794e-02  3.034420e-02               0.0   1
## 4348           1.043615e-02 -2.655971e-02              -0.1   0
## 4349           2.437687e-02  9.021652e-03               0.0   1
## 4350           5.899858e-03 -1.600000e-01              -0.6   1
## 4351           9.459278e-02  1.173021e-01               0.2   0
## 4352           5.398534e-02  3.758290e-02               0.3   0
## 4353           2.345188e-02  4.883107e-02               0.2   1
## 4354           4.114397e-02  1.719465e-01               0.2   1
## 4355          -7.889660e-03  6.045126e-02              -0.2   1
## 4356          -1.604362e-02  9.261364e-02              -0.1   0
## 4357          -6.986197e-02 -3.216552e-01              -0.1   0
## 4358          -8.818307e-02 -1.444908e-01              -0.6   1
## 4359          -6.712798e-02 -2.250000e-01              -0.3   1
## 4360          -4.723861e-02 -2.001115e-01              -0.3   0
## 4361           3.440105e-02  4.669798e-02              -0.1   0
## 4362           5.221661e-02  1.684435e-01               0.2   1
## 4363          -1.802341e-02  3.215739e-02               0.2   0
## 4364          -5.609997e-02  2.683363e-02               0.1   1
## 4365          -1.282382e-02  1.070751e-01               0.3   1
## 4366          -4.705196e-02 -1.750385e-01               0.1   1
## 4367           1.121700e-02  5.304348e-02               0.1   0
## 4368          -5.388842e-02 -3.876117e-01              -0.4   0
## 4369           1.059585e-02  3.846154e-02               0.0   1
## 4370           5.645226e-02  4.311310e-02               0.0   1
## 4371          -3.828719e-02 -2.415798e-01              -0.3   1
## 4372          -3.127970e-02 -2.068466e-01              -0.2   0
## 4373           9.153088e-03  5.006068e-02               0.2   0
## 4374           7.774950e-03 -1.851441e-01              -0.2   0
## 4375          -3.033905e-02 -6.185356e-02              -0.1   0
## 4376           4.766102e-02  1.049808e-01               0.3   1
## 4377           4.888641e-02  1.803279e-01               0.1   1
## 4378           2.196798e-02  1.130788e-01               0.2   1
## 4379           2.533287e-02  1.007299e-01               0.1   1
## 4380          -4.424539e-02 -2.182612e-01              -0.3   0
## 4381          -6.694564e-02 -1.640805e-01               0.0   0
## 4382           3.231959e-02  3.968254e-02               0.1   1
## 4383          -7.461859e-02 -3.624219e-01              -0.4   0
## 4384          -3.788662e-02 -3.291809e-01              -0.4   0
## 4385          -6.535670e-03 -7.536908e-02              -0.2   1
## 4386          -3.122549e-02 -2.327450e-01              -0.1   0
## 4387          -8.100488e-02 -1.445011e-01               0.0   0
## 4388           3.907207e-02  3.150407e-02               0.0   0
## 4389           3.756830e-02  7.432712e-02               0.0   1
## 4390          -1.404201e-02 -9.574683e-03               0.0   1
## 4391          -1.071587e-01 -4.160547e-01              -0.3   0
## 4392           5.193614e-02  4.104128e-01               0.4   1
## 4393          -2.651848e-02  8.167598e-02               0.0   0
## 4394           5.279270e-02  1.082618e-01              -0.1   0
## 4395          -4.562434e-02 -1.915569e-01              -0.2   0
## 4396          -1.807259e-02  1.701956e-01               0.2   1
## 4397           7.018473e-02  2.563218e-01               0.1   1
## 4398           2.610865e-02 -1.635112e-02              -0.1   1
```

```
## 4399           1.875051e-02  8.227848e-02          0.3   1
## 4400           4.392737e-02  5.681818e-02         -0.2   0
## 4401           3.228908e-02  8.248848e-02         -0.2   0
## 4402          -7.319865e-02  9.610390e-02          0.3   0
## 4403           7.389354e-02  2.509913e-01          0.4   1
## 4404           6.280752e-03 -2.272593e-01         -0.1   1
## 4405           6.399740e-03 -1.399829e-01         -0.2   0
## 4406          -1.629880e-02 -7.863248e-02         -0.1   0
## 4407           3.124402e-02  6.153846e-02          0.1   0
## 4408           9.904356e-03  1.715460e-01          0.4   1
## 4409           7.588757e-04  8.928571e-03         -0.2   1
## 4410           1.013985e-02 -8.021390e-02          0.0   0
## 4411          -2.565084e-02  8.926233e-02          0.3   1
## 4412           1.112681e-02  3.982684e-02         -0.1   1
## 4413           6.789772e-03 -1.410256e-01         -0.1   0
## 4414           1.941562e-02  1.624023e-01          0.2   1
## 4415          -6.407361e-02 -1.220930e-01          0.0   0
## 4416          -5.862173e-04  2.580005e-01          0.1   0
## 4417           2.538925e-02  1.458860e-02         -0.2   0
## 4418           6.648603e-02  8.305085e-02          0.1   1
## 4419          -7.427801e-02 -1.571303e-01         -0.2   1
## 4420          -4.967681e-02  1.801802e-02         -0.3   0
## 4421           1.295434e-01  1.428571e-01          0.3   1
## 4422          -1.980915e-05 -1.071032e-01          0.1   1
## 4423           1.137084e-01  2.368839e-01          0.3   1
## 4424           2.745161e-02  1.714589e-01          0.2   1
## 4425          -1.050364e-02  3.611576e-02          0.2   1
## 4426          -2.196400e-03  2.222222e-02         -0.1   1
## 4427          -1.945286e-02  9.855335e-02          0.1   1
## 4428           5.331368e-02  7.502382e-02          0.1   0
## 4429          -8.389081e-02 -3.538223e-01         -0.3   0
## 4430          -3.946277e-03  2.467238e-01          0.4   1
## 4431          -6.056308e-02 -1.804087e-01         -0.2   0
## 4432          -2.793842e-02 -1.714584e-01         -0.2   0
## 4433           4.659129e-02  1.392650e-01          0.1   1
## 4434           4.371771e-02  9.166667e-02          0.1   1
## 4435          -2.483453e-02 -1.119048e-01         -0.3   0
## 4436           2.186643e-02  1.069411e-01         -0.1   1
## 4437          -1.050273e-01 -1.910588e-01          0.2   0
## 4438          -3.060175e-03 -1.008159e-01          0.0   0
## 4439           8.235048e-03 -1.694915e-02          0.1   0
## 4440          -4.685750e-02 -3.153153e-01         -0.1   0
## 4441           7.684737e-02  1.968116e-01          0.0   1
## 4442           9.200991e-04  3.750000e-02          0.2   1
## 4443          -3.636011e-02 -3.233233e-01         -0.3   0
## 4444           8.750171e-02  2.013134e-01          0.1   1
## 4445          -3.768307e-02  6.477709e-02          0.0   1
## 4446           1.071182e-02 -6.113790e-02          0.1   0
## 4447          -4.165948e-02 -5.609362e-02          0.0   0
## 4448          -4.820543e-02 -2.433594e-01         -0.3   0
## 4449          -4.153573e-02  1.077996e-02          0.0   0
## 4450          -4.164964e-02 -2.741757e-01          0.1   0
## 4451           3.264971e-02  2.336513e-01          0.3   1
## 4452           3.343333e-02  7.123109e-02          0.0   1
## 4453           2.084339e-03  2.145332e-01          0.2   1
## 4454           4.437312e-02 -1.176623e-01          0.0   1
## 4455          -5.390155e-02 -2.283908e-01         -0.3   0
## 4456          -4.167562e-02  1.003788e-01          0.0   1
```

```
## 4457        -3.145468e-02 -9.274953e-02            -0.3   0
## 4458         2.326928e-03 -4.329004e-03            -0.2   1
## 4459        -1.329925e-02  1.863354e-02             0.3   0
## 4460        -2.047577e-03 -1.575163e-01            -0.1   1
## 4461         1.489423e-02 -4.444444e-02             0.2   0
## 4462         5.174364e-02  1.761072e-01             0.2   1
## 4463        -8.959343e-03 -5.113636e-02             0.2   1
## 4464        -1.310226e-02  1.067308e-01             0.0   0
## 4465         3.524733e-02 -6.204710e-02             0.1   1
## 4466         2.620908e-02  1.571429e-01             0.3   1
## 4467         2.671794e-02  2.941176e-02             0.1   1
## 4468        -2.638716e-02  5.888889e-02             0.1   0
## 4469        -2.979749e-02 -1.567901e-01            -0.1   0
## 4470        -6.007521e-03 -1.252111e-01            -0.5   0
## 4471        -2.249425e-02 -1.709402e-03            -0.3   1
## 4472        -1.554828e-02 -1.024160e-01             0.0   0
## 4473        -1.355760e-02 -1.133333e-01            -0.1   1
## 4474         6.165093e-03  1.010989e-01             0.3   0
## 4475        -1.266626e-02 -1.851852e-02             0.3   0
## 4476         5.569009e-02  2.878848e-02            -0.3   1
## 4477         6.032012e-02  5.714286e-02             0.1   1
## 4478         3.024373e-02  7.840909e-02             0.3   1
## 4479         1.179954e-02 -4.869281e-02            -0.1   1
## 4480         1.539304e-03 -5.263158e-02            -0.1   1
## 4481         8.065231e-02  2.000000e-01             0.1   1
## 4482        -6.088656e-02 -1.569201e-01            -0.3   1
## 4483         7.471933e-02  7.454128e-02             0.0   1
## 4484        -2.881703e-02 -1.138889e-01            -0.2   0
## 4485         1.210401e-01  5.197568e-01             0.6   1
## 4486         4.195984e-02  2.588235e-01             0.2   0
## 4487         3.101504e-02  1.642857e-01             0.1   0
## 4488         2.129837e-02  2.129688e-01             0.0   1
## 4489        -5.169780e-03  2.521552e-01             0.3   1
## 4490        -3.956861e-02 -1.344538e-01             0.1   0
## 4491         2.438762e-02  3.728223e-01             0.4   1
## 4492        -2.490797e-02 -2.662849e-01             0.1   0
## 4493         1.811281e-02  1.256867e-01             0.1   0
## 4494         1.994248e-02  1.186773e-01             0.2   1
## 4495         1.433394e-02  6.428571e-02            -0.1   1
## 4496         4.671262e-02  1.505376e-01             0.3   1
## 4497        -4.650597e-03 -9.053773e-02            -0.3   0
## 4498         6.389428e-02  1.086957e-01             0.0   1
## 4499        -2.776838e-03 -4.782609e-02            -0.1   0
## 4500         1.363368e-03  2.283951e-02             0.0   0
## 4501         9.939130e-02  4.164835e-01             0.2   1
## 4502         3.699275e-02  9.232955e-02             0.0   1
## 4503        -2.330212e-02  1.889499e-01             0.1   1
## 4504        -6.888904e-02 -2.122519e-01            -0.2   0
## 4505        -1.435094e-04 -1.083744e-01             0.1   1
## 4506         2.556494e-02  9.692982e-02            -0.2   0
## 4507        -3.129421e-02 -1.914108e-01            -0.1   0
## 4508        -1.800204e-02 -6.796240e-03             0.4   0
## 4509        -2.974822e-02 -1.958128e-01            -0.2   0
## 4510        -7.786000e-02 -2.281698e-01             0.1   0
## 4511         6.377735e-02  2.402460e-02             0.0   0
## 4512        -3.878788e-02 -4.161567e-02             0.0   0
## 4513        -8.600680e-03  8.974359e-02             0.1   0
## 4514        -3.341935e-02 -7.558333e-02             0.0   0
```

```
## 4515          1.806991e-02  1.634367e-01          -0.2   1
## 4516         -1.230103e-02 -1.905497e-01          -0.1   1
## 4517         -3.827071e-02 -1.363636e-01           0.1   0
## 4518         -9.834649e-03  4.760312e-02           0.1   1
## 4519          2.405459e-02  7.093496e-02          -0.1   1
## 4520         -2.757133e-02 -1.031703e-01          -0.2   0
## 4521          4.997865e-03  3.414499e-02          -0.2   0
## 4522          2.740109e-02  1.122112e-01           0.3   0
## 4523         -5.849037e-02 -2.513228e-01          -0.4   0
## 4524          2.525135e-02 -3.952897e-02           0.0   0
## 4525         -6.152433e-02 -1.918507e-01          -0.3   0
## 4526          2.641496e-02  6.164384e-02           0.0   0
## 4527          1.894886e-02 -5.480769e-02          -0.2   1
## 4528          7.623093e-02 -1.619076e-02          -0.1   1
## 4529         -3.405564e-02 -1.357143e-01          -0.2   0
## 4530         -3.120518e-02 -1.089046e-01           0.0   0
## 4531          4.345312e-02  1.646707e-01           0.0   1
## 4532         -7.107433e-03 -1.054384e-02           0.2   0
## 4533          8.360442e-03  3.465347e-02           0.0   1
## 4534          4.531843e-02  1.132626e-01           0.0   1
## 4535          5.094143e-02  1.615646e-01           0.5   1
## 4536         -4.829632e-02 -4.325513e-02           0.2   0
## 4537          3.764858e-02  1.000000e-02          -0.2   0
## 4538         -8.959649e-03 -1.105651e-02           0.2   1
## 4539          6.491925e-02  3.430013e-02           0.2   1
## 4540         -1.441683e-02 -1.917457e-01           0.4   1
## 4541          9.265889e-03 -8.816964e-02           0.1   0
## 4542          1.363510e-02  1.714459e-01           0.2   1
## 4543         -1.581579e-02 -1.213675e-01           0.0   1
## 4544         -8.594307e-02  3.112934e-02           0.1   1
## 4545          5.930710e-02  5.268001e-01           0.7   1
## 4546          1.296026e-02  6.910963e-02           0.1   1
## 4547         -1.354533e-02 -1.066870e-01          -0.3   0
## 4548          1.912232e-02  1.508403e-01           0.1   1
## 4549         -8.107835e-03 -1.748494e-01          -0.2   0
## 4550          2.917329e-02  6.966115e-02           0.2   1
## 4551         -6.040291e-02 -1.806854e-01          -0.3   0
## 4552         -3.316541e-02 -2.248293e-01          -0.1   0
## 4553         -3.957477e-02 -8.563900e-03          -0.1   1
## 4554         -4.624055e-02 -1.265070e-01          -0.1   0
## 4555         -1.422472e-02 -3.735338e-02           0.2   0
## 4556         -5.920608e-02 -2.472743e-01           0.0   0
## 4557          9.518344e-03  1.371376e-01           0.0   1
## 4558          1.902049e-02  2.450428e-01           0.1   1
## 4559         -5.131301e-02 -2.216863e-01          -0.4   0
## 4560         -7.800232e-02 -3.132059e-01          -0.5   0
## 4561         -1.676451e-02 -2.049851e-01          -0.2   0
## 4562         -3.632292e-02 -1.047711e-02           0.2   0
## 4563          5.790354e-02  1.986175e-01           0.2   1
## 4564          7.119887e-04  9.672408e-02           0.1   1
## 4565         -2.578395e-02 -1.109023e-01          -0.1   0
## 4566          4.369269e-02  1.524070e-01           0.0   0
## 4567          4.246090e-02  0.000000e+00           0.0   1
## 4568          5.369186e-02  2.299843e-01           0.3   0
## 4569          6.701826e-03  2.430619e-01           0.2   0
## 4570         -5.102886e-02 -7.261905e-02          -0.2   0
## 4571          5.230216e-02  2.043271e-01           0.3   1
## 4572          4.727992e-02  6.672822e-02          -0.1   1
```

```
## 4573          5.295087e-02  2.108661e-01          0.2   1
## 4574          4.043911e-03 -5.119826e-02         -0.2   1
## 4575          2.724113e-02  1.356550e-01          0.1   1
## 4576         -1.556587e-03  4.272896e-03          0.0   0
## 4577          2.540855e-02  1.703143e-02          0.2   1
## 4578          7.650684e-02  3.223140e-01          0.6   1
## 4579          3.020093e-02  2.426223e-01          0.4   1
## 4580          1.359337e-02  9.499160e-02          0.2   1
## 4581         -7.188328e-02 -1.949592e-01          0.0   0
## 4582         -2.026314e-02 -1.082126e-01         -0.2   0
## 4583          3.723712e-02 -7.450077e-02          0.3   0
## 4584         -3.131886e-02 -1.795050e-01         -0.4   0
## 4585          4.439574e-02  3.745089e-02         -0.1   1
## 4586          8.771121e-03 -4.782609e-02         -0.4   0
## 4587         -3.461660e-02 -1.946290e-01         -0.1   0
## 4588          7.886638e-03  8.675484e-02          0.1   1
## 4589          2.697473e-02  1.063830e-02         -0.1   1
## 4590          3.546032e-02  1.879699e-01          0.7   1
## 4591          1.933843e-02  4.725024e-02          0.2   1
## 4592          6.502634e-02  3.369631e-01          0.3   0
## 4593          1.182696e-02  1.818182e-01          0.1   1
## 4594          2.228562e-02  3.069344e-02          0.1   0
## 4595         -4.750942e-02 -6.685214e-02         -0.1   0
## 4596          5.335010e-03  3.037752e-02          0.0   1
## 4597          6.021381e-02  6.397306e-02          0.2   0
## 4598          7.426849e-02  1.460584e-01          0.0   0
## 4599          7.441223e-02  7.580859e-02          0.3   0
## 4600         -4.899275e-02 -3.647059e-01         -0.3   0
## 4601          1.626418e-02 -5.989912e-02         -0.3   0
## 4602         -4.688055e-02 -1.309524e-01         -0.3   0
## 4603         -4.909046e-02 -1.258741e-01         -0.2   0
## 4604          1.195801e-01  3.706767e-01          0.5   1
## 4605          2.348330e-03  6.167558e-02          0.5   0
## 4606          7.922074e-02  1.389201e-01         -0.2   0
## 4607         -1.113080e-02  3.653846e-02          0.1   1
## 4608         -2.357746e-02 -1.290976e-01          0.1   0
## 4609          1.463432e-02  1.080033e-01          0.2   1
## 4610         -1.032285e-01 -4.043478e-01         -0.4   0
## 4611          3.266057e-02  1.043799e-01          0.1   1
## 4612          9.078897e-02  2.773065e-01          0.3   1
## 4613          2.755989e-03 -1.078431e-01          0.0   0
## 4614         -3.988748e-02 -6.876280e-02          0.2   0
## 4615         -6.045879e-02 -2.759563e-01         -0.6   0
## 4616          5.475667e-02  2.638711e-01          0.0   1
## 4617          9.686588e-03  5.793651e-02          0.3   0
## 4618         -7.546689e-02 -2.034884e-01         -0.7   0
## 4619          3.143243e-02  1.563096e-01         -0.1   0
## 4620         -3.768103e-02 -1.489214e-01          0.1   0
## 4621          3.306921e-03  1.360280e-01          0.0   0
## 4622         -2.573103e-02 -3.442565e-02         -0.2   0
## 4623          9.167000e-02  3.677866e-01          0.5   1
## 4624         -5.997749e-03  1.697273e-01          0.2   1
## 4625         -9.654482e-02 -3.323027e-01         -0.1   0
## 4626          6.066832e-03  1.221702e-01          0.0   1
## 4627          7.256226e-03  1.546402e-01          0.1   1
## 4628         -4.656529e-02  2.222444e-02         -0.1   1
## 4629          3.247951e-02  9.391071e-02          0.1   1
## 4630         -2.565667e-02  6.853525e-03         -0.1   0
```

```
## 4631          -2.093508e-02 -7.165881e-02           0.0   0
## 4632          -9.053863e-03  7.967098e-02           0.0   1
## 4633          -3.634930e-02 -4.549808e-02           0.0   0
## 4634          -8.133976e-02 -1.271686e-01           0.0   1
## 4635          -4.312468e-03  4.019038e-02           0.0   1
## 4636           3.026592e-02  4.368132e-02          -0.1   1
## 4637          -3.636990e-02 -4.037006e-02           0.0   1
## 4638          -2.537507e-02  8.130081e-02           0.3   0
## 4639          -2.297012e-02 -1.733604e-01           0.4   0
## 4640          -3.413391e-02 -1.028736e-01          -0.3   0
## 4641          -1.721056e-02 -8.281573e-03           0.1   0
## 4642          -6.386376e-02 -1.564797e-01           0.0   0
## 4643          -1.219029e-02  9.011200e-02           0.3   1
## 4644           3.444579e-02  6.451613e-02           0.0   0
## 4645           3.972484e-02  9.934087e-02           0.2   1
## 4646           4.631813e-02  3.147399e-01           0.1   1
## 4647           1.622555e-02  1.157025e-01          -0.2   0
## 4648          -2.090670e-03 -1.716976e-01          -0.3   0
## 4649          -8.390224e-02 -9.383652e-02           0.0   1
## 4650           6.667236e-02  1.801802e-01           0.1   1
## 4651           1.123580e-03  8.854852e-02           0.3   1
## 4652          -3.729594e-02 -5.262940e-02           0.1   0
## 4653           5.585424e-02  1.487179e-01           0.0   0
## 4654          -5.443168e-02  5.121294e-02           0.1   0
## 4655          -4.233213e-02 -4.117647e-02           0.0   0
## 4656          -1.497433e-02  6.038647e-02           0.1   0
## 4657           4.574851e-03 -1.283019e-01           0.1   1
## 4658          -1.377022e-01 -3.672655e-01          -0.2   0
## 4659           4.658119e-02  1.466069e-01           0.0   1
## 4660           1.581878e-01  4.029692e-01           0.2   0
## 4661          -8.472305e-03 -1.293191e-01           0.2   0
## 4662           5.070539e-02  1.132270e-01           0.4   1
## 4663           7.746660e-03  2.469612e-02           0.0   1
## 4664           2.580746e-02  7.653061e-02           0.0   0
## 4665           9.504751e-03  6.250000e-02           0.0   1
## 4666          -5.329201e-03 -1.126871e-01          -0.2   0
## 4667          -6.986249e-03 -1.215201e-02           0.1   1
## 4668           3.211786e-03 -4.806409e-02          -0.3   0
## 4669          -1.800383e-02 -8.202410e-02           0.0   0
## 4670          -2.849793e-02 -1.500671e-01           0.0   0
## 4671           1.664862e-03  4.025765e-02           0.0   1
## 4672           4.466972e-02  9.440559e-02           0.4   1
## 4673          -1.092542e-01 -2.293907e-01          -0.1   1
## 4674           8.880529e-02  2.187728e-01           0.2   1
## 4675           1.804685e-02 -4.000000e-03          -0.2   0
## 4676           5.016834e-02  4.184127e-01           0.3   1
## 4677          -5.489381e-02 -2.098662e-01          -0.3   1
## 4678          -1.489398e-02 -1.594203e-01           0.1   1
## 4679           4.059451e-03 -3.852618e-02           0.3   1
## 4680           6.187096e-02  6.250000e-02          -0.2   0
## 4681           1.552814e-02  4.545455e-02           0.1   1
## 4682           4.332163e-02  1.554549e-01           0.3   1
## 4683          -6.089221e-03 -1.686536e-01          -0.2   0
## 4684          -5.252167e-02  4.303406e-02           0.1   1
## 4685           9.558683e-02  3.077396e-01           0.2   1
## 4686           4.278767e-03  5.399912e-02           0.2   1
## 4687           2.734367e-02 -3.216532e-02          -0.3   0
## 4688           4.807739e-02  1.137255e-01           0.2   0
```

271

```
## 4689        -7.486389e-02 -4.917808e-01        -0.3    0
## 4690        -1.307441e-01 -4.629508e-01        -0.6    0
## 4691         1.021778e-01  4.129213e-01         0.3    0
## 4692         6.709792e-02  2.556936e-01         0.0    0
## 4693        -1.333892e-02 -6.139732e-02         0.1    1
## 4694        -7.205458e-03  1.134433e-01        -0.2    0
## 4695        -2.035835e-02 -2.072336e-01        -0.2    0
## 4696        -7.092832e-02 -1.682191e-01        -0.1    1
## 4697         7.096921e-02  2.291540e-01         0.3    1
## 4698         2.500404e-04  4.146341e-02         0.1    1
## 4699         1.225184e-01  3.451034e-01         0.4    1
## 4700         4.330246e-02  0.000000e+00        -0.2    1
## 4701         8.458698e-02  2.874687e-01         0.3    1
## 4702        -4.100916e-02 -3.177177e-01        -0.3    0
## 4703         2.606174e-02  7.285004e-02        -0.2    0
## 4704         3.051524e-03 -4.062927e-02         0.1    1
## 4705         1.174404e-02  1.427447e-01         0.2    1
## 4706         4.269667e-02  1.853282e-02         0.1    1
## 4707         6.147391e-03  9.766811e-02         0.2    0
## 4708        -8.094761e-02 -9.279279e-02        -0.3    0
## 4709        -3.142078e-02 -2.425482e-02        -0.4    0
## 4710         9.366866e-04 -7.827039e-02        -0.3    0
## 4711         2.744534e-02  9.440639e-02         0.2    1
## 4712        -5.670582e-03  4.030759e-02        -0.2    1
## 4713         8.166119e-02  3.962418e-01         0.2    1
## 4714        -2.124459e-03  8.030146e-02         0.3    1
## 4715         3.922881e-03  3.298969e-02         0.0    1
## 4716        -6.428582e-02 -1.111111e-01         0.2    0
## 4717        -5.442686e-02 -2.487395e-01        -0.5    0
## 4718         3.400814e-02  1.498538e-01         0.2    1
## 4719         4.503134e-02  1.312392e-02         0.4    1
## 4720         3.074250e-02  4.144901e-02         0.2    1
## 4721        -1.112013e-01 -4.465099e-01        -0.5    0
## 4722         1.135437e-02  2.217742e-01         0.4    1
## 4723        -6.695149e-03  1.756757e-01         0.0    0
## 4724        -8.224295e-02 -3.855769e-01        -0.5    1
## 4725        -1.551278e-01 -4.049622e-01        -0.3    0
## 4726         2.595928e-02  2.420157e-01         0.2    1
## 4727         8.428913e-02  1.236879e-01        -0.1    0
## 4728        -4.179919e-02 -1.158192e-01         0.0    0
## 4729         1.099339e-01  5.713795e-01         0.6    1
## 4730        -9.663785e-02 -5.019342e-01        -0.5    0
## 4731         3.375945e-02  6.529654e-02         0.2    1
## 4732        -3.719157e-02  1.204678e-01         0.2    1
## 4733         6.718578e-02  1.720708e-01         0.2    1
## 4734         6.212810e-02  1.620869e-01         0.2    0
## 4735        -1.186120e-01 -3.049887e-01        -0.3    0
## 4736        -1.773075e-01 -5.332168e-01        -0.6    0
## 4737        -4.182924e-03 -1.101695e-01        -0.1    0
## 4738        -3.007079e-03 -4.317897e-02         0.0    0
## 4739        -6.604611e-02 -3.905207e-01        -0.3    0
## 4740         1.729959e-02 -9.803922e-04         0.2    1
## 4741         6.026260e-02  1.555556e-01         0.1    1
## 4742        -3.192018e-02 -1.986340e-01        -0.4    0
## 4743        -7.329571e-02 -3.448362e-01        -0.1    0
## 4744        -1.932213e-02 -1.574174e-01         0.0    0
## 4745         8.761130e-02  2.777778e-01         0.2    0
## 4746        -1.096296e-02 -2.631579e-02        -0.2    0
```

```
## 4747      3.479173e-02  2.001671e-01            0.1   1
## 4748     -9.781211e-04  4.132231e-03            0.0   0
## 4749     -4.148320e-02 -2.849224e-01           -0.2   0
## 4750      4.488667e-02  1.920970e-01            0.2   1
## 4751      1.036483e-02  9.262436e-02            0.3   1
## 4752     -1.788351e-02 -1.789474e-01           -0.1   1
## 4753      2.729182e-02  1.171103e-01            0.4   1
## 4754     -1.060970e-02 -2.842105e-01           -0.2   0
## 4755     -1.316641e-01 -5.077453e-01           -0.5   0
## 4756      1.418360e-02  1.868438e-01           -0.1   0
## 4757      6.802022e-02  4.086523e-01            0.6   1
## 4758     -2.098740e-02 -1.188354e-01            0.1   1
## 4759     -2.536881e-02 -4.715783e-02            0.0   0
## 4760     -1.085245e-01 -2.753852e-01           -0.1   0
## 4761      7.882612e-02  3.834746e-01            0.4   1
## 4762     -1.614277e-02 -1.017544e-01            0.0   0
## 4763      2.643325e-02  1.149635e-01            0.1   1
## 4764      1.005403e-02  1.461472e-01            0.2   1
## 4765     -2.458437e-02 -1.445508e-01           -0.2   0
## 4766      1.281510e-02 -1.171968e-01            0.0   0
## 4767      2.075523e-02  1.561772e-01            0.0   1
## 4768      4.140060e-02  2.741935e-01            0.2   1
## 4769      3.160395e-02  8.193146e-02            0.3   1
## 4770      2.561837e-02  2.449432e-01            0.2   1
## 4771      9.133370e-02  5.158730e-02           -0.1   0
## 4772     -7.409956e-02 -4.549946e-01           -0.3   0
## 4773     -5.084747e-02 -3.463715e-01            0.0   0
## 4774     -2.320995e-02 -3.131991e-02            0.1   0
## 4775     -9.674681e-02 -2.801966e-01           -0.4   0
## 4776      3.904589e-03 -4.539703e-02            0.0   0
## 4777     -6.118514e-02 -2.659574e-01           -0.2   0
## 4778      3.710426e-03  1.298077e-01           -0.1   1
## 4779      2.394406e-03  4.201619e-02            0.1   1
## 4780      7.849008e-02  2.575751e-01            0.1   1
## 4781     -3.054745e-03  1.659218e-01            0.1   1
## 4782     -3.262203e-02 -8.902996e-02           -0.1   0
## 4783     -2.367625e-03  9.874296e-03           -0.1   0
## 4784     -3.117179e-02 -1.850253e-01            0.0   0
## 4785      4.495960e-02 -2.222222e-02            0.0   0
## 4786      3.260131e-02  9.686392e-02            0.2   1
## 4787      2.613365e-02 -1.423933e-03            0.1   1
## 4788     -2.388234e-02  4.714444e-02           -0.1   0
## 4789      2.131308e-02  5.678763e-02           -0.1   0
## 4790      2.491411e-02  1.476190e-01            0.1   1
## 4791      1.228147e-02  2.958904e-01            0.4   1
## 4792      2.380383e-02 -1.165432e-01           -0.3   0
## 4793     -5.354340e-02 -1.546875e-01           -0.1   0
## 4794     -1.779804e-02  1.730769e-02           -0.1   0
## 4795      6.852563e-02  1.013730e-01           -0.1   1
## 4796      2.664786e-02  2.071906e-01            0.6   1
## 4797      4.196485e-02  2.282051e-01            0.2   1
## 4798      1.101611e-02  3.256445e-03           -0.4   1
## 4799     -6.508151e-02 -2.137995e-01            0.0   1
## 4800      4.520372e-02  9.824561e-02            0.1   0
## 4801     -8.876202e-02 -1.875000e-01           -0.2   0
## 4802     -1.872851e-02 -1.608392e-01           -0.1   0
## 4803      7.660564e-02  1.628483e-01            0.4   1
## 4804     -1.888789e-02 -3.828283e-01           -0.2   0
```

```
## 4805          -5.159223e-02 -3.003472e-01          -0.2   0
## 4806          -3.133579e-02  2.616279e-02           0.0   0
## 4807           7.599053e-02  4.205128e-01           0.7   1
## 4808           8.537812e-03 -8.295626e-02           0.2   0
## 4809           5.735091e-02  1.656498e-01           0.0   1
## 4810           2.976865e-02  1.292009e-01          -0.2   0
## 4811           5.919062e-02  1.266982e-01           0.0   1
## 4812          -6.259745e-02 -1.442424e-01           0.1   0
## 4813           3.629666e-02 -1.219512e-02           0.0   1
## 4814           7.405808e-02 -4.716981e-02          -0.1   1
## 4815           7.337726e-02  1.225225e-01           0.0   1
## 4816          -2.942907e-02 -6.596972e-02          -0.2   0
## 4817          -7.123457e-03 -8.208873e-02          -0.1   0
## 4818          -2.018037e-02 -4.320276e-02           0.3   1
## 4819          -1.794281e-02 -1.341912e-01          -0.1   0
## 4820          -7.673378e-02 -2.583837e-01          -0.3   0
## 4821          -7.175328e-02 -1.500000e-01          -0.4   0
## 4822           3.914765e-02  2.659956e-01           0.4   0
## 4823           4.555030e-02  2.045455e-01           0.0   0
## 4824           1.531975e-02 -4.210526e-03          -0.1   0
## 4825          -6.681558e-03 -9.442641e-02          -0.2   0
## 4826          -9.852031e-03 -2.217054e-01          -0.1   0
## 4827          -4.581346e-03 -1.854869e-01          -0.2   0
## 4828          -1.381730e-02 -9.239894e-02           0.2   1
## 4829          -2.397975e-02 -3.121519e-01          -0.2   1
## 4830           7.616717e-02  2.174699e-01           0.2   1
## 4831           5.481134e-02  6.801535e-02           0.0   0
## 4832          -6.869217e-02 -3.196640e-01           0.0   1
## 4833          -5.399434e-02 -1.098637e-01          -0.2   0
## 4834          -6.162957e-02 -6.231343e-02           0.0   0
## 4835          -3.712180e-02 -3.096458e-01          -0.3   1
## 4836          -3.045269e-02  1.508164e-02          -0.3   0
## 4837           2.427436e-02  3.866134e-01           0.2   1
## 4838           8.158566e-02  3.214030e-01          -0.1   0
## 4839          -3.302440e-02 -1.804348e-01          -0.2   0
## 4840           2.800303e-02  2.312914e-01          -0.2   0
## 4841           8.856992e-02  1.038961e-01          -0.1   0
## 4842          -6.155336e-02 -2.188805e-01          -0.2   0
## 4843          -5.382210e-02 -1.574074e-01          -0.1   0
## 4844           3.723515e-02  9.262436e-02           0.0   1
## 4845           5.870604e-02  1.480990e-01           0.0   1
## 4846           1.145149e-02  1.897533e-02           0.0   0
## 4847           1.762036e-02  2.079772e-02           0.1   1
## 4848           4.571399e-02  1.589267e-01           0.2   1
## 4849          -7.130331e-03 -2.852657e-01           0.0   0
## 4850          -4.842252e-02 -2.916301e-01           0.0   0
## 4851          -4.744239e-02 -2.237305e-01          -0.2   1
## 4852           3.488793e-02  9.431536e-04          -0.1   1
## 4853           5.561626e-02  1.973684e-01           0.3   0
## 4854           5.077219e-02  1.045680e-01           0.0   0
## 4855          -8.134903e-03  1.797101e-01           0.0   1
## 4856           4.188455e-02  2.179928e-01           0.1   1
## 4857           4.746112e-02  4.993758e-02           0.0   1
## 4858           1.833767e-03  2.014628e-01           0.0   1
## 4859          -8.282587e-03  7.866484e-02           0.1   1
## 4860           2.850497e-02 -3.283914e-02           0.1   1
## 4861          -4.473690e-02  6.333333e-02           0.0   0
## 4862           5.274167e-02  2.546230e-01           0.1   1
```

```
## 4863           3.097244e-02  1.203209e-01         -0.1   0
## 4864           2.540362e-03 -2.012072e-02         -0.2   0
## 4865           1.654827e-02 -1.165459e-01          0.4   1
## 4866          -6.382016e-02 -1.073446e-01          0.0   1
## 4867           1.056025e-02  4.057018e-02          0.1   1
## 4868           5.691215e-02  4.065041e-03          0.0   1
## 4869          -3.658099e-02 -1.660854e-01          0.0   0
## 4870          -6.423852e-02 -2.878788e-01         -0.2   1
## 4871          -9.913451e-03  8.960980e-02          0.2   0
## 4872          -2.603969e-02 -3.322917e-01         -0.1   0
## 4873           7.811955e-02  6.618962e-02          0.3   1
## 4874           5.371636e-02  1.820896e-01          0.0   0
## 4875           9.359112e-03  1.212121e-02         -0.1   0
## 4876          -5.795700e-02 -3.297872e-02          0.0   0
## 4877           8.592955e-02  1.102041e-01          0.3   1
## 4878          -7.964152e-02 -2.518854e-01         -0.1   0
## 4879          -1.381677e-02  2.668394e-01          0.3   1
## 4880          -1.497279e-03  6.211180e-03          0.2   1
## 4881           1.160959e-02  8.870275e-02         -0.4   1
## 4882          -3.943372e-02 -2.847458e-02          0.0   1
## 4883           7.199366e-02  3.212327e-01          0.1   1
## 4884          -7.165077e-03 -6.002401e-03         -0.4   1
## 4885          -3.215802e-02 -2.742813e-01         -0.5   0
## 4886          -5.205643e-02 -1.785714e-02          0.2   1
## 4887           1.866569e-02 -2.439024e-02          0.0   0
## 4888          -5.256188e-02 -6.809550e-02          0.0   0
## 4889          -4.958069e-02 -5.392157e-02          0.0   1
## 4890           1.708812e-03  6.592238e-02          0.0   1
## 4891          -3.619941e-02 -1.251420e-01          0.2   0
## 4892          -1.002009e-01 -2.666667e-01         -0.2   0
## 4893           1.174849e-02  2.113238e-02         -0.2   1
## 4894           1.673171e-02  1.329545e-01          0.2   0
## 4895           8.918695e-03  1.866197e-01          0.2   1
## 4896          -2.643638e-02 -4.918033e-02          0.2   1
## 4897           7.973690e-02  2.620690e-01          0.1   0
## 4898           3.378848e-02  7.936508e-02          0.0   0
## 4899           5.007626e-02  6.283014e-02          0.0   0
## 4900          -8.615285e-02 -2.421705e-01          0.1   0
## 4901          -2.107483e-02 -4.357864e-02         -0.2   0
## 4902          -6.625223e-03 -2.469136e-02          0.0   0
## 4903          -2.577764e-02  4.044194e-02          0.2   0
## 4904           2.565308e-02  8.837209e-02         -0.1   1
## 4905          -1.371960e-01 -2.573427e-01          0.1   0
## 4906          -3.747897e-02 -9.055728e-02          0.0   1
## 4907           7.934748e-03  7.622625e-03          0.0   0
## 4908          -9.914265e-02 -1.870229e-01          0.2   0
## 4909           2.111145e-04  5.878872e-02          0.2   1
## 4910           8.294075e-02  1.676548e-01         -0.3   1
## 4911          -3.070382e-02 -2.362637e-01         -0.4   0
## 4912          -4.547501e-03 -3.869919e-02          0.0   0
## 4913           2.656109e-02 -1.356922e-02          0.2   1
## 4914           6.859829e-03  7.767945e-02          0.0   1
## 4915          -2.485136e-02 -7.710203e-02          0.0   0
## 4916           5.932516e-02  7.498783e-02          0.2   1
## 4917          -1.914774e-02  1.753330e-01          0.1   1
## 4918           6.888439e-02  2.850196e-01          0.7   1
## 4919          -2.980511e-03 -1.359477e-01         -0.3   1
## 4920          -2.415406e-04 -2.115385e-01         -0.1   1
```

275

```
## 4921            7.506023e-02  2.719069e-01           0.5    1
## 4922            1.717464e-02  1.458886e-01           0.4    1
## 4923           -5.986057e-02 -1.358333e-01          -0.2    0
## 4924           -4.080378e-02 -2.103689e-01          -0.4    1
## 4925           -1.002680e-01 -3.740697e-01          -0.4    0
## 4926           -8.650870e-02 -7.181467e-02           0.3    1
## 4927           -4.826942e-02  3.073662e-02          -0.1    1
## 4928           -6.320712e-02 -1.045699e-01          -0.1    0
## 4929            9.377966e-03  2.494172e-01           0.3    1
## 4930           -1.084458e-01 -2.397459e-01          -0.2    1
## 4931           -7.551670e-02 -2.329670e-01          -0.3    0
## 4932            8.990763e-03 -6.198561e-02          -0.1    1
## 4933            5.119528e-02  2.259604e-01           0.6    1
## 4934            1.846748e-02  3.072479e-02          -0.2    0
## 4935            3.273464e-02 -3.679654e-02           0.1    1
## 4936            2.132543e-02  4.800856e-01           0.7    1
## 4937           -2.091735e-02 -1.298077e-01          -0.1    1
## 4938            2.143040e-02  1.188883e-01           0.2    1
## 4939            7.405608e-03 -1.949934e-01          -0.3    0
## 4940            2.272367e-02 -1.428571e-03           0.0    0
## 4941            6.323112e-02  3.033033e-01           0.4    1
## 4942           -9.680504e-02 -2.624043e-01          -0.3    0
## 4943            8.868645e-03  2.090909e-02           0.1    1
## 4944           -5.055150e-02 -3.187803e-01          -0.4    0
## 4945           -9.076172e-02 -1.557918e-01          -0.1    0
## 4946           -5.169155e-02 -9.906760e-02           0.0    1
## 4947            2.415316e-02  3.994805e-02          -0.1    1
## 4948           -1.023146e-01 -9.722222e-02           0.0    0
## 4949            4.626496e-02  2.256289e-01           0.2    1
## 4950            4.924094e-02  1.557734e-01           0.4    1
## 4951            1.059320e-02 -1.045526e-01           0.2    0
## 4952            7.059881e-02  1.727273e-01           0.1    1
## 4953           -1.379762e-02 -8.398693e-02          -0.3    1
## 4954           -1.967764e-03  2.238806e-02           0.1    1
## 4955           -3.148373e-04  7.254902e-02           0.1    0
## 4956            4.296425e-02 -1.266507e-01           0.0    1
## 4957            1.197274e-01  4.662894e-01           0.3    1
## 4958            4.307692e-02  6.057423e-02           0.1    0
## 4959            2.156773e-02 -8.928571e-03          -0.3    0
## 4960           -2.646615e-02 -5.292205e-02          -0.4    0
## 4961           -9.498706e-03 -6.797386e-02           0.1    0
## 4962            1.103892e-02  1.611722e-01          -0.1    0
## 4963            7.294776e-02  3.468151e-01           0.5    1
## 4964           -5.004809e-02 -4.028617e-01          -0.2    0
## 4965           -1.790489e-02  6.848446e-02          -0.1    1
## 4966           -4.237832e-02 -2.714286e-01          -0.4    0
## 4967           -6.523371e-04  1.634747e-01           0.2    1
## 4968            6.604820e-02  2.887067e-01           0.5    1
## 4969            5.461316e-02  3.317635e-01           0.3    1
## 4970            4.802078e-03  8.510317e-02           0.2    1
## 4971           -1.470918e-01 -4.101382e-01          -0.2    0
## 4972           -3.708111e-02 -1.579762e-01           0.0    0
## 4973           -5.268252e-03 -1.947581e-01          -0.3    0
## 4974            1.446249e-02 -1.152433e-01           0.1    1
## 4975            4.517310e-02  6.910071e-02           0.3    0
## 4976            3.454577e-03  1.587302e-02           0.2    1
## 4977            6.055198e-02  2.168734e-01           0.3    1
## 4978            1.353777e-01  3.690299e-01           0.2    1
```

276

```
## 4979            1.513372e-02  1.711039e-01          0.2   1
## 4980           -1.194498e-01 -4.051724e-01         -0.4   0
## 4981           -5.640614e-02 -2.101898e-01         -0.2   0
## 4982           -4.655903e-02 -9.811396e-02         -0.1   1
## 4983            9.079168e-03  8.514174e-02         -0.3   1
## 4984            4.199147e-02 -2.624209e-01         -0.3   0
## 4985           -6.250484e-02 -1.986220e-01         -0.3   0
## 4986            1.685769e-02  1.331212e-01          0.1   0
## 4987            3.122308e-02  3.388158e-01          0.3   1
## 4988           -5.011552e-02 -2.986111e-01         -0.2   0
## 4989            3.468667e-02  8.673469e-02         -0.1   0
## 4990           -8.209758e-02 -3.038961e-01         -0.4   0
## 4991            8.425530e-02  5.147992e-01          0.3   0
## 4992            3.672304e-02  3.336957e-01          0.3   1
## 4993            1.029799e-02 -3.349876e-02          0.0   1
## 4994            7.047766e-03  3.745593e-02          0.2   0
## 4995           -8.293881e-02 -2.908996e-01         -0.2   0
## 4996           -1.257316e-03 -1.346154e-01          0.1   1
## 4997           -3.608863e-02 -5.431052e-02         -0.2   0
## 4998            2.496629e-02  9.615385e-03          0.1   0
## 4999           -3.673543e-02  7.643098e-02          0.2   1
## 5000            7.305556e-02  1.904146e-01          0.1   1
## 5001            7.435679e-03 -9.075374e-02         -0.3   0
## 5002           -2.471013e-02 -2.124940e-01         -0.2   0
## 5003            5.380667e-02  2.408918e-01          0.3   1
## 5004           -5.784678e-02 -1.399225e-01         -0.1   0
## 5005            4.382164e-02  2.428152e-01          0.0   1
## 5006            4.253399e-02  2.879418e-01          0.2   1
## 5007            1.992336e-02  5.782914e-02          0.0   0
## 5008           -7.456455e-02 -3.363605e-01          0.0   0
## 5009           -8.970101e-03 -1.589872e-01         -0.1   0
## 5010           -1.526919e-02  1.948338e-02          0.1   1
## 5011           -3.794649e-03 -1.209200e-01          0.2   0
## 5012            1.670959e-03 -6.410256e-03         -0.1   0
## 5013           -1.821929e-02  1.910256e-01          0.0   0
## 5014            3.082115e-02  2.760392e-01          0.2   1
## 5015            7.558102e-02  2.108351e-01          0.0   1
## 5016            4.994251e-03  1.993865e-03          0.1   0
## 5017            1.585047e-02  8.917197e-02          0.0   1
## 5018           -4.383553e-02  2.420490e-02          0.1   0
## 5019           -1.274245e-02  7.185860e-02          0.0   1
## 5020           -5.207632e-02 -6.717436e-02         -0.1   0
## 5021           -3.428666e-02 -3.055556e-01         -0.3   0
## 5022           -7.438329e-02 -2.968037e-01         -0.2   0
## 5023           -8.371751e-03 -2.967564e-02          0.1   1
## 5024            2.233934e-02 -5.817028e-02          0.0   0
## 5025            2.408200e-02  1.160242e-01          0.3   1
## 5026            9.088210e-02  2.833333e-01          0.1   1
## 5027            5.153075e-03  8.400488e-02         -0.3   0
## 5028           -3.717727e-02  1.363184e-01          0.2   1
## 5029            9.572426e-02  2.258398e-01          0.3   1
## 5030           -3.079447e-03  3.689320e-02          0.2   1
## 5031            2.881678e-02 -7.142857e-02         -0.1   1
## 5032            4.009784e-02  6.773619e-02          0.1   0
## 5033            1.080803e-02 -1.985294e-01         -0.3   1
## 5034           -3.125010e-02  2.559401e-01          0.2   0
## 5035           -2.137548e-02 -3.343423e-02          0.0   1
## 5036            2.042106e-02  1.688312e-01          0.2   1
```

```
## 5037          2.314558e-02 -5.098039e-02          -0.1  0
## 5038         -8.400116e-02 -1.444444e-01          -0.4  1
## 5039          6.088132e-02  7.965861e-02           0.5  1
## 5040         -5.469697e-02 -2.803030e-01          -0.3  0
## 5041          1.003524e-02 -2.247788e-01          -0.3  0
## 5042         -2.219637e-02  9.313725e-02           0.3  0
## 5043         -9.866017e-03 -1.472603e-01           0.0  0
## 5044          2.341220e-02  8.173913e-02           0.4  1
## 5045         -3.445804e-02  3.176471e-02          -0.1  1
## 5046          7.749306e-03  3.129870e-01           0.2  1
## 5047         -5.503281e-03  1.360544e-02          -0.1  1
## 5048         -4.533208e-02 -2.019584e-01          -0.5  1
## 5049          2.004520e-02  2.604167e-02          -0.2  1
## 5050         -7.610409e-02 -4.468200e-01          -0.6  0
## 5051         -1.082767e-02  5.517827e-03          -0.6  0
## 5052          5.867072e-02  1.412115e-01           0.2  1
## 5053         -7.990288e-03  1.353352e-01           0.3  1
## 5054         -4.349974e-02 -7.072368e-02           0.1  0
## 5055         -2.909610e-02 -1.450980e-01          -0.1  1
## 5056         -4.673547e-02 -3.623188e-02          -0.2  1
## 5057         -2.368089e-02 -7.478992e-02           0.2  0
## 5058         -2.951216e-02 -5.303030e-02           0.2  0
## 5059         -5.286538e-03 -4.528478e-02          -0.1  0
## 5060          1.562013e-02 -4.937843e-02          -0.2  0
## 5061         -5.328373e-02 -5.882353e-02          -0.2  0
## 5062          4.878106e-02 -8.888889e-02          -0.2  0
## 5063         -5.695645e-02 -5.100334e-02          -0.1  1
## 5064         -2.808855e-02 -1.801802e-02          -0.2  0
## 5065         -5.880856e-02 -1.599258e-01           0.2  0
## 5066         -4.552995e-02  1.585082e-01           0.4  0
## 5067         -5.413762e-02 -1.594893e-01          -0.2  1
## 5068          3.087262e-02  2.149313e-02           0.1  1
## 5069          6.208795e-02  1.020903e-01          -0.2  1
## 5070         -6.107739e-02 -1.895281e-01          -0.2  1
## 5071          1.531005e-02  8.444444e-02           0.2  1
## 5072          2.756129e-02  2.393162e-01           0.3  1
## 5073         -3.459327e-02 -2.338227e-01          -0.5  0
## 5074          2.884160e-02  3.483862e-01           0.3  1
## 5075         -2.510357e-02 -2.268227e-01          -0.5  0
## 5076         -6.378567e-02 -1.511163e-01          -0.5  1
## 5077          9.059033e-02  2.840742e-01           0.2  1
## 5078         -2.893224e-02 -3.471971e-01          -0.3  0
## 5079         -1.728631e-02 -1.347214e-02          -0.4  0
## 5080          3.124546e-02  2.357143e-01           0.2  1
## 5081         -5.842300e-02 -1.030184e-01           0.1  0
## 5082         -2.181000e-02  1.232456e-01          -0.1  1
## 5083         -1.567675e-02  9.928781e-02           0.2  0
## 5084         -3.140677e-02  1.764706e-01           0.2  1
## 5085         -3.090347e-02 -6.607547e-02           0.0  0
## 5086         -5.621982e-02 -3.285821e-01          -0.5  0
## 5087         -1.258528e-02 -1.671811e-01          -0.5  0
## 5088         -6.993661e-02 -1.749644e-01          -0.4  0
## 5089         -3.873097e-02 -2.876847e-01          -0.1  0
## 5090         -5.946697e-02 -3.513514e-02           0.1  0
## 5091         -4.077047e-02 -1.117826e-01          -0.2  0
## 5092         -3.783025e-02 -1.393524e-01          -0.1  1
## 5093         -9.853661e-02 -3.303072e-01          -0.5  0
## 5094          2.962320e-02 -3.238151e-03          -0.2  0
```

```
## 5095         -3.637295e-03 -1.053189e-01         -0.2  0
## 5096         -2.552279e-02 -1.125452e-01         -0.4  0
## 5097          1.385035e-03  9.365874e-02          0.1  1
## 5098          2.247391e-02  1.305263e-01          0.2  1
## 5099         -4.578769e-02 -2.555970e-02          0.1  0
## 5100          5.315172e-02  1.533333e-01          0.3  1
## 5101         -5.712609e-03  2.527174e-01          0.2  0
## 5102         -7.849925e-02 -1.625839e-01          0.1  0
## 5103         -6.374171e-03 -2.183908e-01         -0.1  0
## 5104          7.644720e-02  8.067797e-02          0.0  1
## 5105         -1.684995e-02 -5.686275e-02         -0.2  1
## 5106          8.367987e-02  3.136123e-01          0.6  1
## 5107          3.216436e-03 -5.991867e-02         -0.1  0
## 5108         -4.437220e-02  1.680224e-01          0.4  1
## 5109          8.570898e-02  4.642857e-01          0.6  1
## 5110          9.545885e-03  8.564356e-02          0.0  0
## 5111         -8.651940e-02 -2.666858e-01         -0.3  0
## 5112          9.221813e-02  1.311910e-01          0.1  1
## 5113          5.635404e-02  2.074074e-01          0.3  1
## 5114          1.147140e-01  3.401748e-01          0.2  1
## 5115          1.805854e-02  1.093793e-02         -0.3  0
## 5116          7.128763e-02  1.774194e-01          0.4  0
## 5117          1.073369e-01  2.975526e-01          0.2  1
## 5118          7.952338e-03 -6.584177e-02          0.0  1
## 5119         -6.337442e-02 -4.155844e-01         -0.6  1
## 5120          5.466706e-02  3.163993e-02          0.2  0
## 5121          2.388886e-02  2.502976e-01          0.4  0
## 5122         -4.543221e-04 -1.105380e-02         -0.1  0
## 5123          4.785560e-02  1.664387e-01          0.3  1
## 5124          1.026617e-02  2.115463e-01          0.0  0
## 5125         -1.741737e-03  1.080247e-02          0.6  0
## 5126         -4.123773e-03 -6.498641e-02          0.2  1
## 5127          2.904889e-02 -1.166667e-02          0.0  1
## 5128          1.579896e-02 -9.659091e-02          0.1  0
## 5129          1.804288e-02 -1.226891e-01          0.0  1
## 5130          1.092740e-03  1.174089e-01          0.1  0
## 5131         -1.038898e-01 -1.269297e-01          0.0  0
## 5132          1.894024e-02  5.668650e-02         -0.1  0
## 5133          9.606535e-02  3.300477e-01          0.6  1
## 5134          9.731529e-02  3.298841e-01          0.3  1
## 5135         -8.209377e-02 -4.397516e-01         -0.5  0
## 5136          2.414000e-02  1.980884e-01          0.4  1
## 5137         -4.763997e-03  7.580825e-02         -0.3  1
## 5138          6.388133e-02  2.174923e-01          0.1  1
## 5139          3.500644e-02  2.910806e-01          0.2  0
## 5140         -5.641060e-02 -2.131410e-01         -0.4  0
## 5141         -8.187280e-02 -1.672964e-01          0.0  1
## 5142         -4.948753e-02 -3.236414e-02          0.3  0
## 5143         -2.457764e-02 -1.434819e-01         -0.1  0
## 5144          9.396007e-03 -2.323718e-02         -0.3  0
## 5145         -8.432039e-02 -1.806763e-01          0.0  0
## 5146         -5.086753e-02 -1.423620e-01         -0.3  0
## 5147         -1.162421e-02  1.008065e-01          0.4  1
## 5148          1.402778e-02  1.028224e-01          0.1  0
## 5149          8.931516e-02  1.790284e-01          0.1  1
## 5150          5.348698e-03  4.353120e-02          0.0  0
## 5151         -9.752451e-03  1.527778e-01          0.3  1
## 5152          1.701650e-03 -1.870229e-01         -0.1  1
```

```
## 5153        3.317117e-03  6.324265e-02          0.0  0
## 5154        4.810563e-03 -3.430532e-02         -0.2  0
## 5155       -8.136316e-02 -2.811005e-01         -0.3  0
## 5156       -8.422863e-03  9.075342e-02         -0.3  1
## 5157       -1.055042e-01 -2.934307e-01         -0.1  0
## 5158       -3.222097e-02 -1.190476e-01          0.0  1
## 5159       -1.609437e-02 -2.078947e-01         -0.5  0
## 5160       -3.740067e-02 -2.001934e-01         -0.2  1
## 5161        3.745773e-02  1.285079e-02         -0.2  0
## 5162        1.713963e-02  1.473751e-01          0.5  1
## 5163        5.851201e-02  7.430830e-02          0.2  1
## 5164       -2.953664e-02 -5.505545e-02         -0.2  0
## 5165       -2.473535e-02  7.897680e-02         -0.1  0
## 5166        2.656875e-03  4.859335e-02          0.1  1
## 5167        4.496076e-02  2.488229e-01          0.3  1
## 5168       -4.726064e-03 -6.812827e-02          0.1  0
## 5169       -1.044612e-01 -1.355042e-01         -0.1  0
## 5170        7.959590e-03 -3.030303e-02          0.1  0
## 5171       -4.308712e-03  1.645406e-01          0.1  1
## 5172       -2.182938e-02 -1.715259e-01         -0.3  0
## 5173        3.763781e-02  1.125069e-01          0.2  0
## 5174       -4.771359e-02 -1.871577e-01         -0.6  0
## 5175        8.899804e-03 -5.124088e-02          0.1  1
## 5176       -4.819784e-02 -6.634964e-02          0.0  1
## 5177       -7.102532e-03 -1.133181e-01         -0.1  1
## 5178        3.356467e-02 -6.101273e-02          0.0  0
## 5179       -1.198835e-02 -1.549509e-02         -0.3  0
## 5180       -1.540992e-03 -3.036437e-02          0.1  1
## 5181       -3.227603e-02 -9.541284e-02         -0.2  0
## 5182        1.436773e-02  4.545455e-03         -0.1  0
## 5183        2.423623e-02  6.516291e-02          0.0  0
## 5184       -3.922509e-02 -3.000000e-02         -0.2  0
## 5185        5.108327e-02  1.030303e-01          0.0  0
## 5186        4.412962e-02 -7.619048e-02          0.0  0
## 5187       -4.872284e-02 -2.536232e-01         -0.3  1
## 5188       -4.068289e-02 -2.189542e-01         -0.1  0
## 5189       -6.486088e-02 -2.686567e-02          0.0  1
## 5190       -3.740408e-02  5.789474e-02          0.1  0
## 5191        3.106826e-03  2.500000e-02          0.0  1
## 5192        9.992289e-02  2.311440e-01          0.3  1
## 5193        2.326063e-02  3.615196e-02         -0.1  1
## 5194       -3.873918e-02 -1.622454e-01         -0.4  1
## 5195       -2.304562e-03 -1.845354e-01         -0.3  0
## 5196        4.457640e-02  1.012505e-01          0.1  0
## 5197        2.399751e-02  2.347781e-02         -0.1  1
## 5198       -4.560005e-02 -1.066667e-01          0.2  0
## 5199        2.905317e-02  3.523810e-01          0.1  0
## 5200       -2.708108e-02 -3.164557e-01         -0.1  1
## 5201        5.945864e-02  1.515152e-02          0.2  0
## 5202       -5.404493e-04  4.479283e-03         -0.1  1
## 5203        4.570090e-04 -5.210643e-02          0.0  1
## 5204       -2.980071e-05  3.781513e-03          0.3  1
## 5205       -7.402086e-02 -2.347480e-01         -0.2  0
## 5206       -3.284237e-03  2.464526e-02          0.0  1
## 5207       -5.264516e-02 -2.564103e-01         -0.4  0
## 5208       -7.357492e-02 -8.602151e-02         -0.3  0
## 5209       -1.872929e-02 -6.250000e-02         -0.3  0
## 5210       -2.813268e-03 -8.113590e-02         -0.1  0
```

```
## 5211        2.161612e-02  2.074967e-02        0.1   0
## 5212        1.631977e-02 -6.905210e-03        0.2   0
## 5213        2.230184e-02  7.722008e-02        0.2   0
## 5214       -2.495610e-02 -5.161855e-02        0.1   0
## 5215        4.852418e-02  9.459459e-02       -0.1   1
## 5216       -4.717683e-02 -1.909010e-01        0.0   0
## 5217        3.503693e-02  4.578383e-02        0.1   1
## 5218        1.018662e-01  3.557312e-01        0.3   1
## 5219        1.750890e-02 -3.333333e-02        0.0   0
## 5220       -2.292614e-02 -1.136364e-01       -0.1   0
## 5221        1.921848e-04  7.905983e-02        0.1   1
## 5222        4.883033e-02  1.424079e-01        0.1   1
## 5223       -2.754014e-02  7.447536e-02       -0.2   0
## 5224       -2.128987e-02  1.947368e-01        0.2   1
## 5225       -2.142846e-02 -8.410973e-02       -0.3   1
## 5226        4.182394e-02  1.339744e-01        0.4   1
## 5227       -4.227964e-02 -2.351029e-01       -0.1   1
## 5228        5.472555e-02  1.919192e-01        0.2   1
## 5229       -4.272291e-02  1.201320e-02        0.1   0
## 5230       -3.669078e-04  3.500000e-02        0.1   0
## 5231       -6.311520e-02 -2.341270e-01       -0.3   1
## 5232       -7.240158e-02 -2.086353e-01       -0.2   0
## 5233        5.085130e-02  1.680815e-01        0.0   1
## 5234       -2.022089e-02 -5.433468e-02        0.0   0
## 5235        9.667081e-03  1.247863e-01        0.1   1
## 5236        4.263075e-03  3.882784e-02        0.2   0
## 5237        1.861099e-02  1.043388e-01        0.3   1
## 5238        8.746325e-02  1.699346e-01        0.1   1
## 5239       -7.914226e-03 -1.075851e-01        0.1   0
## 5240        7.305969e-02  3.217148e-01        0.3   1
## 5241        3.648210e-02  1.788749e-01       -0.1   1
## 5242       -7.562439e-02 -1.833547e-01       -0.3   0
## 5243        1.110827e-02 -1.172670e-02       -0.2   0
## 5244        1.046835e-02  7.356342e-02        0.2   1
## 5245        2.359303e-02  1.174603e-01       -0.2   0
## 5246       -3.592807e-02 -3.301809e-02       -0.2   1
## 5247       -2.283128e-02 -3.165007e-02       -0.1   1
## 5248       -6.508886e-03  4.047619e-02       -0.2   1
## 5249        3.190246e-02 -4.061691e-03        0.4   1
## 5250        2.573702e-02 -9.082830e-02        0.2   1
## 5251       -1.261249e-03 -2.447350e-02       -0.3   1
## 5252        3.347528e-02  7.045455e-02        0.5   1
## 5253       -1.879756e-02  5.860215e-02        0.2   1
## 5254        3.705308e-02  9.630880e-02        0.2   1
## 5255       -4.118715e-02  6.345756e-02        0.1   1
## 5256       -2.378235e-02 -3.142857e-01       -0.5   1
## 5257       -5.900750e-03 -1.849957e-01       -0.1   0
## 5258        5.253145e-02  6.086957e-02        0.1   1
## 5259        4.334650e-02 -1.150895e-02        0.2   0
## 5260        4.506840e-02 -1.771187e-02       -0.1   0
## 5261        2.205532e-02  1.090939e-01        0.4   1
## 5262       -6.054899e-02 -1.418440e-02       -0.2   1
## 5263       -5.603170e-02 -3.969134e-01       -0.5   0
## 5264       -6.104554e-02 -1.810526e-02       -0.2   0
## 5265       -3.182427e-02  2.917099e-02       -0.3   0
## 5266        4.763484e-02  2.179116e-01        0.1   0
## 5267        5.601600e-02  2.476628e-01        0.1   0
## 5268        3.508061e-02  8.673381e-02        0.1   0
```

```
## 5269          -1.902632e-02 -1.011025e-01          -0.2   0
## 5270           2.414281e-02  1.831077e-02           0.1   1
## 5271          -1.605631e-02 -3.714286e-01          -0.7   0
## 5272           6.253421e-02  2.524510e-01           0.2   1
## 5273          -7.012025e-02 -2.114286e-01          -0.2   0
## 5274          -5.510837e-02 -1.535258e-01          -0.1   0
## 5275           1.230745e-01  1.768377e-01           0.5   1
## 5276          -8.951032e-02 -1.799178e-01          -0.1   0
## 5277          -8.392621e-02 -6.897730e-02          -0.1   0
## 5278          -1.021268e-01 -4.377510e-01          -0.4   0
## 5279          -1.518058e-03 -2.830688e-01           0.1   0
## 5280          -2.508987e-02 -4.943503e-02          -0.1   0
## 5281          -1.511399e-02  4.464286e-02          -0.1   1
## 5282          -6.350530e-03  1.567810e-02           0.0   0
## 5283          -6.242731e-02 -6.201791e-02           0.2   0
## 5284          -2.855521e-02 -5.593992e-02           0.0   1
## 5285           4.210764e-02  3.070346e-02           0.1   1
## 5286          -1.283674e-02 -2.729940e-01           0.0   0
## 5287          -5.777698e-02 -1.427696e-01          -0.3   0
## 5288          -1.851008e-02 -4.366895e-02           0.0   1
## 5289          -1.007668e-02  2.274607e-03           0.3   1
## 5290          -8.349876e-03 -2.150648e-01           0.1   0
## 5291          -4.264187e-02 -2.622705e-03          -0.2   1
## 5292           1.159587e-02  2.152327e-01           0.2   1
## 5293           1.192450e-02  1.468531e-02           0.1   0
## 5294          -7.146208e-03 -5.081301e-03          -0.4   1
## 5295          -2.718759e-02 -3.934987e-02          -0.2   1
## 5296           1.589994e-02  1.477390e-01           0.3   1
## 5297          -2.108778e-02 -3.580802e-02           0.0   1
## 5298          -2.590179e-02 -6.888545e-02          -0.3   0
## 5299           3.616718e-02  2.743961e-01           0.0   1
## 5300          -5.631588e-02 -9.241837e-02          -0.2   1
## 5301          -3.741073e-03 -5.208333e-02           0.1   0
## 5302           4.161747e-02  1.483958e-01           0.1   1
## 5303          -5.130087e-02  6.863418e-03           0.2   0
## 5304           1.464516e-02 -2.920036e-02          -0.1   1
## 5305          -2.850344e-02  7.241606e-02          -0.2   0
## 5306           1.300923e-02  6.971831e-02           0.1   0
## 5307          -8.693249e-03 -9.002660e-02          -0.1   0
## 5308          -8.572707e-02 -2.486726e-01          -0.3   1
## 5309          -2.381472e-03 -7.692308e-02           0.2   1
## 5310           3.346141e-02  2.339381e-03           0.5   1
## 5311          -9.487495e-04 -6.153846e-02           0.2   0
## 5312          -1.707822e-02  1.787546e-01          -0.3   0
## 5313          -3.434142e-02 -2.262989e-01          -0.6   0
## 5314           2.008111e-02  1.440860e-02           0.3   0
## 5315           6.981437e-02  1.500000e-01           0.1   1
## 5316           1.127487e-03 -5.145462e-02           0.0   0
## 5317          -1.099234e-01 -3.822115e-01          -0.7   0
## 5318           2.067662e-02  1.342466e-01           0.2   0
## 5319          -7.678047e-02 -2.268908e-01          -0.2   0
## 5320           1.931048e-02 -8.638498e-02          -0.1   1
## 5321           1.728190e-02  1.209335e-01           0.3   0
## 5322          -1.198465e-02  8.834660e-02           0.2   1
## 5323           7.386517e-02  8.585526e-02           0.0   1
## 5324          -7.157019e-02 -2.826797e-01          -0.1   0
## 5325          -2.285253e-02 -1.540777e-01           0.1   0
## 5326          -4.541981e-04 -1.405152e-02           0.0   0
```

```
## 5327           1.088180e-02  9.508504e-03        0.0   0
## 5328           7.747272e-03 -1.943301e-01        0.1   0
## 5329          -8.177399e-02 -1.783037e-01       -0.5   1
## 5330          -5.333448e-02 -4.309551e-01       -0.4   0
## 5331           2.432792e-02  4.556028e-02        0.1   0
## 5332          -5.217554e-02 -3.512005e-01       -0.4   0
## 5333           9.944663e-02  3.715866e-01        0.6   1
## 5334          -4.216746e-02 -1.507532e-01        0.0   0
## 5335           4.179486e-02  9.591837e-02        0.0   1
## 5336           2.385219e-02 -5.029926e-02        0.0   1
## 5337           5.315515e-02  1.695157e-01        0.1   1
## 5338           4.254403e-02  3.129400e-01        0.1   0
## 5339           7.381900e-02  1.886792e-01        0.5   1
## 5340           5.803638e-02  3.262968e-01        0.4   1
## 5341          -3.829710e-02 -1.552200e-01       -0.1   0
## 5342           5.920698e-02 -1.008993e-02        0.0   0
## 5343          -5.889948e-02 -2.802455e-01        0.0   0
## 5344           1.770477e-02  2.041667e-01        0.1   1
## 5345          -6.376243e-02 -1.841820e-01       -0.3   0
## 5346          -6.338391e-03  1.194478e-01        0.2   1
## 5347          -4.234053e-02  2.108153e-02       -0.1   0
## 5348           1.242868e-02  1.548160e-02       -0.3   0
## 5349           6.172359e-02  9.101187e-02        0.4   0
## 5350           4.956042e-02  4.200712e-02        0.1   1
## 5351           4.564773e-02  8.640275e-02        0.0   1
## 5352           4.654678e-03  4.970760e-02       -0.1   0
## 5353           2.184684e-02 -4.098361e-02       -0.1   0
## 5354           4.061416e-02  1.017390e-01       -0.1   0
## 5355          -8.950271e-05  1.258844e-01       -0.1   1
## 5356          -5.635863e-02 -6.060606e-02       -0.5   1
## 5357          -7.680862e-03  8.088762e-02       -0.1   0
## 5358          -4.879218e-03 -3.588040e-02        0.2   1
## 5359           1.638215e-02  7.954545e-03        0.1   1
## 5360          -3.779429e-02 -2.465013e-02       -0.1   1
## 5361          -5.818087e-02 -6.936981e-02        0.0   0
## 5362           3.014845e-02  1.829689e-01        0.0   1
## 5363          -5.004664e-02 -1.530093e-01        0.3   0
## 5364          -4.098569e-02  3.639541e-02        0.0   0
## 5365          -2.934663e-02 -5.000000e-02        0.2   1
## 5366           1.859248e-02 -3.183832e-02       -0.1   0
## 5367           1.072677e-01  2.245170e-01        0.2   1
## 5368          -4.912931e-03 -4.881302e-02        0.0   1
## 5369           3.164892e-02  9.871312e-02       -0.1   0
## 5370          -4.994624e-02 -8.527132e-02       -0.3   0
## 5371           7.465345e-02  1.587806e-01        0.2   1
## 5372          -7.569112e-03 -1.864646e-01        0.1   0
## 5373          -1.561911e-02 -1.292533e-01       -0.2   0
## 5374           8.071086e-02  2.258997e-01        0.3   1
## 5375          -2.505828e-02  2.767471e-02        0.0   1
## 5376          -3.204093e-02 -1.017812e-03       -0.3   1
## 5377          -8.112795e-02 -2.298077e-01       -0.2   0
## 5378          -5.267662e-02 -2.601683e-01       -0.4   0
## 5379          -4.375585e-02 -4.424779e-03        0.0   1
## 5380          -6.498606e-02 -7.637017e-02       -0.5   0
## 5381          -2.021939e-02 -1.012997e-01       -0.1   0
## 5382           1.014797e-02  4.171181e-02        0.3   1
## 5383           2.621897e-03 -1.039474e-01        0.1   1
## 5384           9.482029e-02  1.971831e-01        0.2   0
```

```
## 5385        7.016055e-02  2.242921e-01        0.2   1
## 5386       -7.077995e-02 -1.937141e-01       -0.1   0
## 5387        8.265894e-02  9.000000e-02        0.2   1
## 5388       -3.738595e-02 -3.113306e-02        0.0   0
## 5389        7.632898e-02  1.858483e-01       -0.2   1
## 5390        2.662989e-02 -4.721259e-02        0.0   1
## 5391        1.689061e-02  1.139640e-01       -0.1   1
## 5392        1.575657e-02 -4.460374e-02        0.2   1
## 5393       -1.318095e-01 -4.800687e-01       -0.9   0
## 5394       -2.231202e-02  8.508159e-02        0.0   1
## 5395        8.483430e-02  4.337808e-01        0.5   1
## 5396       -1.000253e-01 -3.242036e-01       -0.3   0
## 5397        2.483133e-02  2.013514e-01       -0.1   1
## 5398       -2.973962e-02 -1.459696e-01       -0.1   0
## 5399       -5.201047e-03  3.858318e-02        0.0   1
## 5400        1.077172e-02  1.309203e-02       -0.1   0
## 5401        3.201829e-02  2.697725e-01        0.2   0
## 5402       -5.479753e-02 -1.698565e-01       -0.2   0
## 5403       -5.216898e-02 -2.301517e-01       -0.2   1
## 5404       -2.233191e-02 -1.509543e-01       -0.2   1
## 5405        6.794895e-02  1.567256e-01        0.1   1
## 5406        5.673352e-02  3.124406e-01        0.6   1
## 5407       -4.541241e-02 -7.380174e-02       -0.5   1
## 5408       -3.792512e-02 -7.602299e-02        0.2   0
## 5409       -2.290665e-02 -1.153846e-01       -0.2   0
## 5410       -4.310689e-03 -2.679492e-02       -0.2   0
## 5411        1.399354e-02  5.900621e-02       -0.2   0
## 5412       -9.154445e-02 -1.582418e-01       -0.2   0
## 5413        7.644852e-02  2.681412e-01        0.3   1
## 5414       -6.664428e-02 -6.349206e-02       -0.3   0
## 5415       -2.827880e-03  1.904762e-02       -0.2   1
## 5416        6.008272e-02  8.472687e-02        0.2   1
## 5417       -2.169436e-02 -4.807692e-02       -0.1   0
## 5418        4.573614e-03  4.938272e-03        0.2   1
## 5419       -1.014459e-01 -5.006775e-01       -0.5   0
## 5420       -6.210907e-02 -2.727554e-01       -0.4   0
## 5421       -6.114014e-02 -2.220745e-01        0.0   0
## 5422        4.261305e-02  3.333333e-02        0.2   1
## 5423        6.585928e-02  1.824578e-01        0.1   0
## 5424       -5.804736e-03 -1.165768e-01       -0.4   0
## 5425        3.899959e-02  6.229885e-02        0.3   0
## 5426       -2.782773e-02 -4.363020e-02        0.2   0
## 5427        6.301970e-02  1.564417e-01        0.3   1
## 5428       -4.903102e-02 -1.410256e-01       -0.4   0
## 5429       -7.883054e-03 -7.812500e-02       -0.1   1
## 5430       -4.452020e-02  1.069100e-01        0.0   0
## 5431       -4.756568e-02 -1.733871e-01       -0.1   0
## 5432        4.380895e-02  9.961686e-02        0.1   1
## 5433        1.052658e-02 -2.257454e-01       -0.5   0
## 5434        8.687154e-02  3.581050e-01        0.2   1
## 5435        2.567381e-02  2.714932e-03        0.0   0
## 5436       -4.093742e-02  1.845319e-02        0.1   0
## 5437       -1.880088e-02 -1.451049e-02        0.1   0
## 5438       -1.716189e-02 -1.839080e-02        0.0   0
## 5439       -4.992334e-02  7.314815e-02        0.1   1
## 5440       -1.665506e-03 -1.226310e-01       -0.3   1
## 5441        3.057077e-02  3.280632e-01        0.3   1
## 5442       -1.353639e-02 -1.993827e-01       -0.1   0
```

```
## 5443          4.310305e-02  2.500000e-01           0.4   1
## 5444          2.879478e-02  2.253427e-01           0.3   1
## 5445         -3.419922e-02 -1.405229e-01          -0.1   0
## 5446          1.453834e-02  1.818182e-02           0.2   1
## 5447         -1.049008e-01 -6.386364e-01          -0.7   0
## 5448         -1.412292e-01 -5.293359e-01          -0.7   0
## 5449          3.612871e-02  1.739334e-01           0.2   1
## 5450          6.447999e-02  1.526163e-01           0.3   1
## 5451          2.950216e-02  1.852667e-01           0.2   1
## 5452         -5.677817e-02 -1.714286e-02          -0.1   0
## 5453         -1.097150e-01 -3.513203e-01          -0.5   0
## 5454         -7.460818e-02 -3.396657e-01          -0.3   0
## 5455          4.346549e-02  2.914216e-01           0.4   1
## 5456         -7.888976e-02 -6.683231e-02          -0.1   0
## 5457          2.060060e-02 -3.387988e-02          -0.1   1
## 5458         -9.802428e-02 -2.634859e-01          -0.2   0
## 5459         -2.726930e-02 -3.604938e-01          -0.3   0
## 5460         -1.797189e-02 -2.418182e-01          -0.3   0
## 5461          8.849842e-03  3.213943e-02           0.2   1
## 5462          7.621610e-02  2.683983e-01           0.1   0
## 5463          2.600442e-02  5.503956e-02           0.2   1
## 5464          6.734218e-02  1.364522e-02          -0.1   1
## 5465         -6.490030e-02 -1.687895e-01          -0.2   0
## 5466         -8.521708e-02 -1.883873e-01          -0.6   0
## 5467         -5.951048e-02  3.888889e-02           0.1   1
## 5468         -8.765294e-03 -2.992626e-01          -0.4   0
## 5469          5.726369e-02  2.786854e-01           0.2   1
## 5470         -1.348104e-03  1.043936e-01           0.0   0
## 5471          8.938037e-02  2.207602e-01           0.3   1
## 5472         -4.348847e-02 -6.665081e-02           0.0   1
## 5473          4.147737e-03  3.760142e-03          -0.2   0
## 5474         -4.210486e-02 -1.502883e-01           0.0   0
## 5475         -4.876494e-02 -4.476549e-01          -0.4   0
## 5476         -7.507251e-02 -2.173444e-01          -0.4   0
## 5477          5.307498e-02  8.298851e-02           0.2   1
## 5478         -4.744291e-02 -2.820513e-01          -0.3   0
## 5479          1.706802e-02  1.132275e-01           0.0   1
## 5480         -2.697964e-03 -2.339988e-01          -0.3   0
## 5481          8.428978e-02  1.738095e-01           0.1   1
## 5482         -4.315507e-02 -9.822025e-02          -0.1   0
## 5483         -2.200595e-02 -1.604278e-02          -0.1   1
## 5484          3.194188e-02  1.953488e-01           0.2   1
## 5485         -4.382838e-02 -4.884135e-02          -0.3   1
## 5486          1.252010e-02  3.455696e-01           0.4   1
## 5487         -4.467689e-02 -2.115385e-01          -0.1   0
## 5488         -3.711721e-02 -3.111190e-01          -0.2   0
## 5489          1.355672e-01  2.621255e-01           0.2   1
## 5490         -1.834108e-02 -1.107869e-01           0.1   0
## 5491          4.200041e-02  3.278099e-01           0.4   1
## 5492         -2.301860e-02 -1.632653e-02           0.0   0
## 5493          4.895453e-02 -1.197905e-01          -0.1   0
## 5494          5.125636e-02  1.863733e-01           0.0   1
## 5495          3.200161e-03  3.336376e-02           0.0   1
## 5496         -6.740047e-03 -1.273209e-01          -0.1   0
## 5497          2.551434e-02 -4.933734e-02           0.1   0
## 5498         -2.110223e-02 -2.012881e-01          -0.2   0
## 5499          2.909550e-02  1.484293e-01           0.2   0
## 5500          7.635670e-03  1.078998e-01           0.0   1
```

```
## 5501          -4.630284e-03 -1.267652e-01          -0.1  0
## 5502           5.723579e-03 -1.163366e-01          -0.2  0
## 5503          -2.505496e-02  7.273707e-02          -0.1  1
## 5504          -6.755717e-03 -8.974389e-02           0.0  0
## 5505           1.177910e-02  9.050420e-02           0.1  0
## 5506          -4.457187e-02 -3.758170e-01          -0.4  0
## 5507          -3.637201e-02  1.845238e-01           0.1  0
## 5508           2.593292e-03 -8.536585e-03          -0.3  0
## 5509          -4.679588e-02 -7.903780e-02           0.1  0
## 5510           6.547737e-02  1.331967e-01           0.1  1
## 5511           3.670398e-02  2.477504e-01           0.4  1
## 5512           1.963934e-02  2.776735e-02          -0.3  0
## 5513          -2.256716e-03 -3.271764e-02          -0.1  0
## 5514           1.227160e-02 -9.615385e-03          -0.1  0
## 5515          -4.607672e-02 -3.019518e-01          -0.3  0
## 5516           1.217116e-02  1.503268e-01           0.0  1
## 5517          -4.587634e-02 -6.290727e-02          -0.1  1
## 5518           4.110829e-03 -6.103130e-02          -0.1  0
## 5519           9.267752e-03 -1.984127e-03           0.2  1
## 5520           1.730379e-02  1.783673e-01          -0.1  0
## 5521           1.002790e-01  0.000000e+00          -0.3  1
## 5522          -1.832619e-02  3.746929e-02           0.1  0
## 5523          -7.195291e-02  1.822211e-02          -0.1  1
## 5524          -2.997070e-02 -2.279145e-02           0.0  1
## 5525           1.694006e-02  2.479394e-01          -0.1  1
## 5526           9.478155e-03  9.668239e-02          -0.2  1
## 5527          -4.686755e-02 -2.583587e-01          -0.2  0
## 5528          -1.999318e-03 -2.357639e-01          -0.1  0
## 5529          -1.392492e-03 -1.228571e-01          -0.1  0
## 5530          -6.325801e-02 -1.678422e-01          -0.2  0
## 5531           2.463154e-02  1.818182e-01           0.3  1
## 5532           6.815131e-02  4.235403e-01           0.2  1
## 5533          -3.442744e-02 -1.392857e-01           0.0  1
## 5534           9.066558e-02 -3.185469e-02          -0.2  0
## 5535          -5.287558e-02  2.413005e-03           0.2  1
## 5536           1.751557e-02  6.269026e-02          -0.1  0
## 5537           6.779422e-02  1.083916e-01           0.1  0
## 5538          -1.526969e-02  7.845971e-02           0.0  1
## 5539          -1.114513e-02  8.918539e-02           0.1  0
## 5540           6.249723e-02  1.532574e-01           0.0  1
## 5541          -2.677282e-02 -1.164384e-01           0.1  0
## 5542          -2.212204e-02 -1.764239e-01          -0.1  1
## 5543          -2.918259e-02 -2.941176e-02           0.0  1
## 5544           5.400036e-02  1.761583e-01           0.1  1
## 5545           7.052681e-07  1.672727e-01           0.3  1
## 5546          -5.033978e-02  2.935010e-03           0.0  0
## 5547           3.206946e-02  1.005291e-01          -0.2  0
## 5548          -3.853920e-02  8.180708e-02           0.0  1
## 5549          -3.367862e-02 -8.689539e-02          -0.1  0
## 5550           2.933642e-02  3.768116e-02           0.2  0
## 5551          -5.389020e-02 -2.680488e-01          -0.3  0
## 5552          -4.224074e-02 -1.095890e-01          -0.2  0
## 5553           2.845692e-02 -3.310105e-02           0.2  0
## 5554           3.387953e-02 -1.461523e-01          -0.3  0
## 5555          -2.742839e-03 -1.339489e-01          -0.1  0
## 5556          -3.293635e-02 -8.960507e-02          -0.1  0
## 5557           4.790801e-02 -1.178451e-02           0.0  1
## 5558           1.239729e-01  1.190476e-01           0.0  1
```

```
## 5559          -1.551517e-03  2.897103e-02          0.1   0
## 5560           4.287316e-02  3.411581e-01          0.2   0
## 5561          -1.162717e-02  5.644356e-02         -0.1   1
## 5562           7.116712e-02  2.555556e-01          0.1   0
## 5563           6.346881e-02  3.223654e-01          0.6   1
## 5564           5.563845e-02  2.588745e-01          0.4   1
## 5565          -8.338421e-03 -1.088435e-01         -0.2   1
## 5566          -4.420989e-02 -2.342280e-01          0.1   0
## 5567           4.015542e-02  1.501803e-01          0.2   0
## 5568           1.723698e-02  1.243824e-01          0.2   1
## 5569           1.947447e-02  1.002217e-01         -0.1   1
## 5570           1.503368e-02  1.512605e-02          0.1   0
## 5571           1.664684e-02 -8.485839e-02         -0.2   0
## 5572           6.871523e-03  1.411765e-01          0.2   1
## 5573          -6.923933e-03 -1.088235e-01         -0.1   0
## 5574          -1.309960e-02 -6.410256e-02         -0.2   0
## 5575           2.301996e-02 -1.004785e-01         -0.2   1
## 5576           2.644783e-02  1.502435e-01          0.0   1
## 5577          -2.273313e-02 -1.519715e-02         -0.1   0
## 5578          -1.113041e-02 -3.201024e-01         -0.3   0
## 5579           1.972303e-02  8.759398e-02          0.1   0
## 5580          -3.848055e-02 -1.355607e-01          0.0   0
## 5581           9.203840e-02  1.760329e-01          0.3   0
## 5582           1.776252e-04 -1.898915e-02          0.0   0
## 5583           4.581929e-02  1.649501e-01          0.1   1
## 5584           1.728540e-02  3.137931e-01          0.4   1
## 5585          -4.075754e-02 -4.187438e-02         -0.1   1
## 5586          -3.379713e-02 -2.317009e-01         -0.2   1
## 5587           4.151672e-02  1.698873e-01          0.2   1
## 5588           2.472456e-03  4.913066e-02          0.1   1
## 5589          -3.712656e-02 -3.991714e-02         -0.1   0
## 5590          -1.740999e-02  7.142857e-02          0.1   1
## 5591           5.284690e-02  4.492732e-01          0.6   1
## 5592           4.097423e-02 -2.784091e-01         -0.4   0
## 5593          -1.905512e-02 -6.610922e-02          0.1   0
## 5594           1.256668e-02 -2.552553e-02          0.0   1
## 5595           5.431287e-02  9.998110e-02         -0.1   1
## 5596           2.203410e-02  5.124824e-02          0.1   1
## 5597           4.074864e-02  3.961580e-02          0.0   1
## 5598           6.606391e-02  1.271013e-01         -0.2   1
## 5599          -4.139265e-03  2.121015e-01          0.6   0
## 5600           3.659345e-03  1.162723e-01         -0.1   1
## 5601           5.050588e-02  2.238676e-01          0.3   1
## 5602           7.620850e-02  1.157755e-01          0.1   1
## 5603          -1.633396e-02  4.563410e-02         -0.2   1
## 5604          -8.151769e-02 -3.340492e-01         -0.4   1
## 5605          -4.907881e-02 -1.214575e-02          0.0   0
## 5606           2.572716e-03 -5.833333e-02         -0.5   1
## 5607           1.012590e-02  9.436285e-02          0.4   1
## 5608           1.478017e-02  1.224239e-01          0.2   1
## 5609           4.785515e-02  2.456701e-01          0.4   1
## 5610           1.842598e-02 -1.344421e-01         -0.1   0
## 5611          -2.858571e-02  4.786016e-02          0.0   0
## 5612          -3.601175e-02 -2.029304e-01         -0.2   0
## 5613          -1.162182e-02 -2.652856e-02         -0.1   1
## 5614          -2.045987e-02 -4.957010e-02          0.2   0
## 5615          -3.911048e-02 -7.401367e-02          0.0   0
## 5616           3.361501e-02  1.328467e-01          0.3   0
```

```
## 5617           5.392475e-02  3.764886e-01        0.5   0
## 5618           9.086824e-02  2.639980e-01        0.5   1
## 5619          -7.560608e-02 -4.196332e-01       -0.5   0
## 5620           4.426332e-02  3.529944e-01        0.6   1
## 5621           3.468583e-04  1.533019e-02       -0.2   1
## 5622          -2.915947e-02 -1.910878e-01       -0.1   0
## 5623           4.813187e-02  2.961928e-01        0.4   1
## 5624           8.392583e-02  8.214286e-02        0.2   1
## 5625          -3.808790e-02  7.578300e-02        0.2   1
## 5626           3.440456e-02  5.585914e-02       -0.2   1
## 5627          -2.126149e-02  7.264592e-02        0.2   0
## 5628           4.859513e-02  6.394161e-02        0.1   1
## 5629          -2.810448e-02  3.591725e-02        0.3   1
## 5630          -4.749792e-02 -1.347388e-01       -0.2   0
## 5631           9.432986e-02  2.940542e-01        0.3   1
## 5632          -3.852490e-02 -2.992171e-01       -0.4   0
## 5633           1.080083e-02  1.164693e-01        0.1   1
## 5634           4.956082e-02  9.433962e-04       -0.1   1
## 5635          -3.803518e-02 -8.000000e-02       -0.2   0
## 5636          -1.628216e-02 -1.187330e-01       -0.2   0
## 5637          -9.552643e-03 -4.695652e-02       -0.1   1
## 5638          -7.404414e-02 -1.324706e-01       -0.1   1
## 5639          -3.612368e-02 -2.843035e-01       -0.4   0
## 5640           4.949741e-02 -1.279173e-01       -0.3   1
## 5641          -1.690876e-02 -1.587080e-01       -0.1   0
## 5642           2.442049e-02 -1.718785e-02       -0.1   0
## 5643           3.673762e-03 -1.625403e-01       -0.1   0
## 5644           9.763020e-02  7.942576e-02        0.0   0
## 5645           3.259064e-02  9.714923e-03        0.0   1
## 5646           5.019843e-02  2.209756e-01        0.4   1
## 5647           5.487822e-02  2.250543e-01        0.2   1
## 5648           1.833545e-02 -4.347826e-03       -0.2   0
## 5649          -6.577947e-02 -2.750000e-01       -0.1   0
## 5650           2.183488e-02  1.080454e-01        0.0   1
## 5651          -1.031831e-02 -7.653689e-02        0.1   0
## 5652           1.216005e-02 -4.092027e-02       -0.2   0
## 5653          -3.756360e-02 -1.506024e-01       -0.6   0
## 5654           1.208231e-02 -2.965261e-02       -0.2   1
## 5655          -5.687118e-02 -6.650246e-02        0.2   0
## 5656          -3.637716e-02 -5.256065e-02       -0.2   1
## 5657          -6.734980e-02 -1.117110e-01        0.1   0
## 5658          -1.332693e-01 -2.877398e-01       -0.3   0
## 5659           4.306990e-05  1.065563e-01        0.4   1
## 5660          -1.514563e-02 -5.376386e-02       -0.1   1
## 5661           3.884358e-02  8.333333e-02        0.2   1
## 5662           9.622358e-03  1.161616e-01        0.1   0
## 5663          -3.676386e-02 -1.546499e-01       -0.1   0
## 5664          -6.592572e-02 -1.371748e-01       -0.2   0
## 5665           5.200741e-02  2.565552e-02        0.1   1
## 5666          -1.013003e-01 -4.415158e-01       -0.5   0
## 5667          -2.284909e-02 -2.090142e-01       -0.4   0
## 5668           4.817543e-02  1.123272e-01       -0.1   1
## 5669           2.463455e-02  7.218935e-03       -0.1   1
## 5670           1.233626e-02 -5.851169e-02        0.0   1
## 5671           2.641821e-02  1.246946e-01        0.3   0
## 5672           2.667759e-02  1.155306e-01        0.5   1
## 5673           8.013851e-02  2.619220e-01        0.4   1
## 5674          -7.275193e-02 -9.833244e-02       -0.1   1
```

```
## 5675       5.296166e-02  1.287001e-04        -0.1   1
## 5676      -6.596902e-02 -1.792427e-01        -0.1   0
## 5677      -3.980858e-02 -8.170296e-02        -0.2   0
## 5678      -1.421459e-02 -3.775241e-02         0.0   0
## 5679       5.064575e-04  6.894491e-02        -0.1   0
## 5680       4.121797e-02  3.791667e-01         0.4   1
## 5681       6.445421e-02  1.820610e-01         0.2   1
## 5682       1.216817e-02  3.331013e-02         0.1   1
## 5683       2.853049e-02  2.283951e-01         0.3   1
## 5684       6.781746e-02  1.269366e-01         0.2   0
## 5685      -3.769008e-02 -1.423259e-01        -0.2   0
## 5686      -1.702473e-02 -1.118551e-01        -0.1   0
## 5687       8.239759e-03  7.482224e-02         0.1   0
## 5688       1.661510e-02  3.218440e-01         0.2   1
## 5689       6.247854e-02  1.825848e-01         0.2   1
## 5690      -2.720640e-02 -2.435725e-01        -0.3   0
## 5691       1.017192e-02 -8.369408e-04         0.0   1
## 5692       1.968948e-02  2.882144e-01         0.3   1
## 5693      -5.179868e-02 -6.781944e-02         0.0   1
## 5694       1.138394e-02 -1.650270e-01        -0.1   0
## 5695      -1.216120e-02 -8.773811e-02         0.0   0
## 5696      -2.132774e-02  5.656109e-03         0.1   0
## 5697       1.049949e-01  1.454157e-01        -0.1   1
## 5698      -1.075301e-02 -1.081841e-01        -0.5   1
## 5699       3.968146e-02  1.745885e-01         0.2   1
## 5700      -4.209363e-02 -8.675214e-02        -0.2   1
## 5701      -4.539757e-02  1.851852e-02         0.3   1
## 5702      -2.759646e-02 -8.055077e-02        -0.5   0
## 5703      -7.246885e-02 -7.936508e-03        -0.1   0
## 5704      -1.924902e-02 -7.119666e-02         0.1   0
## 5705      -1.695405e-02 -1.013825e-01         0.2   1
## 5706      -9.183855e-03  1.681159e-01        -0.1   1
## 5707      -2.203542e-02 -3.703704e-02        -0.1   0
## 5708       3.473151e-02  1.982111e-01         0.0   0
## 5709      -5.508759e-02 -1.375000e-01         0.0   0
## 5710       4.443409e-02  1.032202e-01         0.1   1
## 5711      -1.798729e-02 -5.775470e-02         0.1   1
## 5712       9.381515e-03  2.591973e-02         0.1   1
## 5713       5.549634e-02 -8.039579e-03        -0.4   0
## 5714      -4.940407e-02 -4.962406e-02         0.0   0
## 5715      -6.118071e-02 -1.180680e-01        -0.2   1
## 5716      -6.333255e-03  1.705653e-01         0.0   0
## 5717      -1.157118e-02 -1.071429e-01         0.0   0
## 5718       1.965605e-02  1.356516e-01         0.3   1
## 5719      -1.577688e-02  7.226436e-02         0.4   0
## 5720       3.241586e-02  2.884201e-02         0.2   1
## 5721       2.194619e-02 -1.388274e-01         0.1   1
## 5722      -4.044147e-02 -6.666667e-02        -0.4   0
## 5723       1.481696e-02  1.888694e-01         0.2   0
## 5724       1.009420e-01  3.417208e-01         0.4   1
## 5725      -4.735035e-02 -4.421132e-01        -0.3   0
## 5726       1.029274e-01  5.813953e-02         0.2   1
## 5727      -3.506328e-02 -1.173909e-01        -0.3   1
## 5728       6.414510e-02  1.615435e-01         0.1   1
## 5729       7.848497e-03  5.222222e-02        -0.1   0
## 5730       4.916325e-02 -4.219813e-02         0.3   1
## 5731      -4.510887e-02 -1.536452e-01        -0.3   0
## 5732      -3.917334e-02 -6.818182e-02        -0.1   1
```

```
## 5733          -8.938176e-03 -5.767429e-02              0.3   1
## 5734          -2.947022e-03 -8.040782e-02             -0.1   0
## 5735           1.141695e-02  2.729885e-02              0.1   1
## 5736          -4.211795e-02 -2.756892e-01             -0.1   1
## 5737           4.922193e-02  2.857143e-01              0.1   1
## 5738           3.490489e-02 -5.800654e-02             -0.2   0
## 5739           7.914592e-02  3.470588e-01              0.3   1
## 5740           1.385429e-02  1.405352e-01              0.0   1
## 5741           8.305681e-02  1.371969e-01              0.2   1
## 5742           5.304375e-02  2.687468e-01              0.3   1
## 5743           9.696851e-02  3.630530e-01              0.5   1
## 5744           6.035751e-03  2.015310e-02              0.0   1
## 5745          -1.137520e-01 -2.564103e-01             -0.2   0
## 5746          -3.573836e-02 -7.407407e-02             -0.2   1
## 5747           4.349352e-02  1.161765e-01              0.0   1
## 5748          -3.393679e-02 -9.746479e-02              0.1   1
## 5749          -3.170138e-02 -1.194805e-01             -0.3   0
## 5750          -4.840587e-02 -8.460942e-02              0.0   0
## 5751          -8.005066e-02  2.080378e-02              0.0   1
## 5752           3.730324e-02  1.390288e-01              0.0   1
## 5753           4.525865e-03 -2.177285e-01             -0.2   0
## 5754          -2.786507e-02 -1.475806e-01             -0.3   0
## 5755          -2.230415e-02 -2.635338e-02             -0.1   0
## 5756           4.046362e-02  1.486486e-01              0.1   0
## 5757          -2.877530e-03 -9.570242e-03              0.1   1
## 5758          -9.937588e-03 -5.228830e-04              0.0   0
## 5759          -5.767001e-02 -2.314815e-01             -0.1   0
## 5760           7.144145e-02  3.880837e-01              0.5   1
## 5761           1.611154e-02 -8.766234e-02              0.3   0
## 5762           1.137080e-02  4.310577e-02              0.0   1
## 5763          -2.808874e-02 -6.036410e-02             -0.1   0
## 5764          -2.670696e-03  6.516940e-02              0.0   0
## 5765          -4.189966e-02 -1.385668e-01             -0.3   1
## 5766           2.824494e-03  1.024752e-01              0.2   1
## 5767          -5.028038e-02 -1.295687e-01              0.0   0
## 5768           2.590720e-02  1.262606e-01              0.1   0
## 5769          -7.442341e-02 -1.764857e-01             -0.1   0
## 5770           2.921070e-02  1.762963e-01              0.1   1
## 5771           4.056067e-02  4.389547e-02              0.0   0
## 5772           1.340136e-01  2.196474e-01              0.3   1
## 5773          -3.463925e-02 -5.263158e-02             -0.2   0
## 5774           3.764074e-02  1.178838e-01              0.0   1
## 5775           3.787294e-02  2.111111e-01              0.3   0
## 5776           6.327750e-02  3.342911e-01              0.5   1
## 5777           6.517283e-03 -8.746426e-02              0.1   0
## 5778           1.268898e-03  8.239538e-02              0.4   0
## 5779           1.138254e-02  3.488372e-02              0.1   1
## 5780          -4.988295e-02  1.604278e-02             -0.1   1
## 5781          -1.817883e-02 -1.037736e-01             -0.1   1
## 5782           9.312401e-02  1.395634e-01              0.3   0
## 5783           6.535919e-03 -6.439992e-02              0.0   0
## 5784           2.415826e-03  9.417161e-02              0.1   1
## 5785           3.573290e-02  1.847399e-01              0.4   0
## 5786          -3.261774e-02 -4.454314e-02              0.0   0
## 5787          -2.046403e-02 -2.666667e-02              0.1   0
## 5788          -4.900352e-02 -2.865410e-01             -0.3   0
## 5789          -3.278105e-03  1.201570e-02             -0.1   0
## 5790          -2.893720e-02 -2.191558e-01              0.0   0
```

```
## 5791         -6.949641e-02 -3.922895e-01          -0.4   0
## 5792          4.843663e-02  1.826313e-01           0.2   1
## 5793          1.842084e-02 -1.050254e-02          -0.1   0
## 5794         -2.623262e-02 -1.044200e-01          -0.4   1
## 5795          4.045860e-02  1.205624e-01           0.1   0
## 5796         -2.448921e-02 -2.890625e-01          -0.4   0
## 5797          9.875648e-03 -7.665805e-02           0.2   1
## 5798          2.354580e-02  1.494886e-01           0.1   1
## 5799          2.844546e-02  8.963494e-03          -0.1   0
## 5800          3.463978e-03 -1.408468e-01           0.0   1
## 5801          4.110786e-02  2.107143e-01           0.3   1
## 5802          5.729163e-02  2.011589e-01           0.2   0
## 5803          5.799529e-02  6.525232e-02          -0.3   1
## 5804         -2.483829e-02 -7.670455e-02          -0.3   1
## 5805         -9.068126e-02 -3.519380e-01          -0.4   0
## 5806          9.022276e-02  3.099380e-01           0.3   1
## 5807          1.625984e-03 -1.801338e-03           0.0   0
## 5808          9.440267e-03 -1.703081e-01          -0.3   1
## 5809         -3.197821e-03  5.483078e-02           0.2   0
## 5810          2.947626e-02  1.820513e-01           0.1   1
## 5811         -4.804263e-02 -2.937447e-01          -0.3   0
## 5812          9.370053e-02  1.491576e-01           0.0   1
## 5813         -6.956594e-02 -2.755853e-01          -0.6   0
## 5814         -1.167022e-01 -4.042342e-01          -0.3   0
## 5815          1.170383e-02  1.093605e-01           0.1   0
## 5816         -2.190727e-02 -3.510678e-02          -0.2   0
## 5817         -4.204432e-03 -2.157252e-01          -0.5   0
## 5818         -9.211535e-02 -4.499274e-01          -0.4   0
## 5819         -1.806910e-02 -1.026050e-01          -0.1   0
## 5820          3.468354e-02  8.749146e-02          -0.1   0
## 5821         -1.774889e-02  4.000000e-02          -0.2   1
## 5822         -1.935797e-02  8.695652e-03          -0.2   0
## 5823          5.115315e-02  5.389358e-03           0.0   1
## 5824         -2.165774e-02 -1.016494e-02           0.0   0
## 5825          5.236558e-02  1.581197e-01           0.1   1
## 5826          3.445279e-04 -7.111529e-02          -0.1   1
## 5827          1.279711e-02 -1.102959e-01          -0.2   1
## 5828         -8.505152e-03  1.645176e-02          -0.3   0
## 5829         -5.663600e-02 -1.077421e-01          -0.4   1
## 5830         -3.407520e-02 -1.912528e-02          -0.1   1
## 5831          3.801520e-02  1.139241e-01           0.1   0
## 5832          4.877132e-02  1.767640e-01           0.1   0
## 5833         -4.271923e-02 -1.311426e-01           0.4   0
## 5834         -1.337326e-02  1.957856e-02          -0.3   0
## 5835          2.904246e-02 -4.094412e-02           0.1   1
## 5836         -1.372877e-02  1.739130e-01           0.4   1
## 5837         -1.919021e-02 -1.375000e-01          -0.3   0
## 5838          1.488799e-02 -1.116891e-01          -0.2   1
## 5839         -6.447400e-02 -1.775805e-01          -0.1   0
## 5840         -4.009109e-02 -3.771739e-01          -0.3   0
## 5841         -5.430001e-02  1.609195e-01           0.1   0
## 5842          1.938555e-02 -1.177245e-01           0.0   0
## 5843          5.888942e-03  1.801728e-01           0.0   1
## 5844         -4.526690e-02 -1.541479e-01           0.0   0
## 5845         -6.080378e-02 -2.363891e-01          -0.2   0
## 5846          5.578725e-02  2.183442e-01           0.3   1
## 5847         -6.396340e-02 -2.701585e-01          -0.1   0
## 5848         -9.140670e-02 -3.590201e-01          -0.4   0
```

```
## 5849          -4.945130e-02 -1.622004e-01          -0.5   1
## 5850           8.644926e-02  1.751152e-01           0.0   1
## 5851           5.245984e-03  2.835605e-01           0.4   0
## 5852          -9.317096e-03 -1.648334e-01          -0.2   0
## 5853          -5.323628e-02  2.329238e-01           0.2   0
## 5854          -4.536301e-02 -2.923794e-02           0.0   0
## 5855          -1.190085e-02 -2.304492e-02          -0.1   0
## 5856          -1.530193e-02 -1.167103e-01          -0.2   0
## 5857           2.617069e-02  2.675501e-01           0.7   0
## 5858           4.123456e-02  5.697660e-02          -0.1   0
## 5859          -6.349232e-02 -1.037996e-01          -0.3   1
## 5860          -5.084172e-02  6.216931e-02          -0.1   0
## 5861          -9.163559e-03  7.633120e-02           0.1   1
## 5862           1.444208e-02  9.183673e-02           0.3   0
## 5863          -9.118057e-02 -8.022652e-03          -0.1   0
## 5864           1.002306e-02  2.722812e-01           0.3   1
## 5865          -5.142007e-02  1.349206e-01           0.2   1
## 5866          -3.706002e-02 -2.367958e-01          -0.4   0
## 5867           2.708713e-02 -5.244755e-02          -0.3   1
## 5868           1.250507e-02  7.260101e-02           0.2   0
## 5869          -1.565922e-02 -6.780318e-02           0.0   0
## 5870           3.336025e-02  2.040708e-01           0.5   1
## 5871          -1.782835e-02 -8.771142e-02          -0.2   0
## 5872          -1.497784e-02  1.219874e-01           0.0   1
## 5873           5.217304e-02  1.984127e-01           0.3   1
## 5874          -3.161899e-03 -8.989952e-02          -0.1   0
## 5875           2.592177e-02  3.003876e-02           0.2   1
## 5876          -1.058677e-02  1.041667e-01           0.2   0
## 5877          -1.998776e-02 -7.809331e-02          -0.1   0
## 5878          -2.190178e-02  6.499203e-02           0.4   1
## 5879           1.105744e-03 -1.210654e-02           0.1   1
## 5880           3.223538e-02  1.994032e-01           0.1   1
## 5881           1.679232e-02  2.719156e-02          -0.1   1
## 5882           7.421413e-02  1.460980e-01           0.1   0
## 5883           3.359772e-02  3.202287e-01           0.2   1
## 5884          -2.053432e-02  4.159675e-02           0.3   1
## 5885           1.670974e-02 -4.426285e-02           0.1   1
## 5886          -4.205666e-03  6.129032e-02          -0.1   0
## 5887           4.484916e-02  1.817682e-01          -0.2   1
## 5888           6.306698e-04  5.862783e-02           0.0   0
## 5889           2.437816e-02  2.666667e-01           0.0   1
## 5890           3.386761e-02  1.125040e-01          -0.1   1
## 5891           2.770993e-02  4.544367e-01           0.6   1
## 5892           1.692173e-03  1.190476e-01          -0.1   0
## 5893          -1.489698e-02 -1.350000e-01          -0.1   0
## 5894           8.361471e-03 -6.666667e-02           0.0   1
## 5895          -3.137035e-02 -1.709486e-01           0.1   1
## 5896          -1.078762e-02 -1.507937e-01          -0.1   0
## 5897          -4.568649e-02  3.965517e-02          -0.5   0
## 5898          -1.371928e-02  7.172996e-02          -0.1   1
## 5899          -4.605316e-03  1.632544e-01           0.1   1
## 5900           3.766024e-02  7.947686e-02          -0.1   1
## 5901           2.405524e-02 -1.144788e-01          -0.4   0
## 5902           1.257517e-02  1.015474e-02           0.1   0
## 5903           6.016876e-02  1.072408e-01           0.1   0
## 5904          -9.268403e-02 -6.513410e-02           0.0   1
## 5905          -8.270481e-03  1.677037e-01           0.2   0
## 5906           1.567645e-02  1.267748e-01           0.0   1
```

```
## 5907         -4.143357e-02 -1.207314e-01        -0.1   0
## 5908         -7.688725e-02 -2.698301e-01        -0.5   0
## 5909          4.772717e-02  2.456017e-01         0.0   1
## 5910          5.561550e-02  8.217054e-02        -0.1   0
## 5911          5.860777e-03 -6.947332e-02        -0.2   1
## 5912          2.924915e-02  2.243070e-01         0.1   1
## 5913         -5.275875e-02 -6.818182e-02        -0.3   0
## 5914          7.090533e-03 -3.194444e-02        -0.1   0
## 5915          9.455777e-03 -6.074766e-02        -0.2   0
## 5916         -9.133007e-02 -4.113146e-01        -0.6   0
## 5917         -8.787438e-02 -2.538462e-01        -0.1   0
## 5918          4.904659e-02  1.341185e-01         0.1   0
## 5919          2.794159e-02  7.024648e-02        -0.1   0
## 5920          4.009382e-02  2.692239e-01         0.2   1
## 5921         -2.680740e-03  7.664783e-02        -0.1   0
## 5922          1.128353e-01  3.942308e-01         0.4   0
## 5923         -5.586072e-02 -2.070361e-01         0.0   1
## 5924         -1.825023e-02  7.974664e-02         0.0   1
## 5925          2.544460e-02  1.105964e-01         0.1   0
## 5926          6.972480e-03  1.365642e-01         0.2   0
## 5927          8.092449e-02  2.744138e-01         0.2   1
## 5928          4.022491e-02  1.321839e-01        -0.1   1
## 5929          2.315689e-02  1.065183e-01         0.1   0
## 5930          9.009315e-02  4.890351e-01         0.4   1
## 5931         -3.011838e-02 -6.250000e-02         0.0   0
## 5932          1.012074e-02  1.758893e-01         0.0   1
## 5933          8.754042e-02  2.587795e-01         0.1   1
## 5934         -4.109068e-03 -3.638861e-01        -0.2   1
## 5935         -4.572205e-02 -2.264286e-01        -0.3   0
## 5936          5.356807e-02  2.330483e-01         0.3   0
## 5937          2.363170e-02  3.200758e-01         0.2   1
## 5938          4.712066e-02  1.036431e-01         0.0   1
## 5939          1.845674e-02 -5.750000e-02        -0.3   1
## 5940          4.658046e-02  7.602339e-02        -0.4   1
## 5941         -4.037525e-02 -1.340388e-01         0.2   0
## 5942         -5.325402e-02 -9.793715e-02        -0.4   0
## 5943          5.515294e-03  1.224575e-02        -0.1   1
## 5944         -2.687848e-02 -5.062172e-02        -0.3   0
## 5945          3.093386e-02 -6.613757e-03         0.2   1
## 5946          4.009356e-03 -2.384503e-01        -0.3   0
## 5947         -4.951151e-02 -4.995005e-04         0.1   0
## 5948         -3.191141e-02 -7.093254e-02         0.0   0
## 5949         -9.919035e-02 -1.600000e-01        -0.5   1
## 5950          5.286873e-03 -8.064516e-02        -0.1   0
## 5951         -6.984003e-02 -7.692308e-02        -0.3   1
## 5952         -8.435757e-03 -5.062221e-02         0.0   1
## 5953          4.077537e-02  3.336809e-03        -0.2   1
## 5954          6.928623e-02  1.677419e-01         0.1   1
## 5955          4.056637e-02  1.155706e-01        -0.2   1
## 5956         -2.995672e-02 -8.528231e-02        -0.1   0
## 5957          3.157695e-02  1.000000e-01         0.2   0
## 5958         -4.068930e-02 -1.657534e-01        -0.2   0
## 5959          5.072687e-02  3.761990e-01         0.6   1
## 5960          8.120040e-02  1.985734e-01         0.3   0
## 5961          8.152811e-03  1.037830e-01         0.1   0
## 5962          2.059305e-04 -1.211686e-01        -0.1   0
## 5963          8.830643e-03  1.649073e-01         0.0   0
## 5964         -1.998673e-02 -7.773993e-03        -0.2   0
```

293

```
## 5965        5.123090e-03  1.712159e-01      -0.2   0
## 5966       -3.088461e-02 -7.071028e-02      -0.1   0
## 5967       -7.613218e-02 -2.048591e-01      -0.3   0
## 5968       -1.857192e-02 -1.155062e-02      -0.1   0
## 5969        2.437544e-02  1.062271e-01       0.1   0
## 5970       -6.687350e-02 -1.937500e-01       0.0   0
## 5971       -4.920138e-02 -3.454858e-01      -0.4   0
## 5972       -5.824883e-03 -8.079169e-02      -0.1   0
## 5973       -1.370969e-02  1.095890e-01       0.1   1
## 5974       -4.713195e-02 -8.541234e-02       0.0   0
## 5975        5.965087e-02  2.781040e-01       0.2   1
## 5976       -1.958285e-02 -2.090806e-02      -0.1   0
## 5977        1.913687e-02  1.058071e-01       0.0   1
## 5978        2.544134e-03  2.384738e-03      -0.1   0
## 5979       -2.573109e-02 -9.309758e-02      -0.3   0
## 5980       -4.787970e-02 -7.029960e-03      -0.2   0
## 5981       -1.258239e-02  1.106227e-02      -0.2   1
## 5982        6.583830e-03  5.412001e-02       0.2   0
## 5983       -6.768530e-03 -1.745585e-01      -0.4   0
## 5984       -5.969227e-02 -6.787429e-02      -0.2   1
## 5985       -5.309634e-02 -4.728836e-01      -0.4   0
## 5986        1.917332e-03 -2.599904e-02       0.1   1
## 5987        1.405453e-02 -2.036713e-02       0.2   1
## 5988       -1.202692e-02 -7.662835e-03       0.1   0
## 5989        1.657817e-02  1.275917e-02      -0.1   1
## 5990       -8.726616e-02 -2.648020e-01      -0.1   0
## 5991       -1.342294e-02 -3.881674e-01      -0.4   1
## 5992       -1.044742e-01 -2.671698e-01      -0.2   0
## 5993       -6.524595e-02 -6.065375e-02      -0.2   0
## 5994       -2.214087e-02 -1.171429e-01       0.0   0
## 5995        4.763025e-02  1.374735e-01       0.2   1
## 5996       -1.692497e-02  7.962963e-02      -0.2   0
## 5997        2.430847e-02  5.797101e-02       0.1   0
## 5998        8.749086e-02  3.080004e-01       0.2   1
## 5999       -7.148496e-02 -4.031039e-01      -0.6   0
## 6000       -1.148087e-01 -2.011467e-01      -0.3   1
## 6001       -3.751446e-02 -1.388889e-01      -0.4   0
## 6002       -3.367156e-02 -1.959972e-01      -0.2   0
## 6003        2.245486e-02 -1.105263e-01       0.0   1
## 6004       -1.659498e-02  1.691828e-01       0.6   1
## 6005       -2.471577e-02 -3.987703e-01      -0.2   0
## 6006       -1.296512e-02  8.120301e-02      -0.1   0
## 6007       -3.556224e-02 -1.344538e-01       0.0   0
## 6008        1.078679e-01  2.007979e-01       0.2   1
## 6009        7.307882e-03 -3.676471e-02       0.2   0
## 6010        4.608338e-03  1.035088e-01       0.0   1
## 6011       -6.854778e-02 -9.316770e-02      -0.1   1
## 6012       -4.485954e-02 -1.015393e-01      -0.2   0
## 6013       -9.137144e-02 -3.869826e-01      -0.7   0
## 6014       -1.300136e-02  6.250000e-02       0.3   0
## 6015       -1.705668e-02  1.962554e-02      -0.1   1
## 6016       -1.218442e-02 -1.639710e-01      -0.5   0
## 6017        2.170801e-02 -2.304251e-02      -0.1   0
## 6018       -6.398599e-03  1.472464e-01      -0.1   0
## 6019       -6.986899e-02 -2.899826e-01      -0.3   0
## 6020       -6.203075e-02 -2.412985e-01      -0.2   0
## 6021        2.569356e-02  2.080808e-01      -0.1   0
## 6022       -5.934720e-02 -1.784470e-01      -0.1   0
```

```
## 6023          -1.137080e-03 -1.359208e-01          -0.1   0
## 6024           1.097943e-02  9.668616e-02           0.2   1
## 6025           4.215764e-02  3.477547e-01           0.6   1
## 6026           1.917126e-02  1.956522e-01           0.1   1
## 6027           5.615433e-02  1.997543e-01           0.3   0
## 6028          -3.609904e-02 -9.776891e-02          -0.1   1
## 6029           5.206155e-02  1.611793e-01           0.6   1
## 6030           1.398324e-01  3.270903e-01           0.3   1
## 6031           4.979322e-02  1.123518e-01           0.0   1
## 6032           3.844085e-02 -1.446360e-01           0.1   1
## 6033          -2.208173e-02  6.006494e-02           0.2   1
## 6034          -1.501905e-02 -1.405378e-01          -0.2   0
## 6035          -1.194178e-01 -3.954887e-01          -0.1   0
## 6036           5.328452e-02  4.089126e-01           0.5   1
## 6037          -2.221708e-02  6.088137e-04           0.1   1
## 6038          -5.937145e-02 -1.278195e-01          -0.4   0
## 6039           7.609498e-02  2.822932e-01           0.1   1
## 6040          -7.673246e-02 -2.868421e-01          -0.4   0
## 6041          -2.733863e-03  1.228643e-01           0.0   1
## 6042           4.478786e-02  1.760096e-01           0.1   1
## 6043          -8.648366e-02 -3.411255e-01          -0.6   0
## 6044           7.313273e-02  4.496454e-01           0.5   1
## 6045          -5.608266e-02 -1.695965e-01          -0.3   0
## 6046           4.449697e-02  4.292929e-01           0.4   0
## 6047           2.321620e-02  1.602306e-01           0.5   1
## 6048           5.273220e-02  3.189103e-01           0.2   1
## 6049           9.437312e-02  1.507353e-01           0.4   1
## 6050          -1.186985e-02 -1.630968e-01          -0.1   0
## 6051          -4.571111e-02 -2.159879e-01          -0.2   0
## 6052           3.780828e-02  3.158251e-01           0.6   1
## 6053          -2.271355e-02  4.600694e-02           0.2   0
## 6054          -5.872608e-03  7.048780e-02           0.1   1
## 6055          -3.727126e-02 -3.168778e-01          -0.3   0
## 6056           9.695632e-03  2.812610e-01           0.0   1
## 6057           2.293639e-02  2.805234e-01           0.2   1
## 6058           1.959521e-03  3.115871e-02          -0.2   0
## 6059          -9.440497e-02 -3.634380e-01          -0.4   0
## 6060          -9.978161e-02 -3.299504e-01          -0.2   0
## 6061          -1.771125e-03  7.435897e-03           0.0   1
## 6062           6.929476e-02  2.510546e-01           0.3   1
## 6063           9.059678e-02  2.241379e-01          -0.1   1
## 6064          -1.899650e-02  1.553990e-01           0.0   1
## 6065           1.010746e-01  2.925815e-01           0.1   1
## 6066           4.069417e-02  3.290937e-01           0.3   1
## 6067          -2.116580e-02  6.147876e-02          -0.1   1
## 6068          -3.959808e-02  6.867390e-02          -0.3   0
## 6069          -5.170003e-02 -1.464127e-01          -0.2   0
## 6070          -2.736127e-02 -2.179642e-01          -0.2   0
## 6071           1.495161e-02  3.466387e-01           0.6   1
## 6072           3.108871e-02 -6.353004e-02           0.0   0
## 6073          -3.139247e-02 -1.095830e-01          -0.2   0
## 6074          -5.608523e-02 -2.957533e-01          -0.5   1
## 6075          -2.823477e-02 -1.258845e-01           0.1   1
## 6076           1.658591e-02  7.952381e-02          -0.1   0
## 6077           2.460666e-02  2.312500e-01           0.1   1
## 6078          -1.056385e-01 -3.480475e-01          -0.4   0
## 6079          -4.533858e-02 -1.753968e-01          -0.2   0
## 6080          -5.063017e-02 -3.349876e-02           0.1   0
```

295

```
## 6081          9.347381e-02  3.443396e-01          0.1   1
## 6082          2.574467e-02  2.091948e-01          0.3   1
## 6083          7.746682e-03  1.519916e-01          0.0   1
## 6084         -4.787151e-02 -1.848101e-01         -0.1   0
## 6085          2.247819e-03  2.136814e-02         -0.2   1
## 6086         -1.546965e-03  6.691381e-02          0.2   0
## 6087          4.153681e-02  1.729160e-01          0.1   1
## 6088         -1.343739e-02 -3.755133e-02          0.1   0
## 6089          3.548786e-03  2.010026e-01          0.3   1
## 6090          8.638768e-03 -1.592616e-01         -0.1   0
## 6091         -1.591618e-03 -1.079892e-01         -0.2   0
## 6092          3.709832e-02  3.102227e-01          0.4   1
## 6093          3.993022e-02  1.436667e-01          0.1   1
## 6094          1.079516e-02  8.216740e-02          0.0   1
## 6095          5.250411e-02  6.189624e-02          0.0   0
## 6096         -1.426176e-02 -8.365508e-02          0.1   0
## 6097          2.752705e-02  9.686534e-02          0.2   1
## 6098          3.557064e-02 -1.138520e-02          0.0   0
## 6099          3.639171e-02  2.423077e-01          0.0   1
## 6100          5.836937e-02  1.218391e-01          0.2   0
## 6101         -7.528728e-04 -4.050568e-02          0.0   0
## 6102          4.232208e-02 -3.409992e-02          0.1   1
## 6103          6.386869e-02  1.957529e-01          0.2   1
## 6104         -2.413726e-02 -4.321192e-01         -0.3   0
## 6105          8.405860e-02  2.104125e-01          0.2   1
## 6106          2.595985e-02 -4.235657e-02         -0.3   0
## 6107          6.934656e-02  3.395683e-01          0.4   1
## 6108          6.610139e-02  5.376344e-03          0.0   1
## 6109          1.271186e-02 -3.296703e-02          0.2   0
## 6110          6.124188e-02  8.540497e-02          0.1   0
## 6111         -2.242446e-02 -1.185065e-01         -0.4   0
## 6112         -7.994625e-02 -6.637083e-02         -0.1   1
## 6113          1.446918e-02 -2.880845e-02         -0.1   0
## 6114         -6.406313e-03  1.785714e-01          0.0   1
## 6115         -2.795191e-02 -1.005522e-01         -0.3   1
## 6116          4.269205e-02  9.393939e-02         -0.3   1
## 6117         -4.063955e-02 -1.335404e-01          0.0   0
## 6118          4.443173e-03 -7.361309e-02         -0.1   1
## 6119          6.123234e-02  4.245139e-01          0.4   1
## 6120         -3.384731e-02 -1.707071e-01          0.1   0
## 6121          3.696242e-02  3.065693e-02         -0.1   1
## 6122         -1.000621e-03  1.390403e-01         -0.3   0
## 6123         -6.828503e-02 -2.092852e-01         -0.2   1
## 6124          2.364416e-02 -2.486987e-02          0.1   1
## 6125          1.296264e-02 -1.698620e-01         -0.1   0
## 6126          2.210385e-03 -1.208388e-01         -0.4   0
## 6127          6.084367e-02  2.224080e-01         -0.1   0
## 6128         -8.577274e-02 -1.939504e-02          0.1   1
## 6129         -1.273111e-02 -4.251012e-02          0.0   1
## 6130         -4.155410e-02 -5.904818e-02          0.1   0
## 6131          6.352119e-02  5.084746e-02          0.1   1
## 6132         -3.575171e-02  6.092437e-02         -0.2   0
## 6133         -2.778612e-02 -1.168561e-01         -0.1   0
## 6134         -5.085173e-02 -2.357470e-01         -0.1   1
## 6135          2.607334e-02  4.359774e-02         -0.1   0
## 6136         -2.026548e-02  4.125178e-02          0.1   0
## 6137         -4.572001e-03 -1.515152e-01         -0.3   1
## 6138          1.307675e-02  2.314516e-01          0.2   0
```

```
## 6139           4.267636e-03 -4.234157e-02          -0.1   0
## 6140           8.498115e-02  4.963636e-01           0.3   1
## 6141          -8.100705e-02 -2.907919e-01          -0.2   0
## 6142           2.968293e-02  1.151029e-01           0.3   1
## 6143           4.445430e-02  1.717974e-01           0.0   1
## 6144           2.043755e-02  1.190154e-01          -0.2   1
## 6145          -2.361855e-02 -1.524909e-01          -0.1   1
## 6146           8.038751e-03 -5.329593e-02          -0.1   1
## 6147          -1.321791e-02 -1.423395e-01           0.1   0
## 6148           8.277261e-02  1.770751e-01           0.4   1
## 6149          -1.246215e-02 -4.873853e-02          -0.1   1
## 6150           4.367488e-02  1.825240e-01           0.2   1
## 6151          -6.833909e-02 -3.830846e-01          -0.2   0
## 6152          -1.330360e-02 -4.721945e-02           0.0   0
## 6153          -5.981804e-02 -4.612069e-02          -0.1   1
## 6154          -1.809067e-02  5.428571e-02           0.1   0
## 6155           1.230384e-02  1.192505e-01           0.2   1
## 6156           6.353660e-02  1.957291e-01           0.2   1
## 6157           8.150276e-02  4.670199e-01           0.4   0
## 6158          -1.907340e-02 -9.678501e-02           0.1   0
## 6159           9.823151e-02  3.720044e-01           0.3   1
## 6160          -1.245284e-02 -2.094158e-02          -0.1   0
## 6161           3.671837e-02  2.318741e-01           0.1   1
## 6162          -3.099071e-03 -1.709337e-01          -0.4   1
## 6163           2.159865e-02 -1.828814e-02          -0.2   1
## 6164           5.553910e-04  1.975483e-01           0.1   1
## 6165          -5.611423e-02 -1.797535e-01          -0.3   0
## 6166           2.873865e-02  4.786273e-02           0.0   1
## 6167          -3.255628e-03 -4.466676e-02           0.3   1
## 6168          -6.078756e-02 -1.607656e-01          -0.6   1
## 6169          -4.350314e-02 -1.798848e-01           0.0   0
## 6170          -2.736193e-02 -2.741703e-01          -0.2   1
## 6171           3.539831e-02  5.404040e-02           0.0   1
## 6172          -4.698216e-02  0.000000e+00           0.0   1
## 6173           1.979105e-02 -8.222812e-02           0.2   0
## 6174          -3.505500e-02 -1.650943e-02          -0.2   1
## 6175          -4.703975e-02 -2.979775e-01          -0.1   1
## 6176           4.572507e-02  4.945255e-02           0.3   0
## 6177          -1.934233e-02  2.713178e-01           0.1   1
## 6178           6.742395e-02  2.500000e-01           0.2   0
## 6179           2.786490e-02  1.961279e-01          -0.4   1
## 6180          -2.353988e-02 -2.241357e-02           0.2   1
## 6181           4.423172e-02  1.512097e-01          -0.2   0
## 6182          -1.578677e-02  5.143792e-03           0.2   0
## 6183           6.190425e-02  1.329577e-01           0.0   1
## 6184          -4.163530e-02 -9.874753e-02           0.0   0
## 6185           5.169735e-03  7.291667e-02           0.0   1
## 6186           4.169437e-02  1.191806e-01           0.6   1
## 6187           5.040103e-03  7.357860e-02           0.2   1
## 6188           6.001704e-02  3.313492e-01           0.4   0
## 6189          -3.664795e-03 -1.920250e-01          -0.3   1
## 6190           1.144246e-01  2.409282e-01           0.0   1
## 6191          -9.552101e-02 -4.000000e-01          -0.3   0
## 6192          -2.836706e-03  8.294931e-03          -0.3   0
## 6193           1.079759e-02 -2.052632e-02          -0.4   0
## 6194           7.538148e-03 -9.597523e-03          -0.1   0
## 6195           2.622470e-02  6.140351e-02           0.1   1
## 6196           5.585816e-02  4.424242e-02           0.2   1
```

```
## 6197          4.332347e-02  7.565712e-02              0.2   1
## 6198          6.772010e-03  3.962963e-02              0.1   1
## 6199         -5.893550e-02 -1.582456e-01             -0.1   1
## 6200          7.924348e-02  3.971641e-01              0.6   1
## 6201          4.957719e-02 -3.846154e-02              0.0   1
## 6202          3.361383e-02  6.648854e-02              0.1   1
## 6203         -1.801231e-03  1.220311e-01              0.5   1
## 6204         -4.139205e-02 -2.266667e-01              0.0   0
## 6205         -1.672415e-02 -2.352172e-01              0.1   1
## 6206          4.796760e-02 -3.382353e-02              0.1   0
## 6207          3.248456e-02  8.111888e-02              0.2   1
## 6208          9.084975e-02  3.120155e-01              0.0   1
## 6209         -9.365657e-02 -5.411950e-01             -0.5   0
## 6210         -2.390435e-02  5.192982e-02              0.1   0
## 6211         -8.015331e-02 -1.776144e-01              0.2   0
## 6212          9.830214e-02  4.112412e-01              0.2   1
## 6213          2.358960e-02  1.039331e-01              0.2   0
## 6214         -8.047370e-02 -1.777068e-01             -0.1   0
## 6215         -3.483437e-03  1.252137e-01              0.3   1
## 6216          6.955143e-03  2.086466e-01              0.1   1
## 6217          8.474003e-03  1.200000e-01             -0.2   0
## 6218         -3.473044e-02 -2.529412e-01             -0.2   0
## 6219         -6.332262e-02 -1.473988e-01              0.1   0
## 6220          3.334636e-02  2.557090e-02              0.2   0
## 6221          8.292641e-02  2.954256e-01              0.1   0
## 6222         -4.057083e-02 -4.847425e-02              0.1   0
## 6223          1.895402e-02  1.213905e-01              0.4   1
## 6224         -4.609703e-02 -7.799672e-02              0.1   1
## 6225         -2.969390e-02 -2.616893e-01              0.1   0
## 6226          1.484537e-04  6.684492e-02              0.1   0
## 6227         -5.525653e-02 -7.061791e-02             -0.1   0
## 6228          6.400038e-02  2.020804e-01              0.2   1
## 6229         -6.371395e-02 -2.747888e-01             -0.1   0
## 6230          1.011627e-02 -5.970443e-02              0.0   1
## 6231         -4.162534e-02 -2.554087e-01             -0.2   0
## 6232          4.910681e-02  2.074432e-01              0.0   1
## 6233         -2.935248e-02 -1.898734e-02              0.1   0
## 6234          3.539863e-02  1.768049e-01              0.1   1
## 6235          3.285021e-02  2.086357e-01              0.0   1
## 6236         -1.563759e-02  1.324042e-01              0.2   0
## 6237         -7.257058e-02 -1.401639e-01             -0.1   0
## 6238         -5.610006e-02 -1.316869e-01             -0.3   1
## 6239          3.592974e-02  4.374760e-02             -0.1   0
## 6240          1.534417e-03  6.349206e-02             -0.1   1
## 6241          1.878037e-02  1.719644e-01              0.5   1
## 6242         -3.630395e-02 -1.753247e-01             -0.1   1
## 6243         -7.962698e-02 -1.805920e-01             -0.1   0
## 6244          1.951547e-02 -1.506079e-01             -0.3   1
## 6245          5.175304e-03  1.069519e-02              0.0   1
## 6246         -2.032595e-02 -1.293996e-02             -0.4   0
## 6247         -1.095886e-02 -4.023973e-02              0.0   0
## 6248          8.208647e-03 -2.499550e-02             -0.1   1
## 6249          6.827793e-02  2.548911e-01              0.4   1
## 6250         -4.882100e-02 -8.282104e-02              0.0   0
## 6251          8.762956e-03 -1.113917e-01             -0.1   0
## 6252         -3.142518e-03 -3.855975e-02              0.2   1
## 6253          3.740954e-02  3.205128e-02             -0.1   1
## 6254         -3.318808e-03 -1.731719e-01             -0.3   0
```

```
## 6255          -2.265609e-02 -2.291667e-02          0.0   1
## 6256          -3.579722e-02 -2.310231e-02          0.1   0
## 6257           6.081415e-02  0.000000e+00          0.1   1
## 6258          -6.706963e-04 -1.394737e-01         -0.1   0
## 6259          -6.982405e-02 -3.634119e-01         -0.1   0
## 6260          -4.910956e-02 -3.205128e-02         -0.4   0
## 6261           7.076226e-02  1.846753e-01         -0.2   0
## 6262           3.321262e-02  7.006679e-02          0.2   1
## 6263          -3.577996e-02 -2.014752e-01         -0.1   0
## 6264          -5.956453e-02 -3.553345e-01         -0.3   0
## 6265           6.234268e-02  5.952381e-02          0.1   1
## 6266           6.022335e-02  1.737452e-02         -0.1   1
## 6267           1.474099e-02  9.484424e-02          0.1   1
## 6268           2.992235e-02 -1.445221e-01          0.0   1
## 6269           4.001795e-02  2.107412e-01          0.3   0
## 6270           8.139176e-03  9.123563e-02         -0.2   0
## 6271           7.914600e-02  1.772540e-02          0.1   1
## 6272           1.042198e-01  2.974653e-01          0.2   0
## 6273          -3.596532e-02 -1.300268e-01         -0.3   0
## 6274           1.663289e-02  5.344719e-02          0.4   1
## 6275           3.477089e-03  2.204204e-01          0.4   1
## 6276          -6.174494e-02 -1.486842e-01          0.0   0
## 6277          -3.224858e-02 -2.250273e-01         -0.4   0
## 6278          -2.867549e-02 -2.188651e-01         -0.1   0
## 6279           8.549709e-02  2.199367e-01          0.3   0
## 6280           1.373531e-02  7.058824e-02          0.1   0
## 6281          -2.404180e-02 -2.554143e-01         -0.1   0
## 6282          -3.196715e-02  8.332156e-03          0.0   1
## 6283          -1.137660e-02  1.160677e-01          0.1   1
## 6284          -1.159848e-03 -2.975207e-02          0.0   1
## 6285           4.024977e-02  2.936966e-01          0.2   1
## 6286          -6.105488e-02 -8.162393e-02         -0.2   1
## 6287          -1.659408e-02  8.093842e-02         -0.1   0
## 6288          -2.649607e-02  6.000000e-02          0.0   0
## 6289          -5.314063e-02 -1.963351e-01          0.1   0
## 6290           6.992318e-02  4.135490e-01          0.4   1
## 6291          -5.981618e-02 -1.531577e-01         -0.1   1
## 6292          -1.594875e-02 -8.838384e-02         -0.1   1
## 6293           9.335468e-02  3.534693e-01          0.6   1
## 6294          -6.283641e-02 -2.537879e-01         -0.2   0
## 6295           3.689388e-02  6.504065e-02          0.0   0
## 6296          -1.645140e-02 -8.733974e-02          0.1   0
## 6297           5.384789e-02  8.339153e-02          0.0   1
## 6298           5.216334e-02  1.626065e-01          0.2   0
## 6299           4.433052e-02  2.197611e-01          0.2   1
## 6300          -8.658869e-03 -1.019555e-02         -0.1   1
## 6301          -3.450067e-02 -6.135531e-02         -0.2   0
## 6302           2.054301e-02  2.143875e-01          0.2   1
## 6303           4.462633e-02  1.122807e-01         -0.2   1
## 6304          -2.542819e-02 -2.705443e-01         -0.4   0
## 6305           2.832755e-02  2.082870e-01          0.3   1
## 6306          -1.458740e-02 -1.681329e-02         -0.1   1
## 6307          -2.374783e-02 -6.480700e-02          0.3   0
## 6308           1.338095e-02  1.242346e-01          0.1   1
## 6309           3.839421e-02 -6.907784e-02         -0.3   0
## 6310           8.732980e-02  4.695733e-01          0.6   1
## 6311           9.183048e-02  3.177211e-01         -0.1   1
## 6312           5.731415e-02  3.255107e-01          0.7   1
```

```
## 6313         -1.708822e-02  3.210383e-02         0.1   1
## 6314         -1.057655e-02 -4.367666e-02        -0.1   1
## 6315          2.267635e-02  8.445946e-02        -0.3   0
## 6316         -1.388647e-04  1.150719e-01        -0.3   1
## 6317          2.482952e-02  1.460396e-01         0.1   1
## 6318          1.562098e-02  1.666667e-01         0.0   0
## 6319          7.870168e-02  2.188139e-01         0.3   1
## 6320         -4.015340e-03 -1.568805e-01        -0.2   0
## 6321          7.988651e-02  2.301112e-01         0.4   0
## 6322          8.438896e-02 -1.163743e-01        -0.4   1
## 6323         -4.200677e-02 -1.964442e-01        -0.2   0
## 6324         -9.862179e-04 -2.037037e-01        -0.2   1
## 6325          6.408174e-02  2.066532e-02         0.1   1
## 6326         -2.586356e-02 -1.261406e-01        -0.3   0
## 6327          6.072140e-02  2.664690e-01         0.1   1
## 6328          9.089133e-04 -9.090909e-03         0.2   1
## 6329         -5.027492e-02  4.055220e-02        -0.2   0
## 6330         -7.087099e-02 -2.242424e-01        -0.3   1
## 6331         -6.569987e-02 -2.535665e-01        -0.6   0
## 6332          6.565423e-02  2.499517e-01         0.0   1
## 6333         -1.480187e-02 -1.453340e-02         0.0   0
## 6334         -4.738485e-02 -8.538369e-02         0.0   0
## 6335          1.838668e-02  1.968292e-01         0.2   0
## 6336         -1.332314e-02  7.887194e-02         0.1   0
## 6337          5.582940e-02  1.432990e-01         0.0   0
## 6338         -4.573305e-02 -1.263326e-01        -0.3   0
## 6339          7.379749e-02  1.431155e-01         0.1   1
## 6340         -2.015798e-02 -2.808989e-02         0.0   0
## 6341          8.030971e-03  4.738071e-02         0.0   0
## 6342          7.207850e-02  1.890211e-01         0.2   1
## 6343         -7.144560e-02 -3.730887e-01        -0.5   0
## 6344          2.632110e-02  2.697368e-01         0.1   0
## 6345         -1.986362e-02 -6.363636e-02         0.0   1
## 6346          4.689707e-02  1.025163e-01         0.2   0
## 6347          7.187020e-03  2.827586e-01         0.3   0
## 6348         -9.317080e-03  7.509398e-02         0.5   0
## 6349         -9.458426e-03  3.698188e-02         0.4   1
## 6350         -4.684334e-03  3.649635e-03         0.1   1
## 6351         -8.000865e-03 -1.425676e-01        -0.2   0
## 6352          1.296722e-01  4.872415e-01         0.3   1
## 6353         -8.386163e-02 -3.086179e-01        -0.4   0
## 6354          1.226449e-01  2.855772e-01         0.0   1
## 6355          9.270764e-02  4.705357e-01         0.3   1
## 6356         -8.766711e-03  1.291737e-01        -0.2   0
## 6357          6.000586e-02  1.529173e-01         0.4   1
## 6358         -6.412177e-03 -1.198460e-01        -0.1   0
## 6359          5.484420e-02  4.106010e-02         0.1   0
## 6360         -8.671790e-02 -1.307692e-01         0.0   1
## 6361          7.613723e-02  3.190476e-01         0.3   1
## 6362          4.993464e-02  9.982014e-02         0.1   1
## 6363         -2.523155e-02 -1.190476e-01        -0.2   0
## 6364          1.082683e-03 -2.684332e-01         0.1   1
## 6365         -5.932466e-03 -3.461538e-02        -0.1   0
## 6366         -7.092518e-02 -1.329623e-01        -0.3   1
## 6367         -3.739364e-02 -5.245098e-02         0.0   1
## 6368         -2.812888e-02 -1.606476e-01        -0.2   0
## 6369          2.275641e-02  8.968496e-02         0.1   0
## 6370          1.110454e-01  3.419089e-01         0.5   1
```

```
## 6371          4.111655e-02  1.466667e-01          0.1   1
## 6372         -9.042372e-03 -2.364865e-01         -0.2   0
## 6373         -2.077156e-02  1.206758e-01          0.2   1
## 6374          2.560034e-02  1.085488e-01         -0.1   1
## 6375          1.108049e-01  3.375534e-01          0.3   1
## 6376          8.093510e-02  4.791289e-01          0.5   1
## 6377         -2.557584e-02 -8.849166e-02          0.3   0
## 6378         -5.396515e-02 -3.358170e-01         -0.2   0
## 6379         -4.799560e-02 -4.195171e-02          0.1   1
## 6380         -1.757016e-02 -1.793517e-01         -0.2   1
## 6381          4.057483e-02  4.143072e-01          0.2   1
## 6382          4.789926e-02  2.693780e-01          0.0   1
## 6383         -7.518285e-02 -9.139785e-02         -0.2   0
## 6384          6.482908e-02  2.453228e-01          0.1   1
## 6385         -5.500129e-02 -4.270335e-01         -0.4   0
## 6386          4.056395e-02  9.429443e-02          0.1   1
## 6387         -1.005219e-01 -2.932419e-01         -0.3   0
## 6388          9.278952e-02  3.497631e-01          0.3   1
## 6389          8.402402e-02  2.599850e-01          0.0   0
## 6390         -4.956621e-03  1.065807e-01          0.1   1
## 6391         -2.802082e-02 -1.831717e-01         -0.2   0
## 6392          1.000771e-02  7.836145e-02          0.1   0
## 6393          2.826339e-02  1.319351e-01          0.0   0
## 6394          2.944118e-02  7.139458e-02          0.0   1
## 6395          2.987997e-02  1.188142e-01          0.1   1
## 6396         -8.421049e-03  1.605350e-01          0.2   1
## 6397          5.369778e-02  1.250000e-02         -0.1   0
## 6398          1.440711e-02  1.337543e-01          0.0   1
## 6399         -9.425696e-02 -8.575445e-02          0.0   0
## 6400         -4.770730e-02 -1.266667e-01         -0.1   1
## 6401         -1.205842e-02  3.174603e-02         -0.2   1
## 6402          8.976540e-02  1.195168e-01          0.1   1
## 6403         -5.241188e-02 -1.918903e-01          0.0   1
## 6404         -7.722244e-03 -3.563218e-02         -0.1   0
## 6405         -2.408529e-02  1.535948e-01          0.2   0
## 6406          2.061759e-02  7.662968e-02          0.0   1
## 6407         -2.406032e-02 -4.121504e-02          0.0   1
## 6408          1.237879e-02  2.467532e-02         -0.3   1
## 6409         -4.496482e-03 -6.338259e-02          0.0   1
## 6410         -6.618915e-02  1.115000e-01         -0.2   1
## 6411          1.826934e-02  1.260684e-01          0.4   0
## 6412          4.026485e-03 -1.782051e-01         -0.1   0
## 6413          5.905505e-02  2.764391e-01          0.5   0
## 6414          1.528147e-02  9.406804e-02         -0.1   0
## 6415         -2.377274e-02 -1.422018e-01         -0.1   0
## 6416         -8.200888e-04  2.675654e-02         -0.3   0
## 6417          1.019877e-01  2.154632e-01          0.2   0
## 6418          1.110892e-03  2.429460e-02          0.1   1
## 6419          3.215093e-02 -5.693479e-02         -0.2   0
## 6420         -4.201478e-02 -1.331642e-01         -0.4   0
## 6421         -3.964023e-02 -8.692366e-02          0.1   0
## 6422          7.891702e-04 -6.467181e-02          0.0   1
## 6423          9.928927e-04 -2.170966e-01          0.1   1
## 6424         -6.817620e-03 -1.602925e-02          0.2   1
## 6425          2.831723e-03 -1.322115e-01          0.0   0
## 6426         -6.074709e-03  7.692308e-02          0.0   1
## 6427          1.846246e-02  1.487500e-01          0.1   1
## 6428         -1.054221e-01 -4.314277e-01         -0.4   0
```

```
## 6429        -3.326759e-02 -8.823529e-02         -0.2   0
## 6430        -3.283653e-02  9.006211e-02          0.1   1
## 6431         2.363089e-02  2.052835e-01         -0.2   0
## 6432        -4.646739e-02 -2.231016e-01         -0.2   0
## 6433         8.509902e-02  4.140030e-01          0.5   1
## 6434        -4.932677e-02 -2.249084e-01         -0.2   0
## 6435         4.735053e-02  5.039481e-01          0.5   1
## 6436         1.421339e-02 -6.127013e-02          0.1   1
## 6437        -4.126490e-02 -1.031205e-01          0.1   1
## 6438         1.364651e-02 -1.198127e-01         -0.4   0
## 6439         5.639857e-02  3.077511e-01          0.2   1
## 6440        -8.393647e-02 -1.547619e-01         -0.4   0
## 6441        -5.340712e-02 -1.796791e-01         -0.5   1
## 6442         6.837144e-02  2.122293e-01          0.3   1
## 6443        -1.120421e-01 -4.176111e-01         -0.6   0
## 6444         2.939501e-02  9.746775e-02          0.0   1
## 6445         6.945801e-02 -8.023715e-02         -0.1   1
## 6446         3.945024e-02  1.665303e-01          0.1   1
## 6447        -3.857101e-02 -2.944444e-01         -0.2   0
## 6448        -6.324277e-02 -1.507897e-01         -0.1   1
## 6449        -2.007561e-02 -1.332751e-01          0.2   1
## 6450        -1.232803e-02  2.311138e-01          0.2   0
## 6451        -7.456375e-02 -4.187631e-01         -0.5   0
## 6452         6.039204e-04  1.676529e-01          0.0   0
## 6453        -1.840514e-02  1.783176e-01          0.0   1
## 6454        -1.020194e-02 -1.183535e-01          0.2   1
## 6455         8.777152e-02  1.001406e-01          0.0   0
## 6456         7.049446e-02  1.732804e-01          0.1   1
## 6457        -1.266636e-02 -5.910750e-02         -0.1   1
## 6458         8.211362e-02  3.665153e-01          0.0   1
## 6459         3.599158e-02  3.683119e-01          0.5   1
## 6460        -8.129488e-02 -1.893668e-01          0.0   0
## 6461         5.918387e-02 -1.973233e-02         -0.1   1
## 6462        -7.874972e-04 -5.102041e-03          0.1   0
## 6463         4.582104e-02  3.733045e-01          0.4   1
## 6464         2.216637e-02  1.649306e-01          0.2   0
## 6465        -8.247386e-03 -8.889475e-02          0.1   1
## 6466        -1.087291e-01 -4.580180e-01         -0.6   0
## 6467        -5.096986e-02 -1.480930e-01         -0.4   0
## 6468        -2.909598e-02  7.982456e-02          0.2   1
## 6469         2.159360e-02  1.534896e-01          0.1   1
## 6470         5.838769e-02  7.505176e-02          0.0   1
## 6471         2.711120e-02 -7.751938e-03          0.2   1
## 6472        -3.582615e-02 -1.068047e-01         -0.2   0
## 6473        -9.400656e-02 -3.436335e-01         -0.1   0
## 6474        -7.193805e-03 -2.788210e-01         -0.4   0
## 6475        -3.749608e-02  5.250761e-02         -0.1   1
## 6476        -6.437078e-02 -3.343783e-01         -0.3   0
## 6477        -2.359864e-02 -1.701346e-01          0.0   0
## 6478         2.209586e-02  4.618965e-02          0.1   1
## 6479         5.616177e-02 -5.325444e-02          0.0   1
## 6480        -4.452679e-02 -3.330805e-01         -0.1   0
## 6481         6.384604e-02  1.811765e-01          0.0   1
## 6482        -2.392942e-03 -1.724387e-01         -0.3   0
## 6483         2.011609e-02 -2.029412e-02         -0.1   1
## 6484         8.565917e-03  1.476835e-01          0.0   1
## 6485         1.996867e-02 -2.377802e-02         -0.2   0
## 6486        -3.547551e-03  1.087662e-01          0.2   0
```

```
## 6487          9.061707e-03  1.514599e-01           0.2   1
## 6488         -1.231690e-02 -9.799881e-02          -0.2   0
## 6489          6.661048e-02  1.135135e-01           0.1   0
## 6490         -5.476221e-03  1.734618e-01           0.1   1
## 6491          3.166150e-02  2.328284e-01           0.0   1
## 6492          8.734504e-03 -3.278156e-02          -0.2   1
## 6493          4.121061e-02  1.902687e-01           0.3   1
## 6494          3.103930e-02  8.677249e-02           0.0   1
## 6495          1.863780e-02  4.195804e-02          -0.4   0
## 6496         -7.539680e-03 -7.649646e-04           0.2   0
## 6497         -2.495224e-02 -1.403594e-01          -0.2   0
## 6498          6.190205e-02  5.365127e-02           0.1   1
## 6499          2.540838e-02  1.634023e-01           0.2   1
## 6500         -4.182060e-02 -1.581320e-01           0.0   0
## 6501         -3.391760e-02 -1.198541e-01          -0.4   0
## 6502          6.685976e-03  2.739130e-02           0.1   1
## 6503          8.342769e-04 -5.443658e-03           0.1   0
## 6504         -6.548068e-04 -1.223943e-02           0.1   0
## 6505         -1.162035e-02  3.378378e-03           0.2   0
## 6506         -7.167357e-03  5.271920e-02           0.2   1
## 6507         -1.536394e-02  2.264957e-02          -0.1   1
## 6508          3.673629e-02  0.000000e+00           0.0   0
## 6509         -1.511772e-02 -1.971326e-01          -0.2   0
## 6510          9.816664e-03  5.454545e-02           0.1   1
## 6511          2.188840e-02  1.046498e-01           0.1   0
## 6512          4.461242e-02  1.132647e-01          -0.1   1
## 6513         -9.663659e-03 -1.581582e-01           0.0   1
## 6514         -8.126024e-03 -7.092476e-02          -0.1   0
## 6515         -2.026423e-02  5.494505e-03           0.1   1
## 6516          1.969678e-02 -1.645022e-01           0.3   0
## 6517         -1.145650e-02  5.458090e-02           0.1   1
## 6518         -2.643618e-02 -2.517007e-01          -0.5   0
## 6519          6.133738e-02  4.621537e-01           0.5   1
## 6520          1.225508e-02 -5.314010e-02           0.0   0
## 6521          2.369942e-02 -7.843969e-03          -0.3   1
## 6522         -4.570458e-03 -1.612069e-01          -0.3   0
## 6523         -6.443534e-03 -6.324137e-02          -0.2   0
## 6524         -2.424294e-02 -8.605999e-02           0.0   1
## 6525         -5.897797e-02 -1.563402e-01          -0.1   0
## 6526         -6.100649e-02 -2.338520e-01          -0.1   0
## 6527         -8.821741e-02 -7.383896e-02          -0.1   1
## 6528          1.163880e-02  2.618005e-02          -0.1   1
## 6529         -1.634552e-02  1.822374e-01           0.3   1
## 6530          3.784972e-03  1.537602e-01          -0.4   0
## 6531         -4.885265e-03 -7.354839e-02          -0.1   1
## 6532         -2.920960e-02 -5.688269e-02          -0.1   0
## 6533          1.064367e-01  3.937729e-01           0.4   0
## 6534          6.822457e-02  2.800150e-01           0.4   1
## 6535         -1.971335e-02 -1.887850e-01           0.1   0
## 6536          5.749853e-02  1.376492e-01           0.3   0
## 6537          1.068668e-01  2.197802e-01           0.2   1
## 6538          7.473223e-02  1.674634e-01           0.2   1
## 6539         -4.697027e-02 -2.054507e-01           0.1   1
## 6540         -7.472933e-02 -3.401559e-01          -0.3   0
## 6541         -5.574208e-02 -1.575089e-01          -0.4   0
## 6542          1.439276e-02  3.011712e-02           0.3   1
## 6543          8.152634e-02  1.451575e-01          -0.1   1
## 6544         -3.406198e-02 -1.858512e-01          -0.3   0
```

303

```
## 6545          -8.906876e-04 -7.724645e-02          -0.3   0
## 6546           6.687063e-02  4.387097e-02           0.2   0
## 6547          -4.140979e-02 -1.181818e-01           0.1   0
## 6548          -3.848510e-02 -2.861450e-01          -0.3   0
## 6549          -7.253540e-02 -4.197401e-01          -0.3   0
## 6550           2.015144e-02  4.900965e-02           0.3   1
## 6551           8.516078e-03  1.276439e-01           0.3   1
## 6552           1.859487e-02 -7.644060e-02           0.2   0
## 6553          -9.078971e-02 -3.426837e-01          -0.1   0
## 6554           1.866888e-02 -1.110036e-01          -0.2   0
## 6555          -1.836732e-02 -3.212146e-02           0.1   1
## 6556           5.684636e-02  1.797424e-01           0.0   1
## 6557          -2.545305e-02 -6.087325e-02          -0.2   0
## 6558          -6.611547e-02 -1.993651e-01          -0.4   0
## 6559           9.586734e-02  3.005754e-01           0.3   1
## 6560           5.742345e-02  2.121951e-01           0.2   1
## 6561          -4.731154e-02  2.030075e-02           0.2   1
## 6562           2.044805e-03  1.525199e-02           0.2   1
## 6563           2.106539e-02  2.772277e-01           0.3   1
## 6564          -2.148999e-02 -2.768348e-01          -0.1   1
## 6565           3.787773e-02  2.594065e-02          -0.2   0
## 6566          -4.589107e-02 -1.750273e-01           0.0   0
## 6567           2.250357e-02  1.069005e-01          -0.1   1
## 6568           4.506965e-03  1.204270e-02           0.0   0
## 6569          -1.467265e-02 -1.191041e-01          -0.2   0
## 6570          -2.013335e-02 -3.657107e-02           0.0   1
## 6571          -3.905995e-02 -2.461084e-01          -0.2   0
## 6572          -3.808341e-02  1.827957e-02           0.0   0
## 6573          -3.213315e-02 -2.251578e-01          -0.2   0
## 6574           2.210402e-02  4.761905e-02           0.1   0
## 6575           7.439534e-03  1.176471e-01           0.0   1
## 6576           4.082815e-03  1.830060e-01           0.0   1
## 6577          -5.749704e-04  1.169985e-01           0.1   1
## 6578          -1.163606e-03 -1.827527e-03           0.0   1
## 6579           1.110410e-02  1.972835e-01           0.0   1
## 6580          -1.157376e-02  1.070393e-01          -0.1   0
## 6581           4.742341e-03 -9.707981e-02           0.4   0
## 6582           2.423133e-02  2.075099e-01           0.3   1
## 6583          -3.133019e-02 -9.754309e-02           0.0   0
## 6584          -4.595942e-02 -2.459459e-01          -0.3   1
## 6585          -5.589767e-02 -1.860465e-01          -0.1   1
## 6586           3.993365e-04 -3.136172e-01           0.1   0
## 6587           3.278896e-02  6.658596e-02           0.0   1
## 6588           2.405153e-02 -5.499232e-02           0.0   1
## 6589           5.198167e-02 -1.844262e-03           0.0   0
## 6590           5.813072e-02  1.000000e-01           0.1   0
## 6591           1.080449e-02 -1.258581e-01           0.0   0
## 6592           8.260566e-02  2.037007e-01           0.2   1
## 6593          -2.206255e-02 -2.256410e-01          -0.2   0
## 6594           7.804602e-02  3.112208e-01           0.2   1
## 6595           2.839316e-02  9.318875e-04           0.1   1
## 6596          -1.300470e-02  7.316627e-02          -0.4   1
## 6597           3.086642e-02 -2.628968e-02           0.1   1
## 6598          -2.896647e-02 -8.895131e-03           0.0   1
## 6599           6.092445e-02  1.304936e-01           0.0   1
## 6600           7.403570e-02  3.924988e-01           0.0   0
## 6601          -3.470192e-02 -7.407407e-02           0.1   0
## 6602           1.158686e-02  2.686143e-01          -0.3   1
```

304

```
## 6603        8.266889e-02  2.246377e-01          0.0   1
## 6604       -2.539657e-02 -5.434783e-02         -0.1   1
## 6605       -4.493241e-02 -1.860090e-01         -0.5   0
## 6606        8.319256e-02  3.473136e-01          0.2   1
## 6607        3.805284e-02  5.900755e-02          0.2   1
## 6608       -1.880645e-02  2.318841e-02         -0.1   1
## 6609       -9.656387e-03  2.153716e-01         -0.2   1
## 6610        6.422739e-02  6.321839e-02          0.2   1
## 6611       -6.833217e-02 -9.005175e-02          0.0   0
## 6612       -1.477023e-02 -1.397288e-01          0.0   1
## 6613        7.671880e-02  9.762918e-02          0.2   1
## 6614       -8.778311e-02 -4.888800e-02         -0.4   0
## 6615        4.118637e-02  4.437229e-02          0.1   0
## 6616       -3.406647e-02  3.120205e-02          0.0   0
## 6617       -2.618569e-02 -2.352008e-01          0.0   0
## 6618        5.076198e-02  1.222186e-01         -0.1   0
## 6619        1.460545e-02  1.342593e-01         -0.1   1
## 6620       -8.315270e-02 -1.026229e-01         -0.2   0
## 6621        2.054439e-03  5.319499e-02         -0.3   0
## 6622        1.407304e-02  4.888889e-02          0.0   1
## 6623       -3.043838e-02  7.461763e-02         -0.1   1
## 6624       -2.572348e-02 -8.621554e-02          0.0   1
## 6625        5.014830e-02  9.490172e-02         -0.1   0
## 6626        3.708145e-02  2.632124e-01          0.2   1
## 6627        8.982680e-03 -2.651021e-02         -0.2   0
## 6628       -2.208114e-02 -4.097597e-02         -0.2   1
## 6629        4.803962e-03  6.578947e-03          0.0   1
## 6630       -3.493158e-02 -2.701457e-01         -0.4   1
## 6631       -3.777092e-02 -8.196003e-02         -0.2   0
## 6632        5.059240e-02  4.516346e-02          0.2   0
## 6633        4.611173e-02  2.159324e-01         -0.2   0
## 6634        2.807433e-02 -2.004664e-01         -0.1   0
## 6635       -2.453390e-02 -2.821860e-01         -0.1   0
## 6636        6.603448e-02  2.102084e-01          0.3   1
## 6637       -1.897030e-02 -1.889147e-01         -0.1   0
## 6638       -3.075208e-02 -1.795812e-01          0.0   1
## 6639       -8.011375e-04  4.086318e-02         -0.1   0
## 6640       -4.131840e-02 -2.674880e-01         -0.3   0
## 6641       -3.683210e-02  6.478899e-02         -0.6   1
## 6642        9.671514e-02  1.604857e-01          0.1   0
## 6643        4.369673e-02  2.165253e-01          0.3   1
## 6644        8.130551e-02  2.144749e-01          0.3   1
## 6645        3.780743e-02  9.877169e-03          0.1   0
## 6646       -2.235152e-02  9.753272e-02          0.0   1
## 6647        6.411654e-02  2.084529e-01          0.2   1
## 6648        1.708391e-02  1.341700e-01         -0.2   0
## 6649       -5.154744e-02 -1.909091e-01          0.0   0
## 6650       -8.548922e-02 -1.769231e-01         -0.2   0
## 6651        1.054139e-01  4.663594e-01          0.4   1
## 6652       -6.183082e-02 -1.514360e-01         -0.1   0
## 6653        3.672612e-02  1.192529e-01          0.2   0
## 6654       -4.325382e-02 -1.642857e-01         -0.1   0
## 6655       -4.331784e-02 -3.901793e-01         -0.3   0
## 6656       -6.426604e-02 -2.716373e-01         -0.4   0
## 6657        6.246253e-02  2.684757e-01          0.1   0
## 6658       -1.111696e-01 -2.657797e-01         -0.1   1
## 6659        7.578168e-03  0.000000e+00          0.0   1
## 6660        8.897622e-03 -5.062558e-02          0.3   1
```

```
## 6661          -3.547513e-02 -2.648782e-01          -0.4   0
## 6662          -4.439709e-02 -1.395074e-01          -0.1   0
## 6663          -1.100784e-02 -1.293706e-01          -0.3   1
## 6664          -6.053868e-02 -3.757003e-01          -0.1   0
## 6665          -8.814496e-02 -2.180106e-01          -0.1   1
## 6666          -5.229552e-02 -3.532942e-01          -0.3   0
## 6667          -2.394599e-02 -3.996344e-02           0.0   0
## 6668          -1.030303e-01 -4.163455e-01          -0.1   0
## 6669           1.963658e-02  1.657428e-01           0.2   1
## 6670          -1.655654e-02  2.055053e-03          -0.2   1
## 6671          -1.093795e-02 -5.081301e-03           0.1   1
## 6672          -1.531371e-02 -1.797386e-02           0.0   1
## 6673          -2.935108e-02 -5.230496e-02          -0.2   1
## 6674           1.126934e-02 -7.288699e-02           0.2   0
## 6675           5.812638e-02  1.646341e-01           0.1   0
## 6676           1.237771e-02  7.482871e-02           0.1   1
## 6677           5.430277e-03 -4.739496e-02          -0.1   0
## 6678          -3.432091e-02 -2.640693e-01          -0.2   0
## 6679           1.732992e-02  6.894587e-02           0.0   0
## 6680          -8.176788e-02 -2.184247e-01          -0.2   0
## 6681           2.047192e-02  6.978022e-02          -0.1   0
## 6682           3.230267e-02  1.411957e-01          -0.3   1
## 6683          -2.316046e-02  2.851485e-01           0.2   1
## 6684          -3.877231e-02  2.016129e-02           0.2   1
## 6685          -4.397583e-02 -8.154706e-02          -0.4   0
## 6686           6.768559e-02  1.036816e-01           0.0   0
## 6687          -1.531043e-02  3.534957e-03          -0.2   0
## 6688           7.372557e-02  2.987033e-01           0.0   1
## 6689          -5.733716e-02  3.018576e-02           0.0   0
## 6690          -6.479153e-03 -2.411243e-01          -0.3   0
## 6691          -3.649270e-02 -1.600603e-01           0.2   0
## 6692          -1.722374e-02  3.871347e-02          -0.2   1
## 6693           3.908831e-02  6.795755e-02           0.2   0
## 6694          -3.542411e-03 -1.775331e-01           0.0   1
## 6695          -1.089915e-02  8.108108e-02           0.1   1
## 6696           2.942344e-02  9.285714e-02           0.0   1
## 6697           4.211525e-02  3.194028e-01           0.0   0
## 6698          -4.142532e-02 -1.556119e-01           0.2   0
## 6699          -5.485965e-03 -1.193087e-01          -0.1   1
## 6700          -1.119458e-02 -4.397815e-02          -0.1   1
## 6701           2.432239e-03 -3.188406e-01           0.0   1
## 6702           5.826648e-02  3.230963e-01           0.2   1
## 6703           2.391027e-03  1.175845e-01          -0.1   1
## 6704           4.655209e-02  1.821531e-01           0.0   1
## 6705           5.205115e-02  1.629976e-01          -0.1   0
## 6706          -2.624750e-02 -1.450216e-01           0.1   0
## 6707          -1.230998e-03  1.371302e-01           0.0   1
## 6708           3.724067e-02  1.270983e-01          -0.2   1
## 6709          -3.212298e-04 -1.198171e-01           0.1   1
## 6710           8.532987e-03 -1.037433e-01           0.1   0
## 6711           2.172708e-02 -2.566138e-01          -0.1   0
## 6712          -9.755193e-02 -2.434109e-01          -0.1   0
## 6713          -2.728603e-02 -8.671846e-02          -0.1   1
## 6714           1.509074e-02 -7.341012e-02           0.5   1
## 6715          -4.761683e-04 -1.872180e-01          -0.2   1
## 6716          -6.604908e-03  1.886792e-02           0.1   1
## 6717           1.413160e-02 -4.463028e-02           0.0   1
## 6718          -7.132549e-02 -1.633894e-01          -0.1   0
```

306

```
## 6719            7.391610e-02  6.481481e-02        -0.2    0
## 6720           -2.303738e-02 -2.737048e-02         0.0    0
## 6721            9.441079e-02  4.184363e-01         0.4    1
## 6722           -4.391393e-04 -4.275030e-02         0.3    0
## 6723            6.113951e-02  1.410363e-01         0.1    1
## 6724            6.323216e-02  1.784395e-01         0.3    1
## 6725            9.288657e-03 -1.320998e-01        -0.1    0
## 6726            6.413917e-02  1.128205e-01        -0.1    1
## 6727           -4.660568e-02 -1.779280e-01         0.0    1
## 6728            7.536679e-03  1.503070e-01         0.0    0
## 6729            9.597446e-02  4.080240e-01         0.4    1
## 6730           -5.280229e-02 -7.779335e-02        -0.1    0
## 6731           -7.813443e-02 -1.118179e-01         0.1    0
## 6732            8.166504e-02  4.024351e-01         0.2    1
## 6733            8.232015e-03  7.487332e-02         0.1    1
## 6734            2.043254e-02 -2.151515e-01        -0.2    0
## 6735           -2.686427e-02 -1.879317e-01        -0.1    0
## 6736            6.553860e-02  1.052632e-01        -0.2    0
## 6737           -8.007179e-02 -2.339876e-01        -0.3    0
## 6738           -6.300302e-02  2.566510e-02         0.0    0
## 6739            5.082032e-02 -4.786967e-02        -0.2    0
## 6740            7.664424e-03  1.056818e-01        -0.3    1
## 6741            1.219722e-02 -1.370031e-01        -0.1    0
## 6742           -5.529778e-02 -1.967836e-01        -0.1    1
## 6743           -4.193792e-02 -1.711596e-03         0.2    0
## 6744            1.387910e-03 -2.039007e-01        -0.1    0
## 6745           -2.725645e-02 -1.749672e-01        -0.4    0
## 6746            2.938327e-03  6.835979e-02        -0.2    0
## 6747            3.588973e-02  1.407686e-01         0.3    1
## 6748            3.388436e-02  3.818369e-02         0.1    1
## 6749            1.405991e-02  1.088841e-01         0.0    1
## 6750           -1.875704e-02 -2.225108e-01        -0.1    0
## 6751           -6.965408e-03 -1.174603e-01        -0.5    0
## 6752           -1.243475e-02 -1.698158e-02        -0.3    0
## 6753            7.685014e-03 -5.507962e-02         0.0    1
## 6754            4.371115e-02  3.795038e-01         0.1    1
## 6755           -4.292560e-02 -1.462433e-01         0.2    0
## 6756            3.610481e-02 -3.210383e-02         0.0    1
## 6757            6.947478e-04 -3.034852e-01         0.1    1
## 6758           -3.335192e-02 -1.189990e-01        -0.1    0
## 6759           -7.091547e-02 -2.216216e-01         0.0    0
## 6760           -1.929011e-02 -1.089443e-01        -0.5    0
## 6761            1.517612e-02 -1.027077e-02         0.1    0
## 6762           -4.506814e-02 -1.668947e-01        -0.2    0
## 6763            1.205183e-02 -1.127451e-01        -0.1    0
## 6764            6.680279e-03  5.855113e-02        -0.1    1
## 6765            1.751658e-02  6.729940e-02        -0.1    1
## 6766           -4.100768e-02 -1.930177e-01         0.0    0
## 6767           -3.389226e-02 -1.714620e-01        -0.1    1
## 6768            2.884408e-02  3.520514e-01         0.1    1
## 6769            1.711446e-02  2.665006e-01        -0.1    0
## 6770            1.310308e-02  9.814284e-03         0.4    0
## 6771           -4.027730e-02 -5.993555e-02         0.0    0
## 6772           -2.481776e-02 -2.927069e-02         0.0    0
## 6773            1.777002e-02  4.754330e-02        -0.1    0
## 6774            3.924749e-02  2.504505e-01         0.1    1
## 6775           -1.682388e-02 -2.256825e-01         0.0    0
## 6776           -3.716049e-02 -1.000000e-01        -0.1    0
```

```
## 6777            1.023368e-02  1.216320e-01          -0.1   0
## 6778            7.106866e-04  1.893939e-03           0.0   0
## 6779           -2.219213e-02 -2.162235e-02          -0.1   0
## 6780           -1.919894e-02 -3.011988e-01          -0.4   0
## 6781           -1.007034e-01 -1.072226e-01          -0.2   0
## 6782            3.581969e-02  1.416667e-01          -0.2   1
## 6783           -2.143958e-02 -1.165405e-01          -0.1   1
## 6784            4.382954e-02  1.719140e-01           0.3   1
## 6785            8.870734e-03  7.545074e-02           0.0   1
## 6786            1.140470e-02 -7.661773e-02          -0.2   0
## 6787            4.289372e-02  3.809524e-02          -0.2   0
## 6788            6.501474e-02  2.642458e-01           0.2   1
## 6789            1.209954e-02 -9.036145e-02          -0.2   1
## 6790           -5.864724e-03  9.163803e-03           0.0   1
## 6791            6.167830e-02  1.392962e-01          -0.3   1
## 6792            9.089756e-02  3.028442e-01           0.2   1
## 6793            3.623029e-02  7.786068e-02           0.3   1
## 6794            4.220872e-03  1.925954e-02          -0.4   0
## 6795           -4.217052e-03 -2.593514e-02           0.0   1
## 6796           -4.597282e-02 -1.785621e-01          -0.2   1
## 6797           -9.524493e-02 -1.672418e-01           0.0   0
## 6798           -7.877404e-02 -2.419880e-01          -0.3   1
## 6799            1.020531e-02 -5.080530e-02           0.0   0
## 6800            1.502319e-02  4.567727e-02           0.1   1
## 6801           -1.264466e-02 -4.011055e-02           0.0   0
## 6802           -3.637772e-02 -3.666964e-01          -0.3   1
## 6803            3.387517e-02  1.904762e-01           0.3   1
## 6804           -7.751221e-02 -4.710319e-02          -0.4   1
## 6805           -5.743721e-02 -2.704577e-01          -0.3   0
## 6806           -2.947336e-02 -2.189747e-01          -0.1   0
## 6807           -5.352367e-03  1.497946e-01           0.2   1
## 6808           -6.221380e-02  3.096647e-02           0.1   0
## 6809            1.247560e-03 -1.903857e-01          -0.2   0
## 6810            9.597971e-02  4.086577e-01           0.4   1
## 6811            3.108118e-02  8.460393e-02           0.3   0
## 6812           -2.363610e-02 -7.242189e-02           0.0   0
## 6813            3.157077e-02  3.173235e-01           0.3   1
## 6814            5.161400e-02  3.053509e-01           0.4   0
## 6815           -1.252813e-01 -2.251462e-01          -0.3   1
## 6816            9.024920e-04  6.574074e-02           0.0   1
## 6817            8.103528e-02  3.080189e-01           0.2   1
## 6818           -1.345451e-02 -1.592190e-01          -0.3   0
## 6819           -3.961291e-02 -9.620502e-02          -0.4   0
## 6820           -4.219888e-02 -1.691340e-01          -0.1   0
## 6821            5.946631e-03  1.398000e-01          -0.1   1
## 6822           -5.815081e-02 -2.729154e-01          -0.5   0
## 6823           -3.438871e-03 -1.662811e-01           0.1   0
## 6824           -3.256024e-02  6.125320e-02           0.0   1
## 6825            9.391558e-02  2.274252e-01           0.1   0
## 6826            1.993975e-02  3.165281e-02          -0.2   0
## 6827            2.145175e-02 -7.664582e-02          -0.2   1
## 6828            3.119602e-02  8.572567e-02           0.2   1
## 6829           -4.262430e-02 -1.824818e-01          -0.2   1
## 6830            2.748826e-02  3.925406e-02          -0.2   0
## 6831            1.160782e-01  4.347826e-01           0.3   1
## 6832           -3.910065e-02 -1.963331e-01           0.0   0
## 6833           -1.096416e-02 -4.720280e-02          -0.1   0
## 6834           -5.594396e-02 -2.316163e-01          -0.5   0
```

```
## 6835      -5.651496e-02 -3.322413e-01            -0.2   0
## 6836       4.749730e-02  1.537227e-02             0.1   1
## 6837      -7.055697e-02 -1.824406e-01            -0.4   1
## 6838       2.089830e-02  2.201114e-01             0.0   1
## 6839      -3.813904e-02 -1.550922e-01            -0.4   0
## 6840      -5.335209e-02 -4.142937e-02             0.1   1
## 6841      -2.011773e-03  9.441566e-02            -0.2   1
## 6842       3.431628e-02  4.061341e-02             0.0   1
## 6843       4.696370e-02  7.875458e-02            -0.2   0
## 6844      -3.311592e-02 -2.258065e-01             0.0   1
## 6845      -1.677145e-02 -1.395722e-01            -0.1   1
## 6846      -3.763954e-02 -1.425325e-01            -0.3   1
## 6847       3.329564e-02  2.753623e-01             0.1   1
## 6848       3.157758e-02  6.787330e-02             0.2   0
## 6849       8.822444e-03  4.569872e-02             0.1   0
## 6850       6.277619e-02  2.702703e-02            -0.1   1
## 6851       2.406903e-03 -4.749618e-02             0.2   1
## 6852      -8.047825e-03  7.486519e-02             0.1   1
## 6853       2.391227e-02  1.782123e-02             0.3   0
## 6854      -5.558755e-02 -2.519563e-01            -0.2   0
## 6855      -1.444578e-02 -9.075363e-02            -0.2   1
## 6856      -6.954099e-02 -3.747130e-01            -0.3   0
## 6857       2.252787e-02 -8.998545e-02             0.1   1
## 6858      -5.158566e-02 -2.436275e-01            -0.2   0
## 6859       2.664592e-02  1.771284e-01             0.2   1
## 6860      -4.832192e-02 -1.400877e-01            -0.1   0
## 6861       3.209482e-02 -8.863013e-03             0.0   1
## 6862      -1.189028e-01 -4.184604e-01            -0.4   0
## 6863      -7.518820e-02 -4.734670e-01            -0.2   0
## 6864       3.256747e-02  7.548387e-02            -0.2   0
## 6865      -3.912033e-03  1.462330e-01             0.4   0
## 6866       5.633933e-02  2.893480e-01             0.4   0
## 6867      -7.645533e-03  1.824356e-01             0.3   0
## 6868      -1.966641e-02 -1.542754e-01            -0.1   0
## 6869       1.644943e-02 -2.094017e-02            -0.1   0
## 6870       9.589464e-02  3.950367e-01             0.4   1
## 6871      -3.952202e-02 -3.282058e-01            -0.3   0
## 6872       5.825033e-03  1.388914e-01            -0.1   1
## 6873      -4.378731e-02 -3.355303e-01            -0.4   0
## 6874       8.272507e-02  2.909035e-01             0.1   0
## 6875       2.107110e-02 -2.788983e-02             0.0   0
## 6876      -2.176930e-02  1.337746e-01             0.3   0
## 6877      -9.558361e-02 -2.174357e-01            -0.1   0
## 6878       4.433056e-03 -1.581087e-01            -0.1   1
## 6879      -3.202395e-02 -9.066280e-02            -0.4   0
## 6880      -5.328412e-03 -2.941176e-02             0.1   1
## 6881       3.080991e-02  2.900433e-01             0.2   1
## 6882       1.114935e-02  1.604063e-01             0.3   1
## 6883      -1.148497e-01 -3.604787e-01             0.0   0
## 6884      -2.010925e-02  3.597148e-02             0.2   1
## 6885       3.585645e-02  2.173228e-01             0.1   0
## 6886      -2.350606e-02  3.345021e-02             0.1   0
## 6887       1.344750e-02  2.829314e-02             0.1   1
## 6888       4.040796e-02  2.717391e-03             0.1   0
## 6889      -2.042877e-02 -1.448445e-01            -0.3   0
## 6890       6.470896e-03  8.762255e-02             0.1   0
## 6891       1.746158e-02  6.943057e-02             0.0   1
## 6892       6.488398e-02  4.948240e-02            -0.2   0
```

```
## 6893         -3.088628e-02  7.969508e-03        -0.1   0
## 6894         -1.123797e-02  1.098572e-01        -0.1   0
## 6895          4.288567e-03  6.862394e-02         0.2   1
## 6896          2.251056e-02 -6.502283e-02        -0.1   1
## 6897         -4.166767e-02  7.272727e-02         0.0   1
## 6898         -1.802567e-02 -1.906952e-01         0.1   0
## 6899         -5.966909e-02 -2.692778e-02         0.1   0
## 6900         -2.986376e-02 -3.948256e-02         0.0   0
## 6901         -4.686522e-03 -6.981880e-02        -0.1   0
## 6902         -3.244880e-03 -1.171828e-01         0.1   1
## 6903          9.706681e-02  1.386678e-01         0.0   0
## 6904          3.572553e-02  1.040596e-01        -0.1   0
## 6905          4.501658e-02  1.527164e-01         0.2   1
## 6906          1.500278e-02  5.073892e-02         0.0   1
## 6907         -9.211582e-02 -3.576045e-01        -0.1   1
## 6908         -2.568312e-02  5.765517e-02        -0.2   1
## 6909          6.003223e-03  5.192744e-02         0.0   1
## 6910         -1.250083e-02  8.580902e-02         0.4   0
## 6911         -4.588008e-02 -1.527778e-01         0.0   0
## 6912         -4.494218e-02 -6.810036e-02         0.1   1
## 6913          1.606267e-02  1.349367e-01         0.0   0
## 6914          7.000833e-02  7.010354e-02         0.3   0
## 6915          6.358581e-02  2.097465e-01        -0.2   1
## 6916         -1.289003e-02 -1.978743e-01        -0.4   1
## 6917          8.360580e-02  2.109375e-01         0.1   0
## 6918          3.390428e-02  1.135057e-01         0.1   1
## 6919          4.018130e-02 -2.287025e-02        -0.1   0
## 6920         -3.663857e-02 -1.039604e-01         0.0   0
## 6921         -1.670926e-02 -2.142132e-01        -0.1   0
## 6922         -4.717394e-02 -2.098139e-01        -0.2   1
## 6923          5.110647e-03 -1.295143e-01        -0.2   0
## 6924         -3.447269e-02 -2.100445e-01        -0.1   0
## 6925         -4.857870e-02 -1.732988e-01         0.1   1
## 6926         -7.224787e-02 -9.964158e-02         0.0   0
## 6927         -2.103593e-02 -2.305256e-01         0.0   0
## 6928          3.986484e-02  1.764453e-01         0.0   0
## 6929          4.513689e-02  2.107603e-01         0.1   1
## 6930          1.093783e-02 -7.684555e-02         0.1   0
## 6931          3.367001e-02 -5.664596e-02        -0.2   0
## 6932         -6.012965e-02 -2.230047e-01         0.1   0
## 6933          5.422566e-04 -1.033830e-01         0.0   0
## 6934         -2.862869e-02 -1.686747e-01         0.0   1
## 6935         -8.124893e-02 -4.253061e-01        -0.3   0
## 6936          4.950573e-02  1.389201e-01         0.1   0
## 6937          5.357724e-02  1.027188e-01         0.2   1
## 6938         -1.717404e-02 -6.970158e-02         0.1   1
## 6939          1.349409e-02 -5.219780e-02         0.2   1
## 6940          1.353853e-02  3.409091e-02         0.1   1
## 6941         -5.993040e-02 -2.207464e-01        -0.2   0
## 6942         -1.613064e-02  7.530864e-02         0.2   0
## 6943         -1.638217e-02 -1.544572e-01         0.1   0
## 6944         -9.977358e-02 -2.014083e-01        -0.2   0
## 6945         -5.617793e-02 -1.506008e-01         0.3   0
## 6946         -2.628902e-02 -3.703704e-02         0.1   0
## 6947         -4.149989e-02 -3.826087e-01        -0.4   0
## 6948          1.549198e-02  1.812046e-01         0.1   1
## 6949         -5.447131e-02 -4.967943e-01        -0.4   0
## 6950          4.936367e-04  4.448858e-02         0.0   1
```

```
## 6951          -6.626778e-02 -1.421099e-01          -0.5    0
## 6952          -2.084118e-02  1.558824e-01           0.3    1
## 6953           3.924052e-02  7.806895e-02          -0.3    0
## 6954          -8.477302e-03  1.159420e-02           0.2    1
## 6955           1.173169e-02  3.144599e-01           0.3    1
## 6956          -1.750523e-02 -2.391219e-01          -0.8    0
## 6957           2.863796e-03  6.877828e-02          -0.2    1
## 6958          -2.233796e-02  2.489510e-01           0.2    1
## 6959          -7.166041e-02 -7.251521e-02           0.1    0
## 6960          -2.365440e-03 -1.031977e-01          -0.3    1
## 6961           2.264777e-02  1.661255e-01           0.0    1
## 6962           1.803412e-02  2.888889e-01           0.3    0
## 6963          -3.930503e-02 -2.341785e-01          -0.2    0
## 6964          -4.395431e-02 -4.434573e-02          -0.1    1
## 6965          -5.274943e-02 -1.985816e-01          -0.3    0
## 6966          -2.040614e-02  1.219541e-01           0.0    0
## 6967          -3.128139e-02 -2.017544e-01          -0.4    0
## 6968           1.553750e-02 -8.964037e-02           0.2    0
## 6969          -5.425586e-02 -2.971992e-01          -0.6    0
## 6970          -7.894344e-02 -1.589367e-01          -0.3    0
## 6971           4.963507e-02  4.139785e-02           0.3    1
## 6972          -7.856762e-02 -1.524732e-01          -0.4    0
## 6973          -5.225218e-02 -2.942138e-02           0.1    0
## 6974           6.426082e-03  0.000000e+00           0.0    0
## 6975          -2.326627e-02  2.255779e-01           0.3    1
## 6976           7.656466e-02  3.979138e-01           0.3    1
## 6977           5.342601e-02  2.666667e-01           0.2    1
## 6978           3.653991e-03  1.333165e-01           0.3    1
## 6979           9.670152e-02  1.235431e-01          -0.1    0
## 6980           1.407539e-02 -5.065909e-02          -0.2    0
## 6981           5.321976e-03  2.379310e-01           0.4    0
## 6982           9.520710e-03 -7.165404e-02          -0.2    0
## 6983           2.210226e-02  1.728571e-01           0.1    1
## 6984          -6.331539e-03 -8.365356e-02          -0.2    0
## 6985          -2.367515e-02 -1.125541e-01          -0.4    0
## 6986          -1.000666e-02 -1.587302e-02           0.2    1
## 6987           5.935844e-02  1.712418e-01           0.1    1
## 6988           5.054022e-03 -2.639517e-03           0.3    0
## 6989          -4.817577e-03  5.500371e-02           0.0    1
## 6990           2.573645e-02  8.285714e-02           0.2    1
## 6991          -1.010576e-01 -4.658537e-01          -0.3    0
## 6992          -1.201244e-02  4.128811e-02           0.0    0
## 6993          -3.359507e-02 -1.885736e-01          -0.3    0
## 6994           8.144230e-02  2.064830e-01           0.4    1
## 6995           1.172896e-02 -1.291209e-01           0.0    0
## 6996           2.039934e-02  2.701374e-02          -0.1    1
## 6997          -9.734997e-02 -4.295051e-01          -0.6    0
## 6998          -4.527753e-02  1.341615e-02          -0.2    1
## 6999           3.610030e-03  5.758583e-02           0.4    1
## 7000           6.459256e-03  1.205674e-01           0.1    1
## 7001           3.836182e-02  2.899633e-01           0.7    1
## 7002          -6.598060e-02 -1.077426e-01           0.0    0
## 7003          -1.656845e-02  7.011663e-02          -0.1    1
## 7004          -5.113229e-02 -5.055199e-01          -0.4    0
## 7005          -1.193734e-02  1.314554e-01           0.1    1
## 7006           1.243522e-02 -1.016304e-01          -0.2    0
## 7007          -4.267233e-02 -1.764982e-01           0.0    0
## 7008           4.723172e-02  2.518670e-01           0.0    1
```

```
## 7009          5.218462e-02  1.303358e-01           0.0   1
## 7010          6.781523e-02  3.198925e-01           0.3   1
## 7011         -8.028155e-02 -1.606487e-01          -0.2   0
## 7012         -5.012964e-02 -2.723596e-01           0.0   0
## 7013         -5.934012e-02 -2.023004e-01          -0.1   0
## 7014          4.136108e-02  8.703481e-02           0.1   1
## 7015         -7.419315e-03 -1.751922e-01          -0.2   0
## 7016         -6.659019e-03 -1.373881e-01          -0.1   0
## 7017          9.338983e-02  2.566703e-01           0.1   1
## 7018         -5.169866e-02 -1.496152e-01           0.2   0
## 7019         -1.086315e-01 -3.866741e-01          -0.2   0
## 7020          3.685694e-02  3.531224e-01           0.2   1
## 7021         -2.621049e-02 -1.684113e-01           0.0   0
## 7022         -4.257628e-02 -2.564103e-02           0.2   1
## 7023          2.138273e-02  3.521271e-02          -0.1   0
## 7024         -1.186791e-01 -4.176869e-01          -0.5   0
## 7025         -1.916209e-02 -1.315440e-01           0.0   0
## 7026          2.676832e-02 -1.198371e-01          -0.3   0
## 7027          4.909894e-02  1.297544e-01           0.2   1
## 7028          2.055119e-03  1.255356e-01           0.0   0
## 7029          4.661351e-02  1.480154e-01           0.3   1
## 7030          3.507834e-02  7.273502e-02          -0.1   0
## 7031          6.109174e-03  2.480588e-01           0.2   1
## 7032         -4.857272e-02 -2.251402e-01          -0.1   0
## 7033          3.756925e-02  1.134158e-01          -0.1   0
## 7034          5.144044e-02 -2.970612e-02          -0.2   0
## 7035         -8.364680e-02 -2.967711e-01          -0.4   0
## 7036         -1.904456e-02 -2.590923e-01          -0.1   0
## 7037         -2.382604e-02 -2.122153e-02          -0.2   0
## 7038          7.425788e-02  2.596154e-01           0.3   1
## 7039          7.707174e-03 -1.041667e-02          -0.2   0
## 7040         -3.117488e-02 -1.292210e-01           0.0   1
## 7041          1.582009e-02 -2.062011e-01           0.0   0
## 7042          5.778254e-02  1.522668e-01           0.0   1
## 7043         -9.634233e-02 -2.166312e-01          -0.1   0
## 7044          1.984205e-02  2.448284e-01           0.0   1
## 7045         -3.890775e-02 -1.967622e-01          -0.1   0
## 7046         -2.505631e-02 -2.306340e-01           0.0   0
## 7047          3.789034e-02  1.351999e-01           0.1   0
## 7048          1.503767e-02  8.033058e-03           0.2   1
## 7049          1.423904e-02 -7.996224e-02          -0.1   0
## 7050          3.207729e-02  9.345497e-02           0.2   1
## 7051         -1.310573e-02 -7.575758e-02           0.1   0
## 7052          2.468580e-02  1.456583e-01           0.2   0
## 7053         -8.110820e-02 -7.043651e-02           0.2   0
## 7054          1.156289e-02 -1.492322e-02           0.4   1
## 7055         -6.174189e-02  1.282051e-01          -0.1   1
## 7056          1.931069e-02 -6.497552e-02          -0.2   1
## 7057         -7.264005e-02  2.441811e-02           0.1   1
## 7058          1.634179e-02  1.778619e-01           0.1   1
## 7059          5.847322e-02  1.726747e-01           0.4   1
## 7060          2.356378e-02  4.166667e-02           0.2   1
## 7061         -1.697735e-02 -3.394132e-02           0.1   1
## 7062          6.562276e-02  6.959707e-02           0.2   1
## 7063          2.424025e-02  2.301878e-01           0.3   1
## 7064         -2.674040e-02 -1.950642e-01          -0.1   0
## 7065         -4.807688e-02 -3.926554e-01          -0.5   0
## 7066         -6.340569e-02 -1.357759e-01          -0.3   1
```

```
## 7067          2.644684e-02 -1.533333e-01          0.0   1
## 7068          1.456550e-01  4.386966e-01          0.4   1
## 7069         -5.241754e-03 -6.085193e-02         -0.1   0
## 7070         -1.396047e-02 -1.378391e-01         -0.1   0
## 7071         -6.584611e-03 -8.210021e-02         -0.1   0
## 7072         -4.287737e-02 -1.087719e-01         -0.2   0
## 7073         -4.588259e-02 -1.212121e-01         -0.1   0
## 7074          4.365503e-03 -6.304868e-02         -0.3   0
## 7075          8.101564e-02  2.190410e-01          0.2   1
## 7076          1.569520e-02 -1.433692e-02          0.0   1
## 7077         -2.715154e-02 -5.314368e-03          0.4   0
## 7078         -4.553380e-03  1.280628e-01          0.1   1
## 7079         -3.851625e-03  1.237664e-01          0.2   1
## 7080         -3.520193e-02 -1.165002e-01         -0.3   0
## 7081          1.947237e-02  9.504863e-03          0.1   1
## 7082         -1.382656e-01 -5.229885e-01         -0.5   0
## 7083         -4.337027e-02 -1.837140e-01         -0.2   0
## 7084          2.001233e-02 -4.823428e-02         -0.1   1
## 7085         -2.604848e-02 -9.765171e-03          0.0   1
## 7086          3.149695e-02  1.008260e-01          0.0   1
## 7087          5.301749e-02  2.101717e-01          0.1   1
## 7088         -1.812348e-02 -3.315815e-01         -0.4   0
## 7089         -2.821406e-02 -6.560284e-02          0.0   1
## 7090          7.718212e-02  2.315361e-01          0.0   1
## 7091         -1.925119e-02  2.489177e-02          0.5   0
## 7092         -1.876335e-02 -6.728627e-02          0.0   0
## 7093          5.474692e-02  2.755447e-01          0.1   1
## 7094          1.832386e-02 -2.285714e-02          0.0   1
## 7095          1.367286e-02  1.285403e-01          0.4   0
## 7096          4.974342e-02  1.504817e-01          0.0   1
## 7097         -3.061722e-02  1.569215e-02         -0.1   1
## 7098         -4.660836e-02 -2.705401e-01         -0.3   0
## 7099          3.363516e-02  1.590484e-01         -0.1   1
## 7100         -2.467733e-02  6.071429e-03         -0.1   0
## 7101         -9.590506e-03  6.122449e-02          0.1   1
## 7102         -4.469835e-02 -2.713398e-01         -0.4   0
## 7103          7.578835e-02  3.968122e-01          0.4   1
## 7104         -2.462077e-03  1.148238e-01          0.2   0
## 7105         -2.655781e-02 -2.494804e-01         -0.1   0
## 7106          4.594337e-02 -1.581197e-01          0.0   0
## 7107          5.743228e-02  5.211599e-02          0.0   0
## 7108          2.500527e-04 -1.227718e-01          0.0   0
## 7109         -6.707743e-02 -2.073171e-01         -0.2   0
## 7110         -1.919628e-02 -3.541226e-01         -0.4   0
## 7111          6.829992e-02  2.807822e-01          0.3   1
## 7112         -6.689388e-02 -2.152754e-01         -0.1   1
## 7113          2.696694e-02  4.996544e-02          0.2   0
## 7114          1.615635e-02 -7.921106e-02          0.1   0
## 7115         -4.338153e-02 -1.157497e-01         -0.1   0
## 7116         -4.541176e-03 -1.215744e-01          0.0   0
## 7117         -2.801569e-02 -3.022324e-01         -0.4   1
## 7118         -4.371008e-03 -4.190237e-03          0.0   1
## 7119         -3.888535e-02 -1.150183e-01          0.0   1
## 7120         -9.215929e-02 -3.977551e-01         -0.2   1
## 7121          1.718402e-02 -3.246753e-03          0.0   0
## 7122         -6.068664e-03  6.825749e-02          0.0   0
## 7123          5.534419e-03  1.042017e-01          0.1   0
## 7124          2.686067e-02 -3.540367e-02          0.1   0
```

```
## 7125        -3.747252e-02 -1.170886e-01        -0.3    0
## 7126        -1.280115e-02  7.692308e-02         0.3    1
## 7127         5.838840e-02  3.474680e-02        -0.1    1
## 7128         4.037496e-02  2.083333e-02         0.0    1
## 7129         5.307379e-02  1.091270e-01        -0.2    0
## 7130         4.505157e-02  2.162413e-01         0.6    1
## 7131        -1.607528e-02 -6.160714e-02         0.3    0
## 7132        -1.311488e-02 -4.444444e-02         0.1    1
## 7133        -1.951583e-03 -1.668595e-01        -0.3    1
## 7134        -3.617128e-02 -1.714976e-01         0.0    0
## 7135        -3.417136e-02  9.772727e-02         0.0    1
## 7136        -7.237746e-02  2.283654e-02        -0.1    1
## 7137        -1.647366e-02  8.871795e-02         0.2    1
## 7138        -6.938549e-02 -3.481560e-01        -0.4    0
## 7139         4.293959e-02  7.906664e-02        -0.2    1
## 7140        -2.758156e-02 -1.608466e-01         0.0    0
## 7141         1.014190e-02 -9.552496e-02         0.0    1
## 7142        -2.686111e-02 -2.017502e-01        -0.1    0
## 7143        -9.580488e-03  2.286559e-02        -0.1    0
## 7144        -4.824237e-02 -2.011611e-01        -0.2    0
## 7145         1.110673e-02  2.095960e-01         0.3    0
## 7146         8.368014e-03 -3.208042e-02        -0.1    0
## 7147         2.160264e-02  1.081908e-01         0.2    0
## 7148         3.871340e-02  3.620835e-02         0.0    0
## 7149        -4.007095e-02 -3.936074e-02         0.1    0
## 7150         1.521092e-02  1.092607e-02        -0.1    0
## 7151        -2.422044e-03  6.492692e-02         0.0    1
## 7152         2.214036e-02  1.604278e-01         0.0    1
## 7153         7.484570e-03  7.670221e-02         0.0    1
## 7154         5.002336e-02  1.393521e-01         0.0    1
## 7155        -4.583536e-02 -3.726708e-02        -0.3    1
## 7156        -5.568800e-03  1.216981e-01         0.1    1
## 7157         8.784355e-02  1.395311e-01        -0.1    0
## 7158        -2.144386e-02  1.088850e-02         0.1    1
## 7159        -4.076902e-02  6.288304e-02         0.1    0
## 7160        -2.487628e-02 -1.434092e-01         0.0    0
## 7161        -9.170124e-04 -9.668920e-02        -0.2    0
## 7162        -2.711970e-02 -8.464247e-02        -0.3    1
## 7163        -9.911214e-03 -6.040152e-02        -0.2    1
## 7164         4.712975e-02  3.939394e-02         0.0    1
## 7165         2.017157e-02 -6.677993e-02         0.0    1
## 7166         1.327294e-02 -4.625005e-03        -0.1    0
## 7167         4.035559e-03 -1.361656e-01        -0.3    0
## 7168         3.271376e-02  3.512949e-02         0.1    1
## 7169         3.001600e-03 -8.793325e-02        -0.2    0
## 7170         4.041255e-02 -7.992276e-02         0.1    1
## 7171        -4.688778e-02 -3.034307e-01        -0.2    0
## 7172         4.060446e-02  0.000000e+00         0.0    0
## 7173        -8.460319e-03 -4.775828e-02        -0.3    0
## 7174        -4.067604e-02  7.440144e-02        -0.1    0
## 7175        -2.244398e-02 -1.571429e-01        -0.1    1
## 7176         3.841976e-02  1.498274e-01         0.2    1
## 7177         6.005147e-02  1.696799e-01         0.2    1
## 7178         4.172563e-02  3.605016e-02        -0.2    0
## 7179        -1.129447e-02  3.664846e-02         0.1    1
## 7180        -4.687227e-02 -1.057929e-01        -0.1    1
## 7181        -8.115243e-02 -1.908700e-01        -0.3    0
## 7182        -2.837528e-02 -3.278761e-01        -0.1    1
```

```
## 7183         -3.182445e-02 -1.203704e-02          -0.2    0
## 7184          8.681931e-02  2.670487e-01           0.3    1
## 7185         -5.989705e-02 -3.773723e-01          -0.3    0
## 7186         -1.018776e-02  6.715064e-02           0.4    1
## 7187          3.496408e-03  8.474194e-02           0.1    1
## 7188          1.087260e-01  2.014536e-01           0.1    1
## 7189         -3.584114e-02 -1.028708e-01          -0.1    1
## 7190          1.127691e-02  2.010995e-01           0.3    1
## 7191          1.162440e-02  4.174573e-03           0.0    1
## 7192          4.329278e-02  2.261692e-02           0.1    1
## 7193          9.366661e-03 -7.116869e-02          -0.1    0
## 7194         -3.932814e-02 -1.401996e-01          -0.1    0
## 7195         -1.809408e-02 -9.932593e-02          -0.2    0
## 7196         -3.792937e-02  7.387141e-02           0.3    0
## 7197         -6.881665e-02 -2.962185e-01          -0.1    0
## 7198          8.327453e-02  4.254363e-01           0.8    0
## 7199          3.124015e-02  1.231456e-02           0.0    0
## 7200         -2.433038e-02 -5.612483e-02          -0.1    1
## 7201          3.697242e-02  2.909091e-01           0.5    1
## 7202         -8.523792e-02 -3.488035e-01          -0.1    0
## 7203         -9.243164e-03  8.965517e-02           0.6    0
## 7204         -3.049791e-02  1.604010e-01           0.1    0
## 7205         -4.324211e-02 -1.399304e-01          -0.3    1
## 7206          6.991417e-02  3.576799e-01           0.3    1
## 7207          1.568109e-02 -2.039216e-02           0.1    1
## 7208         -5.062349e-02 -8.612472e-02           0.3    0
## 7209         -3.120773e-03 -4.304029e-02          -0.2    1
## 7210          2.417839e-02  1.315580e-01           0.0    1
## 7211          8.124473e-02  4.046217e-01           0.3    1
## 7212         -7.826255e-02 -2.849057e-01          -0.6    0
## 7213         -3.023298e-02 -1.172414e-01           0.0    0
## 7214         -3.503341e-03 -1.153374e-01          -0.2    0
## 7215          5.086553e-02  1.499039e-01           0.1    1
## 7216          2.405820e-03 -9.286792e-02          -0.2    1
## 7217          4.666247e-02 -1.243243e-01          -0.1    1
## 7218         -1.694662e-02 -1.178375e-01          -0.6    0
## 7219         -3.864658e-02 -8.603506e-02           0.2    1
## 7220         -5.401630e-03 -2.330410e-01          -0.4    1
## 7221          2.554281e-02  8.796296e-02           0.4    1
## 7222          1.905087e-02  1.671642e-01           0.2    1
## 7223         -3.573844e-02 -1.192522e-01          -0.5    0
## 7224         -7.002446e-02 -1.563751e-01          -0.4    0
## 7225         -9.828641e-03  8.259587e-02           0.5    1
## 7226         -2.016912e-02 -3.609802e-01          -0.4    0
## 7227          8.415926e-02  5.650794e-01           0.4    1
## 7228         -4.603391e-02 -1.943354e-01          -0.5    0
## 7229          8.718997e-02  3.261113e-01           0.5    1
## 7230         -3.672319e-03  1.717172e-02           0.0    1
## 7231          6.622196e-02  3.802044e-01           0.3    1
## 7232          4.206883e-02  3.287785e-01           0.1    1
## 7233         -6.795832e-02 -3.679254e-01          -0.1    0
## 7234          1.848213e-02  6.614629e-02           0.0    1
## 7235         -5.942485e-02 -1.809726e-01           0.3    1
## 7236          1.621954e-02  7.513228e-02           0.2    1
## 7237         -1.522311e-02  1.793565e-01           0.2    1
## 7238          4.005103e-02 -1.586538e-02           0.0    0
## 7239          2.778952e-02  2.225448e-02           0.1    0
## 7240          7.629484e-02  4.560606e-01           0.3    1
```

```
## 7241         -3.723140e-02 -1.185031e-01          -0.4   0
## 7242          1.103391e-01  2.804314e-01           0.3   0
## 7243         -2.851568e-02  2.101449e-01           0.1   0
## 7244          7.128394e-02  3.033682e-01           0.3   1
## 7245          4.944591e-02  1.432361e-02           0.1   1
## 7246         -8.040251e-03 -1.326550e-01           0.0   0
## 7247          9.020881e-02  4.065354e-01           0.5   0
## 7248         -2.517268e-02 -1.671109e-01          -0.2   1
## 7249          5.722527e-03  6.545545e-02           0.0   1
## 7250          2.013798e-03  2.685825e-01           0.4   1
## 7251          1.023280e-02  2.546440e-01           0.2   1
## 7252          1.710936e-02  2.806657e-01           0.3   1
## 7253          1.076627e-02 -6.351351e-02           0.0   0
## 7254          4.320083e-02  3.643355e-01           0.2   1
## 7255          5.025833e-02  3.850932e-01           0.1   1
## 7256          1.697294e-03  7.608696e-02          -0.1   1
## 7257         -4.021663e-02 -1.801802e-01          -0.2   1
## 7258          6.641339e-03  1.350833e-01           0.0   1
## 7259          2.200524e-02  2.429030e-01           0.4   1
## 7260         -2.765008e-02  4.438998e-02          -0.1   1
## 7261          4.714909e-04 -7.856614e-02           0.1   1
## 7262          6.347456e-02  2.530120e-01           0.0   1
## 7263         -5.121964e-03 -6.547619e-02          -0.3   1
## 7264         -4.644491e-02  1.666667e-02          -0.3   1
## 7265          1.723946e-02 -1.261134e-01           0.1   1
## 7266         -2.830158e-03 -1.155797e-01           0.1   0
## 7267         -1.371734e-02  6.664595e-02           0.0   1
## 7268          2.098799e-02 -3.477654e-01          -0.3   1
## 7269          1.835393e-02  5.782520e-02           0.1   1
## 7270          2.345631e-02  2.326446e-01           0.1   1
## 7271          1.809564e-02  2.378231e-01           0.0   1
## 7272          5.993721e-02  2.180919e-01           0.2   1
## 7273         -3.440783e-02 -2.688345e-01          -0.1   0
## 7274         -5.891704e-02 -2.184085e-01           0.1   0
## 7275         -6.249643e-04  4.400345e-02           0.1   1
## 7276         -6.115359e-02 -9.624258e-03          -0.3   0
## 7277         -2.146387e-03  3.119430e-01           0.3   1
## 7278          2.429816e-02  1.811127e-01           0.0   1
## 7279          2.968401e-03 -1.563492e-01          -0.2   0
## 7280          1.814790e-02 -2.462316e-02          -0.1   1
## 7281         -9.143310e-02 -1.460554e-01          -0.2   0
## 7282          2.256268e-02  1.802481e-01           0.2   1
## 7283          4.220523e-04  1.097911e-01           0.1   1
## 7284          2.758065e-02 -2.078423e-01          -0.3   0
## 7285         -1.868695e-02 -7.752571e-02           0.1   1
## 7286          6.703683e-02  2.670455e-01           0.1   0
## 7287         -4.785449e-02 -4.298624e-02          -0.2   0
## 7288          3.141747e-02  1.466667e-01           0.3   1
## 7289          5.700726e-02 -6.219493e-03          -0.1   1
## 7290          1.651941e-02  1.112569e-01           0.2   1
## 7291         -1.053389e-02  5.000000e-02          -0.1   1
## 7292         -1.099152e-02 -4.268635e-02           0.2   0
## 7293         -6.360683e-02 -1.911469e-02          -0.2   1
## 7294          1.354153e-02  2.000000e-02           0.1   1
## 7295         -1.585341e-02  5.122951e-02           0.0   1
## 7296          1.471716e-02  6.896552e-02           0.3   0
## 7297          1.357650e-03  2.985639e-02           0.0   0
## 7298          1.325076e-04  8.837025e-02          -0.1   1
```

```
## 7299          3.482862e-02 -5.714286e-02          -0.1    0
## 7300         -9.166842e-03  3.501908e-02           0.0    0
## 7301          4.257403e-02  3.898635e-02           0.3    1
## 7302          3.489175e-02  1.988304e-01           0.0    1
## 7303         -3.736259e-02 -2.722968e-01          -0.3    0
## 7304          2.717922e-02  3.175177e-01           0.4    1
## 7305         -3.115357e-02 -1.551910e-01          -0.1    0
## 7306          4.959333e-03  1.376344e-01           0.3    1
## 7307          8.359389e-02  2.908432e-01           0.2    1
## 7308          8.284503e-02  8.090909e-02          -0.2    1
## 7309          1.017927e-02  8.589427e-02           0.1    1
## 7310          1.407089e-02 -1.212362e-01          -0.3    1
## 7311          1.312019e-02 -9.874608e-02           0.0    1
## 7312          5.753310e-02 -2.651515e-02          -0.2    0
## 7313          2.740832e-02  9.463487e-02           0.3    0
## 7314         -2.808824e-02 -8.903226e-02          -0.1    1
## 7315         -8.841125e-03 -7.357320e-02          -0.4    1
## 7316          2.225173e-02  8.367209e-02           0.0    1
## 7317          8.297613e-02  2.111475e-01           0.2    1
## 7318          1.867604e-03  2.604382e-02          -0.2    0
## 7319         -7.794536e-02 -1.478992e-01          -0.2    0
## 7320         -4.495706e-02 -1.535088e-01          -0.4    0
## 7321          8.682676e-03 -8.992095e-02           0.0    1
## 7322          1.016973e-03  1.033634e-01          -0.2    0
## 7323          1.353689e-02  5.700761e-02          -0.1    0
## 7324          6.524951e-02  6.428571e-02           0.2    1
## 7325          7.737331e-03  1.062271e-01           0.2    1
## 7326         -6.117911e-02 -1.969165e-01          -0.2    0
## 7327          4.961999e-02  2.762290e-01           0.3    0
## 7328         -3.802236e-02  1.339286e-01           0.1    1
## 7329          8.490272e-02  1.645485e-01           0.1    0
## 7330          9.213992e-03  2.353252e-02           0.0    0
## 7331         -2.329622e-02  1.904762e-02           0.3    1
## 7332          2.587992e-02 -8.001842e-02          -0.1    1
## 7333          8.209537e-02  1.617162e-01           0.0    1
## 7334          3.028708e-02 -4.636591e-02          -0.1    1
## 7335         -2.780070e-02 -6.578790e-02           0.2    1
## 7336          1.053191e-01  2.540476e-01           0.0    1
## 7337         -2.107610e-02  6.667569e-02           0.2    0
## 7338          3.004590e-02  0.000000e+00          -0.1    0
## 7339          3.546752e-02  2.435065e-01           0.3    1
## 7340          1.929311e-02 -2.284542e-02           0.0    0
## 7341          2.862267e-03 -9.017628e-02          -0.1    0
## 7342         -5.151682e-02 -8.368421e-02          -0.4    1
## 7343         -2.934655e-02 -1.634751e-01           0.0    0
## 7344          3.696222e-02  1.683007e-01           0.3    0
## 7345         -1.976389e-02  4.086687e-02          -0.1    0
## 7346          8.283904e-02  1.377975e-01          -0.1    0
## 7347          9.972922e-04  1.368159e-01           0.0    1
## 7348          5.317561e-02  1.039604e-01           0.6    1
## 7349         -9.129796e-02 -8.653053e-02           0.2    1
## 7350          3.642794e-02 -5.037192e-02           0.1    1
## 7351         -5.435242e-02 -5.349398e-02          -0.1    0
## 7352          1.612854e-02 -5.633803e-03          -0.2    1
## 7353         -2.158451e-02 -1.087894e-01          -0.1    1
## 7354         -4.653044e-02 -8.697047e-02          -0.1    1
## 7355          1.786441e-02  2.558514e-02           0.1    1
## 7356         -8.616827e-03 -8.258065e-02           0.1    0
```

317

```
## 7357         2.032774e-02  1.062500e-01          0.0   0
## 7358        -2.066945e-02 -4.623656e-02          0.0   0
## 7359        -4.288678e-02 -2.821869e-02         -0.1   0
## 7360         4.172511e-02  3.447727e-01          0.4   1
## 7361        -2.437451e-03  1.542663e-01          0.3   1
## 7362         2.031451e-03 -1.212252e-01         -0.1   0
## 7363        -4.122646e-02 -4.876238e-02          0.0   1
## 7364         3.901892e-02  3.522727e-01          0.1   1
## 7365         1.870251e-02  3.071364e-02          0.1   0
## 7366        -1.912991e-02 -2.777778e-03          0.1   1
## 7367         4.957218e-03 -8.449804e-02         -0.3   0
## 7368         9.827662e-02  2.044944e-01          0.2   0
## 7369        -1.381201e-02  1.222883e-01          0.4   1
## 7370        -1.212477e-02  1.988636e-02         -0.1   0
## 7371        -5.124428e-02 -9.457128e-02         -0.2   1
## 7372        -7.134386e-02 -4.517007e-01         -0.4   0
## 7373         5.739833e-02  3.448276e-02         -0.1   1
## 7374         7.303366e-02  2.098039e-01          0.1   0
## 7375         7.820753e-03 -2.644928e-02         -0.1   0
## 7376         6.829990e-02  2.215557e-01          0.0   0
## 7377        -7.114813e-02 -1.343583e-01         -0.2   0
## 7378         1.059465e-01  9.090909e-02          0.2   1
## 7379        -4.656231e-02 -1.653117e-01         -0.1   0
## 7380         1.063640e-01  1.108225e-01          0.0   1
## 7381        -2.776053e-05 -9.310254e-02         -0.1   1
## 7382        -5.614578e-02 -1.008274e-01         -0.2   0
## 7383        -7.517806e-03 -1.094434e-02         -0.1   1
## 7384        -4.370580e-02  2.790347e-02         -0.1   1
## 7385        -2.266243e-02 -7.326007e-02         -0.1   1
## 7386        -2.921989e-02  6.492501e-02          0.1   0
## 7387        -9.484987e-03 -2.173913e-02         -0.1   1
## 7388         1.178741e-01  9.876445e-02          0.2   1
## 7389         3.057601e-02  1.263486e-01          0.2   0
## 7390         8.678759e-02  2.896471e-01          0.1   1
## 7391         1.803591e-02  4.242424e-02          0.3   0
## 7392         3.396636e-02 -1.125281e-02         -0.3   0
## 7393        -6.367794e-03 -1.979167e-02         -0.4   0
## 7394        -8.070441e-02 -2.693383e-01         -0.2   0
## 7395        -1.352905e-01 -5.000000e-01         -0.3   0
## 7396         2.883907e-02 -1.377507e-02          0.3   0
## 7397         4.726035e-02 -3.387271e-02         -0.1   0
## 7398        -1.800521e-02  1.129518e-03         -0.1   0
## 7399        -1.461433e-02 -1.128698e-01         -0.1   0
## 7400        -6.182882e-02 -1.935380e-01         -0.1   0
## 7401         2.402454e-02  1.998746e-02         -0.3   0
## 7402        -5.679140e-02 -1.665673e-01          0.1   0
## 7403         8.251845e-02  2.694920e-01          0.2   1
## 7404        -5.310498e-03  1.286781e-01          0.2   0
## 7405         5.226958e-02  7.677709e-02          0.1   1
## 7406         8.269335e-02  1.501071e-01         -0.1   0
## 7407        -6.961834e-02 -3.346774e-01         -0.1   1
## 7408        -8.908809e-02 -1.958893e-01          0.1   1
## 7409         6.786735e-02  3.133117e-02         -0.2   0
## 7410         2.877958e-02  2.559340e-02          0.0   1
## 7411         3.624186e-02  2.110599e-01          0.3   1
## 7412        -2.587457e-02 -1.319161e-01          0.0   0
## 7413         9.281438e-03 -9.236011e-02          0.0   0
## 7414         3.847209e-03 -3.895275e-02          0.1   1
```

```
## 7415          -5.094403e-02 -2.148307e-01          -0.2  1
## 7416           6.448234e-02  1.858243e-01           0.0  1
## 7417          -4.472125e-02 -3.030985e-01          -0.6  0
## 7418           1.017559e-02 -3.007519e-02           0.0  1
## 7419           2.293127e-03 -8.361204e-02           0.0  1
## 7420          -4.976213e-03 -1.756757e-01           0.0  0
## 7421           2.037157e-02 -3.377778e-02          -0.1  1
## 7422           6.652579e-03 -1.510204e-01          -0.4  0
## 7423           2.565653e-02  2.621622e-01           0.4  1
## 7424          -1.114267e-02 -1.104400e-01          -0.1  0
## 7425          -7.902110e-02 -2.970323e-01          -0.4  1
## 7426           1.748801e-02 -7.126488e-02          -0.2  0
## 7427           5.877473e-02  2.117512e-01           0.1  1
## 7428          -7.869009e-03  5.456133e-02           0.0  1
## 7429          -2.378054e-02  1.533742e-02          -0.1  0
## 7430           5.033673e-02  2.516026e-01           0.3  1
## 7431          -3.921440e-02 -5.454545e-02           0.0  0
## 7432          -1.398940e-02 -9.604303e-03          -0.2  0
## 7433          -6.794180e-02  1.010101e-02          -0.3  0
## 7434           2.054761e-02  5.288227e-02           0.1  1
## 7435          -1.518428e-02 -1.455803e-01          -0.1  1
## 7436          -1.023706e-01 -1.212582e-01          -0.4  1
## 7437          -3.048526e-02  8.643560e-02           0.0  1
## 7438          -7.008620e-02 -4.476044e-01          -0.4  1
## 7439          -5.434451e-02 -1.635514e-01          -0.1  1
## 7440           4.406148e-03  1.607843e-01           0.0  1
## 7441          -3.534431e-02  8.852306e-03           0.1  0
## 7442          -5.627490e-02 -3.095413e-01          -0.2  0
## 7443          -6.539851e-03  7.246377e-03           0.4  1
## 7444           9.168656e-03  1.145946e-01          -0.1  1
## 7445          -5.139496e-02  4.431726e-02           0.5  1
## 7446           5.847518e-03 -1.984127e-01          -0.3  0
## 7447          -5.782909e-02 -1.725106e-01          -0.3  0
## 7448          -3.255714e-02  6.912442e-03           0.0  1
## 7449          -2.517545e-02 -7.363986e-02          -0.1  0
## 7450           4.492241e-02  1.946589e-02           0.2  0
## 7451           1.763213e-02 -1.454545e-03           0.0  1
## 7452           2.969375e-02  3.420370e-02           0.3  0
## 7453          -3.871554e-02 -1.890706e-01           0.1  1
## 7454           1.436225e-02  1.366729e-01           0.1  0
## 7455          -1.251400e-02 -3.568677e-02           0.2  0
## 7456           5.335622e-02  2.478723e-01           0.4  1
## 7457          -1.277060e-02  8.021978e-02           0.5  0
## 7458          -6.908017e-02 -1.660232e-01          -0.2  0
## 7459           4.656411e-02  3.201613e-01           0.4  1
## 7460           8.389186e-03  1.591837e-01           0.5  1
## 7461           7.789627e-02  1.712355e-01           0.2  1
## 7462           1.100865e-02 -5.122439e-02           0.0  0
## 7463          -2.872785e-02 -1.634820e-01          -0.1  0
## 7464          -1.201666e-02  4.920863e-02           0.0  1
## 7465           2.029142e-02  7.286720e-03           0.1  1
## 7466           2.107316e-02 -4.431960e-02          -0.5  0
## 7467           2.501614e-03  4.642857e-02           0.2  0
## 7468          -1.520036e-02  5.819250e-02           0.0  0
## 7469           1.084270e-02  1.358543e-01           0.3  1
## 7470           4.736087e-02  1.124929e-01           0.2  1
## 7471          -5.494717e-03  1.263524e-01          -0.1  0
## 7472          -3.937000e-03 -1.525601e-01          -0.4  0
```

```
## 7473          -8.868820e-02 -7.466795e-02          0.2   0
## 7474           3.170270e-03  1.600174e-01          0.1   1
## 7475          -5.742416e-02 -1.768882e-01          0.3   1
## 7476           5.790617e-02  1.421293e-01          0.1   1
## 7477           4.235078e-02  1.097744e-01          0.2   0
## 7478           1.842178e-02  1.582757e-02         -0.1   1
## 7479           2.569522e-02  6.288725e-02          0.0   1
## 7480           1.779069e-02  1.612317e-01          0.1   1
## 7481           5.851424e-02  6.024306e-02         -0.4   1
## 7482          -4.546451e-03  1.739130e-01          0.1   1
## 7483          -4.449539e-02 -2.224979e-01         -0.2   0
## 7484           1.535993e-02  3.492239e-02          0.0   0
## 7485           1.980656e-02  8.255086e-02          0.4   1
## 7486           4.033930e-02 -6.401804e-02         -0.2   1
## 7487          -4.736327e-02 -3.333333e-01         -0.5   0
## 7488          -8.297765e-03 -4.285714e-02         -0.3   0
## 7489           3.993150e-02  7.200000e-02          0.0   1
## 7490           2.668392e-02  1.726962e-01          0.1   0
## 7491          -1.189750e-02  1.140973e-01          0.1   1
## 7492           3.403405e-02  1.303509e-01          0.2   1
## 7493          -2.554852e-02  5.429402e-02          0.0   1
## 7494           2.384444e-02 -5.633614e-02          0.2   0
## 7495           3.049697e-02  2.380952e-02         -0.1   1
## 7496           6.532010e-03  2.152045e-01          0.4   1
## 7497          -2.937504e-02  6.382979e-02          0.1   1
## 7498           2.074985e-02  1.610513e-01          0.0   0
## 7499          -6.588008e-03 -2.335400e-01         -0.3   0
## 7500          -1.345515e-02  4.771776e-02         -0.1   1
## 7501           5.837258e-03  8.856683e-02          0.0   1
## 7502          -1.018058e-02 -9.425287e-02          0.1   1
## 7503          -4.613134e-03  1.289990e-01          0.3   0
## 7504          -1.866903e-02 -1.139601e-02         -0.3   1
## 7505           6.579878e-02  2.845638e-01          0.4   1
## 7506          -5.076346e-02  3.030303e-02          0.0   0
## 7507           1.361523e-02  1.766234e-01          0.2   0
## 7508           5.309138e-02  1.125873e-01         -0.2   0
## 7509          -1.960294e-02 -1.696970e-01         -0.2   0
## 7510          -8.853745e-03  1.348615e-02          0.2   0
## 7511          -2.074810e-02 -1.762148e-01         -0.3   0
## 7512          -2.541429e-03 -2.705479e-01         -0.2   0
## 7513          -4.663665e-02 -1.025641e-01         -0.2   1
## 7514          -1.876200e-02  1.082251e-01          0.1   1
## 7515          -1.914620e-02  1.048387e-02          0.3   0
## 7516          -1.725141e-02 -5.000000e-02         -0.1   1
## 7517           5.868308e-02  3.181586e-01          0.2   1
## 7518           2.599295e-02  6.854385e-02          0.3   1
## 7519          -4.304230e-02 -1.533333e-01         -0.2   0
## 7520          -4.635073e-02 -1.903846e-01         -0.3   0
## 7521          -5.557039e-02 -2.885154e-01         -0.3   0
## 7522          -4.626253e-02 -1.225275e-01         -0.3   0
## 7523           1.002752e-02  3.446573e-02          0.1   1
## 7524           3.731190e-02  1.147327e-01         -0.1   1
## 7525          -1.491360e-03  1.502683e-01          0.2   0
## 7526           2.551610e-02 -1.235914e-02          0.1   0
## 7527           3.064317e-02  1.616470e-01          0.1   0
## 7528           3.299150e-02  7.920083e-02         -0.2   0
## 7529           3.000374e-02  1.338157e-01         -0.2   1
## 7530           1.528287e-02 -1.887533e-01         -0.2   0
```

```
## 7531          5.722058e-02  2.631579e-01              0.2    1
## 7532          5.183561e-03 -1.116273e-01              0.0    1
## 7533         -3.246267e-02 -1.143617e-01              0.0    0
## 7534          2.535945e-02  5.832648e-02             -0.1    0
## 7535          1.589580e-02  5.576266e-02              0.0    0
## 7536          1.288192e-01  2.569444e-01              0.1    0
## 7537         -9.865067e-02 -1.885346e-01             -0.2    0
## 7538          1.911170e-02 -7.033421e-02             -0.5    1
## 7539          1.369125e-03  1.766060e-01              0.1    1
## 7540         -1.494589e-02 -1.039056e-01              0.0    0
## 7541         -3.453980e-02 -9.455668e-02             -0.1    0
## 7542          6.596494e-02  1.032194e-01              0.7    1
## 7543         -2.167648e-02 -1.260779e-01             -0.1    0
## 7544         -8.657904e-02 -1.644730e-01             -0.3    0
## 7545         -2.502762e-02  1.093316e-01              0.0    1
## 7546          7.993418e-03  7.155412e-02             -0.1    1
## 7547          2.349566e-02  1.619882e-01             -0.1    0
## 7548          1.913390e-03  1.180292e-01              0.4    1
## 7549          2.273011e-02  7.159091e-02              0.0    0
## 7550          3.446060e-02  2.024462e-01              0.4    0
## 7551         -3.696764e-02 -2.047279e-01             -0.4    1
## 7552          5.187003e-02  3.509691e-02              0.1    1
## 7553          6.345329e-02  2.153020e-01              0.4    1
## 7554         -5.440379e-02 -4.159408e-02              0.1    1
## 7555         -5.965784e-02 -1.213675e-01              0.0    1
## 7556          4.237761e-02  5.110215e-02              0.4    0
## 7557          7.416246e-02  2.747978e-01              0.3    0
## 7558         -3.314107e-02 -1.497384e-01             -0.1    1
## 7559          5.652812e-03  8.672591e-02              0.3    0
## 7560         -5.878117e-02 -8.999334e-02             -0.4    1
## 7561          1.227184e-02  2.489940e-02              0.1    1
## 7562         -9.789625e-03 -6.454545e-02             -0.4    0
## 7563          8.226449e-02  1.562486e-01             -0.1    1
## 7564          6.021556e-02  4.828729e-02             -0.7    0
## 7565         -9.346715e-03 -1.993690e-02             -0.2    1
## 7566          3.906042e-02  1.142857e-02             -0.2    0
## 7567         -4.881577e-02 -3.034945e-01             -0.3    0
## 7568         -1.870526e-03  7.427152e-02              0.0    1
## 7569          6.375986e-02  2.143113e-01              0.1    1
## 7570         -9.431933e-02 -5.818027e-01             -0.7    0
## 7571         -9.781814e-02 -3.244681e-01             -0.5    0
## 7572         -7.306952e-02 -2.434901e-01             -0.3    1
## 7573          5.306513e-02  1.902165e-01              0.1    0
## 7574          4.570458e-02  1.782442e-01              0.3    1
## 7575         -2.116705e-03 -1.377778e-01              0.0    1
## 7576          3.241407e-02  9.794551e-02              0.1    1
## 7577         -6.025846e-02 -3.538647e-01             -0.5    1
## 7578         -5.331414e-02 -2.495105e-01             -0.3    0
## 7579         -7.311469e-02 -1.819669e-02              0.3    0
## 7580         -7.243838e-02 -3.838924e-02              0.4    0
## 7581         -5.585086e-02 -2.797475e-01             -0.2    0
## 7582          4.745402e-02  4.000000e-01              0.3    1
## 7583          4.464324e-02  5.019493e-02              0.0    1
## 7584         -1.317774e-02 -2.906504e-01             -0.1    0
## 7585         -1.259254e-02 -9.453782e-02             -0.1    1
## 7586         -5.074449e-02 -3.016258e-01              0.0    1
## 7587         -8.971896e-03 -1.009659e-01             -0.2    0
## 7588          3.091914e-02 -1.287106e-01             -0.4    1
```

```
## 7589            1.095342e-02  2.560877e-01              0.4   0
## 7590           -1.695415e-02 -2.017901e-01             -0.2   0
## 7591            1.037032e-01  4.744939e-01              0.3   1
## 7592            2.110384e-02 -1.126552e-01              0.1   1
## 7593            6.011605e-02  9.617410e-02             -0.1   1
## 7594            1.317732e-02  9.099617e-03              0.0   1
## 7595            7.208381e-02  2.016865e-01             -0.2   1
## 7596           -1.676146e-02  2.355020e-01              0.2   1
## 7597           -1.084734e-02  5.430545e-02              0.2   1
## 7598            2.329082e-02 -1.845238e-01              0.2   1
## 7599            7.755526e-02  2.295116e-01              0.3   1
## 7600           -1.334446e-02  4.276282e-02             -0.1   1
## 7601           -7.518783e-02 -8.529775e-02             -0.3   0
## 7602           -1.624972e-02 -9.396552e-02              0.2   1
## 7603           -2.081997e-02 -3.838384e-02             -0.2   0
## 7604           -5.181355e-02 -1.142857e-01             -0.4   1
## 7605            4.139409e-02 -6.096814e-02              0.1   1
## 7606            2.671424e-02  8.029473e-02             -0.2   1
## 7607            8.251565e-03  4.739292e-02             -0.1   1
## 7608            1.318794e-02  8.698830e-02              0.2   0
## 7609           -1.222530e-02  9.883602e-02              0.6   1
## 7610           -2.050854e-02  5.047059e-02              0.0   1
## 7611            2.305199e-02  1.547152e-01              0.0   0
## 7612            1.721439e-02  1.408973e-02              0.2   0
## 7613            6.046546e-02 -1.170238e-02              0.1   1
## 7614            3.929085e-03 -8.809126e-02             -0.2   0
## 7615            1.766782e-02  5.211544e-02              0.4   1
## 7616           -3.437455e-02 -1.376124e-01              0.1   0
## 7617           -5.489696e-02 -3.137553e-02              0.2   0
## 7618            8.226466e-03  1.036733e-02             -0.2   0
## 7619           -1.333863e-02  7.342702e-02              0.1   1
## 7620           -6.369325e-02 -2.636371e-01             -0.1   0
## 7621           -4.618055e-02 -3.551562e-02             -0.7   1
## 7622            5.350979e-02  1.824839e-02              0.3   1
## 7623            4.395998e-02 -1.569065e-02              0.2   1
## 7624           -3.938561e-02 -3.391026e-01             -0.1   0
## 7625            6.541273e-03 -2.125233e-02             -0.3   0
## 7626            3.120599e-02  7.752468e-02              0.1   1
## 7627            6.926071e-02  2.237288e-01              0.3   1
## 7628            5.216710e-02  2.289217e-01              0.3   1
## 7629           -5.302583e-02 -1.157482e-01              0.1   0
## 7630            2.713031e-02  5.301837e-02              0.2   1
## 7631            5.418462e-02  4.549474e-01              0.5   1
## 7632           -6.602950e-02 -2.177937e-01             -0.2   0
## 7633           -1.542135e-02 -1.100302e-01              0.1   1
## 7634            2.857545e-03 -3.446115e-03              0.2   0
## 7635            2.324506e-02  1.777088e-01              0.2   1
## 7636            8.363753e-02  4.493248e-01              0.6   1
## 7637            3.174061e-03 -5.988752e-03              0.0   0
## 7638           -4.024681e-02 -2.866703e-01              0.1   1
## 7639           -1.914854e-02 -2.068806e-01             -0.2   0
## 7640           -5.364257e-02 -1.987640e-01              0.0   0
## 7641           -4.924224e-02 -3.530565e-01             -0.2   0
## 7642            4.303628e-02  1.405409e-01              0.0   1
## 7643           -3.112578e-02 -2.569293e-01             -0.4   0
## 7644            2.567222e-02 -2.154882e-01              0.0   1
## 7645            5.711028e-02  2.651529e-01              0.1   1
## 7646           -1.873250e-02  4.761905e-02              0.2   1
```

```
## 7647          2.104387e-02 -8.382931e-02         -0.2   1
## 7648         -2.745776e-02  1.113415e-01          0.1   0
## 7649          1.141899e-02  1.697780e-01          0.2   1
## 7650         -1.232990e-02  2.265766e-01          0.1   1
## 7651         -4.192282e-04  2.446634e-01         -0.1   1
## 7652         -5.415619e-02 -3.894160e-01         -0.2   0
## 7653          5.917725e-03 -3.843879e-03         -0.1   0
## 7654         -3.343246e-02 -1.813006e-02         -0.3   1
## 7655          3.955011e-02 -1.284027e-02          0.2   0
## 7656          1.575923e-02  6.725515e-03         -0.1   0
## 7657         -7.952815e-03 -1.454439e-01          0.0   0
## 7658          7.689570e-03 -6.990644e-02         -0.1   1
## 7659          1.852646e-02  6.970185e-02          0.1   1
## 7660         -6.439202e-02 -9.824561e-02         -0.1   1
## 7661         -3.503961e-02 -1.085417e-01         -0.3   1
## 7662         -5.383016e-02 -9.338235e-02         -0.5   0
## 7663          1.157449e-02  3.192935e-02         -0.1   0
## 7664          3.576873e-02 -4.761905e-02         -0.1   1
## 7665         -2.771457e-02 -1.315254e-01          0.1   0
## 7666          1.755397e-03  1.614377e-02          0.2   1
## 7667         -5.709759e-02 -1.979472e-01         -0.3   1
## 7668         -6.324726e-02 -9.177529e-02          0.2   0
## 7669         -2.421865e-02 -8.157895e-02         -0.1   0
## 7670         -2.642300e-02 -7.269504e-02         -0.4   0
## 7671         -3.245213e-03  9.664456e-02         -0.1   1
## 7672          2.415155e-02 -1.637588e-02          0.0   0
## 7673          3.418290e-02  2.674185e-01          0.3   1
## 7674         -1.641863e-03 -5.102041e-02         -0.6   0
## 7675          6.454826e-02  2.964141e-01          0.1   1
## 7676         -3.872309e-02 -1.921850e-01         -0.4   0
## 7677          3.578378e-02 -7.733640e-02          0.3   0
## 7678         -2.601682e-02 -1.580470e-01          0.1   0
## 7679         -3.771685e-02  1.307190e-02         -0.2   0
## 7680          1.416289e-02 -2.569757e-01         -0.2   1
## 7681         -3.627973e-02 -4.000000e-02          0.4   0
## 7682          5.269658e-02  8.795462e-02          0.0   1
## 7683         -1.826803e-02 -5.723684e-02         -0.4   0
## 7684         -2.421500e-02 -5.849871e-02          0.0   0
## 7685          2.006446e-02  1.519149e-01         -0.1   1
## 7686          3.463488e-04 -1.027569e-01          0.1   0
## 7687          2.066582e-02 -7.318567e-02         -0.2   1
## 7688         -2.073639e-02  1.123188e-01          0.2   1
## 7689          3.007012e-02  6.872636e-02          0.0   1
## 7690         -4.063384e-03 -4.450262e-02          0.3   0
## 7691          1.581042e-03 -5.527071e-02          0.0   0
## 7692         -1.948972e-02 -1.056060e-01          0.1   0
## 7693         -4.180710e-02 -3.235997e-02          0.1   1
## 7694         -1.566603e-03 -1.408585e-01         -0.3   0
## 7695          1.164893e-02  1.228202e-01          0.2   0
## 7696          4.416771e-02  3.603774e-01          0.3   1
## 7697         -2.093999e-02 -1.739130e-02         -0.3   0
## 7698         -2.026338e-02 -6.798416e-02          0.1   0
## 7699         -6.976486e-02 -1.860465e-01         -0.3   1
## 7700          1.140368e-03 -4.668511e-02         -0.1   1
## 7701         -2.961924e-02 -2.380952e-02          0.1   1
## 7702          2.253478e-02  2.226656e-01          0.5   1
## 7703         -3.384361e-02  1.855590e-01          0.5   0
## 7704         -4.896539e-02 -2.916667e-01         -0.4   0
```

323

```
## 7705          -6.941151e-03 -5.649433e-02           0.0   0
## 7706           4.098783e-02  1.169932e-01           0.1   1
## 7707          -1.409919e-02  9.564802e-02          -0.1   1
## 7708           1.052214e-02  2.702964e-01           0.2   0
## 7709          -3.516507e-03 -1.017852e-01          -0.3   0
## 7710           7.367350e-02  2.791283e-01           0.3   1
## 7711          -3.490835e-03 -2.831971e-01          -0.4   0
## 7712           7.741352e-04  1.347611e-02           0.1   0
## 7713          -1.308511e-02 -5.804954e-02           0.0   1
## 7714          -1.433944e-02  3.989797e-02           0.1   0
## 7715          -1.294379e-02  5.090312e-02           0.0   1
## 7716           2.367671e-03 -5.000000e-02          -0.4   0
## 7717          -5.111490e-02  8.928571e-02           0.2   1
## 7718          -3.517487e-02 -2.105219e-01           0.0   1
## 7719           2.168118e-02  1.454169e-01           0.0   1
## 7720           7.960847e-02  5.504587e-02           0.3   1
## 7721           6.256670e-02  2.013201e-01           0.0   1
## 7722          -3.591261e-02 -1.818428e-01           0.0   0
## 7723           1.767548e-02  2.986425e-01           0.0   1
## 7724           6.139035e-03  4.391340e-02           0.0   1
## 7725           9.704230e-02  3.932925e-01           0.4   1
## 7726          -6.621835e-02 -2.670581e-01          -0.1   0
## 7727           2.192412e-03  1.059565e-01           0.4   1
## 7728          -6.998902e-02 -1.897436e-01          -0.4   0
## 7729           5.164008e-02  1.542208e-02           0.3   0
## 7730           1.187113e-01  3.531034e-01           0.6   0
## 7731           2.256688e-03 -9.133127e-02           0.0   1
## 7732          -9.116323e-03  1.096346e-01           0.0   1
## 7733           4.655422e-02  1.465289e-01           0.0   1
## 7734           4.583648e-02  1.636302e-01           0.3   0
## 7735           2.004402e-02  5.201362e-02          -0.3   0
## 7736          -1.027312e-01 -3.605697e-01          -0.2   0
## 7737          -1.803867e-02 -2.216611e-02           0.2   1
## 7738           1.067198e-02  2.135774e-03          -0.1   0
## 7739           9.855742e-02  2.260870e-01          -0.1   1
## 7740          -4.846789e-02 -1.643527e-01          -0.2   0
## 7741           3.204154e-02  2.182806e-01           0.5   0
## 7742          -1.277656e-02 -3.037767e-02          -0.2   0
## 7743          -1.408265e-01 -2.879367e-01          -0.4   0
## 7744           7.621491e-02  5.084492e-01           0.7   1
## 7745          -1.241209e-02  1.190761e-01           0.5   0
## 7746           1.248257e-02  1.033842e-01           0.0   0
## 7747          -3.053497e-03  2.362691e-01           0.2   1
## 7748          -4.570104e-02 -1.507937e-01          -0.4   1
## 7749          -7.309360e-02 -4.462280e-01          -0.5   0
## 7750          -4.230354e-02 -4.384885e-01          -0.2   0
## 7751           3.930230e-02  1.231361e-01           0.1   0
## 7752           4.345957e-04 -8.877551e-02           0.0   1
## 7753          -7.312443e-03  1.953216e-01           0.6   1
## 7754          -4.153752e-02 -2.051427e-01          -0.2   0
## 7755          -1.132719e-03 -8.062988e-02          -0.3   0
## 7756           6.355412e-02  2.005495e-01           0.1   0
## 7757          -2.923833e-02 -3.548891e-01          -0.3   0
## 7758           4.574645e-02  1.806683e-01           0.1   1
## 7759          -1.358631e-02 -7.262164e-02           0.2   0
## 7760           5.052588e-02  7.352501e-02           0.1   1
## 7761          -5.110236e-02  1.517211e-01          -0.3   1
## 7762          -4.065721e-02 -3.586972e-02          -0.3   1
```

```
## 7763        -1.164709e-03 -6.011405e-02        -0.1   0
## 7764        -6.861432e-02 -3.357365e-01        -0.2   0
## 7765        -9.224292e-02 -2.932373e-01        -0.2   0
## 7766         2.197360e-02  1.250000e-01         0.4   1
## 7767        -1.306766e-01 -2.129032e-01        -0.5   0
## 7768        -7.360316e-02 -1.666667e-01        -0.3   0
## 7769         5.910519e-02  2.165352e-01         0.0   1
## 7770        -2.266878e-02  2.327935e-02        -0.1   1
## 7771         5.826486e-02  3.123131e-01         0.0   1
## 7772        -1.083474e-01 -3.756438e-01         0.1   0
## 7773         6.722307e-02  1.926641e-01         0.0   0
## 7774         4.694980e-02  2.902357e-01         0.5   1
## 7775         6.795926e-02 -2.021277e-02        -0.1   1
## 7776         3.542896e-02  2.027133e-01         0.2   1
## 7777        -1.727237e-02  2.262221e-02        -0.1   0
## 7778        -9.672514e-02 -5.631168e-01        -0.7   0
## 7779        -1.011405e-01 -4.701189e-01        -0.3   0
## 7780        -1.870226e-03 -1.479585e-01        -0.3   0
## 7781        -2.155012e-02 -1.911875e-02         0.1   1
## 7782         2.433622e-03 -2.383754e-01        -0.2   0
## 7783         3.154965e-02  2.292076e-01         0.2   1
## 7784        -1.276643e-02  6.854942e-02         0.0   0
## 7785         1.614948e-02  1.322819e-01         0.1   1
## 7786         5.232244e-02  1.723406e-01         0.2   1
## 7787         3.950571e-02  1.555830e-01        -0.1   1
## 7788         4.863869e-02  8.772615e-02         0.1   1
## 7789        -2.203663e-02 -2.038690e-01         0.0   0
## 7790         7.636080e-02  3.590635e-01         0.4   1
## 7791         1.096802e-01  4.330848e-01         0.2   1
## 7792        -4.610361e-02 -5.341019e-02        -0.2   1
## 7793        -6.746814e-02 -3.656788e-01        -0.4   0
## 7794        -7.501068e-02 -3.454568e-01         0.0   0
## 7795        -2.129496e-02 -4.748883e-02        -0.1   0
## 7796         3.004564e-02  3.237310e-01         0.2   1
## 7797         2.699038e-02  3.525641e-02         0.2   0
## 7798         4.700568e-02 -1.885006e-02         0.2   0
## 7799        -4.420088e-03 -1.532164e-01        -0.2   0
## 7800         7.420203e-02  2.587819e-01        -0.1   0
## 7801         3.435181e-02  2.798450e-01         0.4   1
## 7802         4.416049e-02  2.470689e-01         0.0   1
## 7803        -7.264405e-03 -1.159571e-01        -0.2   1
## 7804         1.119297e-03 -1.125466e-01        -0.1   1
## 7805         5.694861e-02  3.078451e-01         0.2   1
## 7806         2.603163e-02  1.867725e-01         0.1   1
## 7807         3.405416e-02  2.155907e-01         0.3   1
## 7808        -1.419853e-02 -1.775742e-02        -0.2   0
## 7809         1.914510e-02  1.105263e-01         0.5   0
## 7810        -6.709843e-03  1.831776e-01         0.4   1
## 7811         1.459062e-03 -2.265967e-01         0.0   1
## 7812         1.593590e-02  9.671465e-02         0.3   0
## 7813        -1.096372e-02 -9.827044e-03        -0.2   1
## 7814        -5.510672e-02 -1.666388e-01         0.0   1
## 7815        -1.735767e-02  7.460317e-02         0.0   0
## 7816         3.540518e-02 -5.700303e-02         0.1   1
## 7817        -2.918097e-02 -8.605135e-02        -0.2   1
## 7818        -1.892987e-02 -7.745267e-02        -0.3   0
## 7819        -1.713404e-02 -1.853987e-01        -0.2   1
## 7820         3.669720e-02 -6.175530e-02         0.2   0
```

```
## 7821        9.948916e-03 -6.730769e-02          -0.3   0
## 7822        3.481198e-02  9.962406e-02           0.2   0
## 7823       -4.480642e-02  1.337793e-02           0.0   0
## 7824        1.648816e-02  3.658537e-02          -0.3   0
## 7825        5.053473e-02  3.023649e-01           0.5   1
## 7826        1.577204e-02 -1.578947e-02           0.1   0
## 7827       -5.553312e-02 -1.454332e-01           0.1   1
## 7828        2.321609e-02  1.569125e-01           0.3   1
## 7829        3.485466e-02 -2.392473e-01          -0.1   1
## 7830        3.116248e-02 -1.722145e-02           0.2   1
## 7831        5.755897e-02  2.398778e-01           0.4   1
## 7832       -1.925975e-02  1.296296e-01           0.1   1
## 7833        2.577961e-02 -3.566351e-01          -0.1   0
## 7834        6.848653e-02  2.272977e-01           0.2   1
## 7835        9.468832e-02  3.050562e-01           0.2   1
## 7836        4.724194e-02  2.580645e-02          -0.1   0
## 7837       -2.474081e-02 -1.053421e-01           0.1   0
## 7838        1.113176e-02  8.907563e-02           0.3   1
## 7839        3.466579e-02  1.416459e-01           0.3   1
## 7840        5.295667e-02 -2.870333e-02           0.2   0
## 7841        3.201824e-02  1.391476e-01           0.2   0
## 7842        4.514197e-02  1.374411e-01           0.1   1
## 7843        2.047954e-03 -1.264368e-01           0.4   1
## 7844       -3.444655e-02  8.707282e-02          -0.3   1
## 7845        5.053247e-02  6.186392e-02          -0.1   1
## 7846       -5.887243e-02 -9.007269e-02          -0.2   1
## 7847        4.521884e-02  8.672700e-02           0.2   0
## 7848        2.672757e-02 -8.949813e-03           0.1   0
## 7849       -3.052217e-02 -2.375000e-01           0.0   0
## 7850       -2.395159e-02 -3.642987e-02           0.1   0
## 7851        4.658767e-02  5.667702e-02           0.1   1
## 7852        1.435268e-02 -1.194581e-01          -0.3   0
## 7853       -7.908801e-02 -2.012195e-01          -0.2   1
## 7854        2.080831e-03 -9.503051e-02           0.0   0
## 7855       -4.319727e-02  0.000000e+00           0.1   1
## 7856       -2.310009e-02  1.531621e-02           0.3   0
## 7857        1.371349e-04 -6.628653e-02          -0.1   1
## 7858       -8.290062e-02 -2.587772e-02          -0.1   1
## 7859       -3.927759e-02 -7.605205e-02           0.0   1
## 7860       -1.019181e-02 -9.727273e-02          -0.2   0
## 7861        2.877702e-02 -6.233553e-02          -0.1   1
## 7862       -8.505007e-03  1.889535e-02          -0.2   0
## 7863        9.315329e-03  2.414693e-01           0.0   1
## 7864        4.707951e-02  1.383888e-01           0.3   0
## 7865       -3.033693e-02 -3.455020e-02           0.0   1
## 7866        4.155210e-02  1.053741e-03           0.1   0
## 7867        5.403494e-02  3.075769e-01           0.5   1
## 7868        9.697231e-03  1.945095e-01           0.4   1
## 7869       -4.450282e-02  6.565657e-02           0.0   1
## 7870       -1.689602e-02  6.999494e-03           0.2   0
## 7871       -3.136058e-02 -8.142584e-02           0.1   0
## 7872       -8.181706e-02 -2.319762e-01          -0.1   0
## 7873        1.249168e-01  4.658269e-01           0.2   1
## 7874        7.606958e-04 -1.950562e-02          -0.3   0
## 7875       -2.800715e-02 -2.315271e-02           0.1   1
## 7876       -5.605683e-03  1.265585e-01          -0.1   1
## 7877        5.314078e-02  2.422663e-01           0.1   1
## 7878        2.620895e-02 -2.618441e-02          -0.3   1
```

```
## 7879            -3.084183e-03  6.818182e-02          0.1   1
## 7880             8.403883e-02  2.140541e-01          0.3   1
## 7881             5.100012e-02  1.077312e-01          0.1   1
## 7882             1.163702e-01  2.415132e-01          0.0   1
## 7883            -6.404172e-02 -2.734778e-01          0.1   1
## 7884             5.671121e-03  1.465409e-01          0.2   1
## 7885             5.797338e-02 -3.583916e-02          0.1   1
## 7886             5.365192e-02  2.581818e-01          0.4   1
## 7887             1.652924e-02  1.367539e-01          0.1   1
## 7888             6.238940e-02  2.781955e-01          0.2   1
## 7889            -7.575747e-02 -3.076389e-01          0.1   1
## 7890            -2.905859e-02  1.763468e-01          0.2   1
## 7891            -1.299528e-02  3.882529e-02         -0.1   1
## 7892             4.771349e-02  8.650943e-02          0.1   1
## 7893            -2.599955e-02 -1.371429e-01         -0.1   0
## 7894             2.378646e-02  4.869334e-02          0.0   1
## 7895            -3.125887e-02 -1.602426e-01          0.0   0
## 7896             6.314950e-02  9.035365e-02          0.2   1
## 7897             4.078377e-02  6.942852e-02         -0.1   0
## 7898            -4.736486e-02  2.144824e-02          0.0   0
## 7899             2.676191e-02  1.362836e-01          0.1   0
## 7900            -2.729807e-02  6.299249e-02          0.0   0
## 7901             4.123060e-02  4.237288e-02          0.0   0
## 7902             6.240171e-02  4.602941e-01          0.6   1
## 7903            -4.017701e-02 -2.204445e-01         -0.3   0
## 7904             3.504976e-02  1.588680e-01          0.1   1
## 7905            -1.441964e-03 -1.551337e-02          0.0   1
## 7906            -3.253988e-02  3.542996e-02          0.1   0
## 7907             6.588148e-03 -1.461353e-01         -0.1   0
## 7908             3.555124e-02  1.463271e-01          0.3   1
## 7909            -2.270389e-02 -1.822573e-01          0.0   0
## 7910             1.617744e-02  3.494041e-01          0.0   1
## 7911             9.389335e-03 -4.949495e-02          0.2   0
## 7912            -3.631880e-02 -1.460674e-01         -0.1   1
## 7913            -7.934649e-02 -2.022388e-01         -0.4   0
## 7914            -5.566604e-02 -8.333333e-02         -0.1   0
## 7915             8.149900e-03  5.765306e-02          0.2   0
## 7916            -3.108767e-02 -1.016746e-01         -0.1   0
## 7917            -2.730847e-02 -2.377907e-01          0.0   0
## 7918            -7.113777e-02 -1.700483e-01         -0.2   1
## 7919            -4.478239e-02 -4.986737e-02          0.1   1
## 7920             7.247973e-04 -1.176814e-01         -0.4   1
## 7921             1.040128e-02 -1.019771e-01          0.0   0
## 7922             1.466434e-02  1.272746e-01          0.0   1
## 7923            -1.039286e-01 -2.822691e-01         -0.3   0
## 7924            -1.312675e-01 -3.148148e-01         -0.6   0
## 7925             4.247771e-02  6.520653e-02          0.0   0
## 7926             1.483271e-02 -2.324112e-01         -0.2   1
## 7927             5.938542e-02  8.171431e-02          0.2   0
## 7928            -4.220095e-04  1.101613e-01          0.2   0
## 7929            -5.085551e-02 -9.152711e-02          0.2   0
## 7930             5.966896e-02  1.768707e-01          0.2   1
## 7931             7.386754e-02  4.182648e-01          0.6   1
## 7932             3.707445e-02  3.244838e-02          0.0   1
## 7933             4.178438e-02  2.543244e-01          0.3   1
## 7934             7.002402e-02  3.021974e-01          0.3   1
## 7935             1.413893e-02 -9.547124e-02         -0.1   1
## 7936             1.921029e-02  8.957490e-02         -0.1   0
```

```
## 7937            6.682353e-02  3.724138e-01              0.1   1
## 7938           -4.232749e-02  4.810866e-02             -0.2   1
## 7939            3.821470e-02  1.761522e-01              0.3   1
## 7940           -5.531815e-02 -2.903553e-01              0.0   0
## 7941           -1.050752e-01 -1.756479e-01             -0.2   0
## 7942           -1.880002e-02  7.981410e-03              0.1   1
## 7943           -8.245816e-02 -1.807946e-01             -0.5   0
## 7944           -3.820591e-02 -7.545311e-02             -0.2   1
## 7945            5.097688e-03 -1.813447e-01              0.1   0
## 7946           -3.454460e-02 -2.857167e-01             -0.6   0
## 7947           -4.766059e-02 -1.869270e-01             -0.1   1
## 7948           -1.190178e-02 -2.801620e-01             -0.1   0
## 7949            4.253219e-02  2.256563e-01              0.1   1
## 7950           -2.010890e-03  1.079785e-01             -0.1   0
## 7951            4.926067e-02  6.028907e-02              0.0   1
## 7952           -2.579930e-02  5.562169e-02             -0.1   1
## 7953           -1.028314e-01 -2.406743e-01             -0.4   0
## 7954           -1.170281e-01 -3.905123e-01             -0.5   0
## 7955            1.307504e-02  2.973189e-02              0.1   1
## 7956            2.000584e-02  1.951515e-01              0.1   1
## 7957           -1.188128e-02 -9.139785e-02             -0.2   0
## 7958            1.281341e-02  1.745318e-01              0.2   1
## 7959            8.233233e-02  1.345455e-01              0.2   1
## 7960           -1.136666e-02 -2.113981e-02             -0.1   1
## 7961            3.207913e-02 -1.027318e-01              0.1   0
## 7962            5.048028e-02  1.048510e-01             -0.1   0
## 7963            4.516988e-03 -1.894737e-01             -0.3   0
## 7964            2.648914e-02  6.428571e-02              0.1   1
## 7965           -1.672004e-02 -2.507496e-01             -0.2   1
## 7966           -5.570217e-02 -3.216945e-01             -0.4   0
## 7967           -5.764528e-03  3.559457e-02              0.3   0
## 7968            1.198917e-02  1.407085e-01              0.4   0
## 7969            1.607756e-02  1.426789e-01              0.2   0
## 7970            2.515082e-02 -8.981544e-02             -0.1   0
## 7971            2.142062e-03 -3.118240e-02             -0.1   0
## 7972            5.902657e-02  1.879187e-01              0.3   0
## 7973           -5.187464e-02  2.529526e-02              0.0   0
## 7974            1.077667e-02 -4.308712e-02              0.1   0
## 7975            8.822688e-02  3.359971e-01              0.2   1
## 7976           -4.230966e-03  1.693989e-02              0.1   0
## 7977           -4.391091e-02 -6.718806e-02             -0.1   0
## 7978           -4.512834e-02 -1.358008e-01              0.0   0
## 7979           -6.863085e-02 -2.400503e-01              0.0   0
## 7980            8.998988e-02  3.585770e-01              0.4   1
## 7981            8.615394e-02  1.882828e-01              0.3   1
## 7982           -1.751841e-02 -5.467290e-02             -0.2   1
## 7983            4.146835e-02  1.417790e-01              0.2   1
## 7984            7.689530e-02  3.493024e-01              0.3   1
## 7985           -5.963115e-02 -7.522929e-02             -0.1   1
## 7986            6.941761e-03 -2.393896e-01             -0.1   0
## 7987           -9.247685e-02 -2.985869e-01             -0.2   0
## 7988            4.278780e-02  3.683740e-01              0.4   1
## 7989           -2.859588e-02 -8.380952e-02             -0.2   0
## 7990           -8.298370e-03  5.377358e-02             -0.2   1
## 7991           -9.780870e-02 -2.723684e-01             -0.2   0
## 7992            1.891379e-02  1.650827e-01              0.3   1
## 7993            1.676108e-02  2.410814e-01              0.2   1
## 7994           -4.048579e-02 -1.955197e-01              0.0   0
```

```
## 7995      -2.116502e-02 -1.519608e-01      -0.1  0
## 7996       2.346461e-02 -1.019183e-01      -0.3  0
## 7997       7.230736e-02  4.925732e-02       0.4  1
## 7998       9.886073e-02  1.965418e-01       0.2  0
## 7999      -5.596567e-02 -3.493441e-01      -0.2  0
## 8000       1.048164e-01  3.685177e-01       0.4  1
## 8001      -7.251498e-02 -1.589147e-01       0.1  1
## 8002      -2.814098e-02 -2.091420e-01       0.0  1
## 8003       5.697655e-02  9.243996e-02       0.0  1
## 8004       1.221565e-02  4.029304e-02       0.2  0
## 8005      -5.738490e-02  1.600633e-02      -0.2  1
## 8006      -8.334763e-02 -4.228505e-01      -0.3  0
## 8007      -4.330756e-02 -1.954055e-01      -0.2  0
## 8008       4.463124e-02  1.356436e-01       0.0  1
## 8009       1.107371e-02  9.398023e-02       0.2  1
## 8010      -3.768235e-02 -2.067290e-01      -0.2  0
## 8011      -6.610565e-03 -1.629870e-01      -0.2  0
## 8012      -1.339557e-02 -1.183236e-01      -0.1  1
## 8013      -2.915585e-03 -1.003708e-01       0.0  0
## 8014       2.270751e-02  2.153110e-01      -0.1  0
## 8015       1.042268e-02 -7.426939e-02       0.0  1
## 8016      -3.554246e-02 -3.947368e-03      -0.1  0
## 8017       2.328883e-02 -6.056368e-02       0.0  0
## 8018       3.856526e-03  4.661654e-02       0.0  1
## 8019      -5.458513e-04 -7.270294e-02      -0.3  1
## 8020       1.168481e-02  8.958183e-02      -0.2  1
## 8021      -3.629586e-02 -1.515044e-01      -0.3  1
## 8022       9.404386e-02  1.472819e-01       0.3  1
## 8023      -6.589537e-02 -4.192673e-02       0.3  0
## 8024      -2.604962e-02 -1.852159e-01      -0.2  0
## 8025      -2.509148e-02 -7.614401e-02      -0.3  0
## 8026       3.332464e-02 -1.378788e-01      -0.1  1
## 8027      -2.217699e-02 -1.143750e-01       0.0  1
## 8028      -7.690735e-03 -1.742424e-01      -0.1  0
## 8029      -2.641244e-02 -1.835637e-01      -0.1  0
## 8030      -1.823754e-02 -1.974359e-02      -0.2  1
## 8031      -3.968094e-02  6.789756e-02       0.2  0
## 8032       3.441577e-02 -9.207459e-02      -0.4  1
## 8033      -1.796460e-02  1.460962e-02       0.1  1
## 8034      -5.763403e-02 -3.766234e-01      -0.4  0
## 8035      -2.002533e-02  2.083333e-01       0.3  1
## 8036       1.884564e-02 -6.002554e-02      -0.1  1
## 8037       4.499505e-02  3.276109e-01       0.1  1
## 8038       2.649126e-02  3.476549e-01       0.2  1
## 8039       3.245868e-02  3.128592e-01       0.3  1
## 8040      -5.326955e-03  7.116105e-02       0.2  0
## 8041      -2.507486e-02 -1.198516e-01       0.0  0
## 8042      -6.612937e-02 -6.514864e-02       0.1  0
## 8043       1.830437e-02 -7.794226e-02      -0.1  0
## 8044       7.475220e-02  4.176685e-02       0.0  1
## 8045       5.833558e-03  1.048358e-01       0.4  1
## 8046      -2.751735e-02  2.894491e-02       0.2  1
## 8047      -1.149750e-02 -4.712370e-02      -0.1  1
## 8048       1.071535e-02  1.779449e-01       0.0  1
## 8049       5.244185e-02  1.105804e-01       0.2  0
## 8050      -3.992399e-02 -2.974359e-01      -0.1  1
## 8051       4.198547e-02  3.012537e-01       0.2  0
## 8052      -2.966832e-03  2.675159e-02       0.0  0
```

```
## 8053            -3.370870e-02  6.189904e-02            0.2   0
## 8054             2.300241e-02  1.091191e-01            0.0   1
## 8055            -3.669875e-02 -2.189315e-01           -0.1   0
## 8056            -5.861942e-02 -3.181309e-01           -0.3   0
## 8057            -3.616446e-02 -1.995708e-01           -0.1   0
## 8058            -2.128631e-02 -8.911820e-03            0.2   1
## 8059             4.196479e-02 -3.380640e-02            0.0   1
## 8060            -1.667138e-02  8.750000e-02            0.0   1
## 8061            -4.786088e-03 -2.186291e-01           -0.1   0
## 8062             4.766303e-03 -9.052632e-02           -0.1   0
## 8063            -6.034916e-03  1.201258e-01           -0.1   1
## 8064             1.100359e-01  1.723210e-01            0.4   0
## 8065             2.659367e-02  1.039886e-01            0.1   1
## 8066             4.576882e-02 -1.465884e-01           -0.1   0
## 8067             6.315393e-03  2.179764e-01           -0.2   1
## 8068            -5.495096e-02 -2.363386e-01           -0.1   1
## 8069            -3.333312e-02 -9.620312e-02            0.0   1
## 8070            -4.217530e-02 -3.390313e-02            0.0   0
## 8071            -4.023689e-02 -2.156863e-01           -0.1   0
## 8072            -7.576120e-02 -2.262298e-01           -0.1   0
## 8073             1.405010e-02  2.482114e-01            0.0   0
## 8074             3.810230e-02  1.670878e-01            0.0   1
## 8075             2.047374e-02  1.061383e-01            0.1   1
## 8076             2.165878e-04 -1.105386e-01            0.1   0
## 8077             2.997080e-02  1.788618e-02            0.0   0
## 8078             1.718398e-03 -1.149425e-02            0.0   1
## 8079            -1.930419e-02  1.871658e-02            0.3   1
## 8080             5.363585e-03  1.666667e-01            0.3   0
## 8081            -1.061408e-01 -4.716981e-02            0.1   0
## 8082             3.153856e-02  2.692721e-01            0.1   0
## 8083             9.075546e-02  2.456604e-01            0.3   1
## 8084             5.235277e-02  4.118404e-02           -0.2   0
## 8085            -1.697920e-02 -3.206206e-01           -0.1   1
## 8086             1.392318e-02 -6.060125e-02           -0.1   0
## 8087            -5.064816e-02 -9.963692e-02            0.1   1
## 8088             2.353530e-02 -1.443783e-01           -0.2   1
## 8089             1.494239e-02 -7.201784e-02           -0.3   0
## 8090             1.286947e-02  3.254452e-03            0.1   1
## 8091             7.578968e-02  9.731438e-02           -0.2   0
## 8092            -6.017545e-04 -2.401073e-01           -0.2   0
## 8093            -1.648471e-02 -3.030303e-03            0.0   0
## 8094            -1.988817e-02 -9.209745e-02           -0.3   0
## 8095            -3.829466e-03 -9.453782e-02           -0.2   1
## 8096             1.101151e-01  4.327834e-01            0.2   1
## 8097            -5.444177e-02 -9.938432e-02            0.2   0
## 8098             4.883304e-03  2.691511e-01            0.2   1
## 8099             2.875158e-02  2.134982e-01            0.2   0
## 8100            -1.909681e-02 -5.525847e-02            0.0   0
## 8101            -1.244507e-02 -1.317472e-03            0.1   0
## 8102             2.561158e-02 -4.496815e-02           -0.2   1
## 8103            -1.387696e-02 -1.306750e-01           -0.2   0
## 8104             2.670490e-02 -1.915590e-01           -0.1   1
## 8105             1.975136e-03 -4.737279e-02           -0.4   1
## 8106             4.100662e-02  2.308523e-01            0.5   1
## 8107             3.060217e-02  2.325448e-01            0.0   1
## 8108            -4.637102e-02 -1.619316e-01           -0.1   1
## 8109            -8.634079e-02 -4.126984e-02            0.3   0
## 8110             4.340288e-02  1.490985e-02            0.1   1
```

```
## 8111          -4.115021e-02 -3.611111e-01              -0.2    0
## 8112          -4.828509e-02  2.773786e-02               0.0    0
## 8113           2.698549e-02  1.847102e-02               0.0    0
## 8114           7.983211e-03  9.481241e-04               0.1    1
## 8115          -2.357027e-02 -2.917732e-02               0.1    0
## 8116           8.008851e-02  3.557402e-01               0.1    1
## 8117          -7.892953e-02 -1.816672e-01              -0.2    1
## 8118           1.304747e-02 -9.195126e-02               0.1    1
## 8119           2.671840e-02  8.162268e-02               0.0    1
## 8120          -6.035180e-02 -8.557660e-02              -0.1    1
## 8121           2.484238e-02 -1.618967e-02               0.0    0
## 8122           6.731352e-02  4.128866e-01               0.5    1
## 8123          -1.578848e-02  2.055944e-01               0.2    1
## 8124          -1.942228e-02  1.952214e-02               0.2    1
## 8125          -9.040159e-02 -1.704485e-01              -0.1    0
## 8126           6.521018e-02  2.913807e-01               0.0    1
## 8127           2.089831e-03 -3.850267e-02              -0.1    0
## 8128           1.867267e-02 -7.382134e-02              -0.1    1
## 8129           1.974874e-02  1.226546e-01               0.0    1
## 8130          -5.511255e-02 -3.450549e-01              -0.2    0
## 8131           8.693153e-03 -1.008550e-01               0.1    0
## 8132          -6.037278e-02 -3.715973e-01              -0.1    0
## 8133           9.166574e-03  9.835863e-02               0.0    1
## 8134          -3.084842e-02 -5.978893e-02               0.1    1
## 8135          -2.413810e-02 -1.571278e-01              -0.1    1
## 8136           2.103749e-02 -1.709726e-03               0.0    0
## 8137           1.940163e-02  7.047444e-02              -0.2    1
## 8138          -1.162633e-02  5.869342e-02              -0.4    1
## 8139           1.079932e-02 -6.825996e-02               0.0    0
## 8140          -8.792723e-03 -5.546512e-02               0.1    1
## 8141           1.465776e-02 -8.340016e-03               0.2    1
## 8142          -1.107600e-02 -2.974684e-03               0.0    1
## 8143          -7.270354e-02 -2.726653e-02              -0.2    1
## 8144           4.159647e-02 -5.406386e-02              -0.5    1
## 8145           4.025374e-02  6.615516e-02               0.0    1
## 8146          -1.057714e-02  2.857143e-02               0.3    1
## 8147           1.004929e-02  2.255045e-01               0.4    1
## 8148          -3.648682e-02 -7.654369e-02              -0.2    0
## 8149          -7.451065e-03 -9.772617e-02               0.1    0
## 8150          -1.045904e-02  1.877027e-01               0.0    0
## 8151           8.777219e-02  3.650013e-01               0.2    1
## 8152          -5.444678e-02 -9.523810e-02              -0.2    0
## 8153           2.065242e-02  5.848438e-02               0.2    1
## 8154          -5.727627e-02 -9.421380e-02               0.0    1
## 8155           4.059166e-02  3.498446e-01               0.1    1
## 8156           3.566382e-02 -8.636364e-02               0.1    0
## 8157          -9.131304e-02 -1.837140e-01              -0.1    0
## 8158          -1.040569e-01 -2.810865e-01              -0.2    0
## 8159          -3.320679e-02 -2.585894e-01              -0.4    0
## 8160           2.584614e-03 -4.178918e-02              -0.3    1
## 8161           6.862559e-02  3.696540e-02               0.2    1
## 8162           2.430705e-02  1.045927e-01               0.1    1
## 8163          -2.637824e-03  1.174572e-01               0.0    1
## 8164          -3.627200e-02 -1.507431e-01              -0.1    0
## 8165          -7.595480e-02 -3.304987e-01              -0.1    0
## 8166          -1.907151e-02 -3.172730e-01              -0.3    0
## 8167           4.328513e-02  5.921136e-02               0.0    1
## 8168          -4.286668e-02 -1.581172e-01               0.0    0
```

```
## 8169          3.179711e-02 -5.173576e-02          0.1   0
## 8170          5.063184e-02  2.295679e-01          0.2   1
## 8171         -3.442150e-02 -2.324655e-01          0.0   0
## 8172         -1.282623e-02  1.786579e-03         -0.1   1
## 8173         -2.379105e-02  2.178983e-01          0.4   1
## 8174         -3.136390e-02 -2.124542e-01         -0.1   0
## 8175          2.112219e-02 -6.576572e-02         -0.2   0
## 8176         -3.021894e-02 -5.446405e-02          0.2   0
## 8177         -2.790506e-02 -1.950260e-01         -0.4   0
## 8178          3.327255e-02  1.090702e-01          0.0   0
## 8179         -2.763570e-02  4.269663e-02          0.2   1
## 8180          2.358332e-02  9.589104e-02          0.2   1
## 8181         -8.206152e-03  1.492537e-01          0.2   1
## 8182          3.613480e-02  1.344502e-01          0.0   0
## 8183         -4.251997e-02 -7.070475e-02          0.0   0
## 8184          7.568672e-03  8.828250e-02          0.3   1
## 8185         -2.748587e-02 -8.536944e-02          0.0   0
## 8186          7.123389e-02  1.143420e-01         -0.1   1
## 8187          6.829102e-02  4.807692e-03          0.0   1
## 8188         -2.572537e-02 -6.896853e-02         -0.2   0
## 8189          2.460420e-02  1.960812e-01          0.3   1
## 8190         -9.420656e-02 -3.357470e-01         -0.2   0
## 8191          7.639543e-02  1.751457e-01          0.0   0
## 8192          2.473745e-02  5.401413e-02          0.1   0
## 8193          4.411572e-02 -3.332194e-03          0.0   0
## 8194         -1.955933e-02  2.551669e-01          0.3   0
## 8195         -8.279975e-03 -1.256551e-01          0.1   0
## 8196         -1.008123e-02 -1.998122e-01         -0.2   0
## 8197          1.184736e-01  4.129592e-01          0.2   1
## 8198          2.782531e-02 -1.686332e-01         -0.2   0
## 8199          3.766409e-02  5.718141e-02          0.2   0
## 8200          8.094111e-02  3.479365e-01          0.2   1
## 8201         -3.891081e-03 -4.573935e-02         -0.1   1
## 8202          9.522028e-02  2.576608e-01          0.2   0
## 8203          2.452018e-02  3.963415e-02          0.1   1
## 8204         -7.447760e-02 -4.622222e-01         -0.2   0
## 8205          1.246165e-03 -5.604720e-02         -0.1   0
## 8206          1.297686e-02 -6.443926e-02          0.0   0
## 8207          3.773422e-02  1.416667e-01          0.3   1
## 8208          1.442706e-02  6.473214e-02          0.0   1
## 8209         -2.590682e-02  1.888338e-01          0.0   0
## 8210          8.115341e-03 -1.793249e-01          0.0   1
## 8211          8.385293e-02  1.723354e-01          0.2   1
## 8212         -7.710798e-02 -2.504058e-01         -0.3   0
## 8213         -1.516760e-02  3.064551e-02         -0.3   0
## 8214         -4.555128e-02  7.432432e-02          0.5   0
## 8215         -1.929620e-04  2.484053e-01          0.1   1
## 8216         -1.323613e-02 -9.523810e-03         -0.2   1
## 8217          1.635311e-02  2.488066e-01          0.1   1
## 8218          1.830571e-02  2.025420e-01          0.2   1
## 8219         -3.556057e-02  1.397297e-01          0.2   0
## 8220          2.319510e-02  2.455815e-01          0.4   1
## 8221          1.107645e-01  4.820748e-01          0.2   1
## 8222         -3.871229e-03 -7.797271e-03         -0.1   1
## 8223         -5.595343e-02 -1.277120e-01         -0.4   0
## 8224          6.461478e-02  1.678295e-01          0.0   0
## 8225         -4.041553e-02 -2.060192e-01         -0.2   1
## 8226          3.508294e-02  2.593864e-01          0.2   1
```

```
## 8227         6.920314e-03  1.749142e-01          0.4   0
## 8228        -3.018569e-02 -2.289816e-01         -0.2   1
## 8229        -4.049215e-03 -3.801306e-02          0.0   0
## 8230         2.234933e-02  4.001938e-03          0.1   0
## 8231        -2.983370e-02 -8.974870e-03         -0.2   0
## 8232         1.469917e-02  3.734409e-01          0.3   0
## 8233         2.711883e-03  2.149708e-01          0.0   1
## 8234         4.087836e-02  3.301975e-01          0.1   1
## 8235        -1.949771e-02  9.086199e-02         -0.1   0
## 8236         2.974239e-02  2.401339e-01          0.0   1
## 8237        -2.859050e-03  1.270531e-01          0.2   1
## 8238        -6.501660e-03  2.596554e-01         -0.1   1
## 8239         8.365622e-03  1.008166e-01          0.0   1
## 8240        -5.223062e-02 -2.131362e-01         -0.1   0
## 8241         5.285390e-02  1.282051e-01          0.2   0
## 8242         3.279423e-02  9.845073e-02          0.2   1
## 8243        -1.101476e-02  4.103473e-02          0.3   0
## 8244         1.540334e-02 -1.932004e-02          0.0   0
## 8245        -6.048012e-02 -1.358974e-01         -0.2   1
## 8246         7.765920e-03  2.483019e-01          0.2   0
## 8247        -3.198711e-02  7.648649e-02          0.1   0
## 8248        -2.770360e-02  3.821378e-03          0.3   1
## 8249         5.625569e-02  4.473339e-02          0.1   1
## 8250         3.391601e-02  3.511862e-01          0.3   1
## 8251         8.673333e-02  1.522436e-01          0.1   1
## 8252        -1.974187e-02 -1.297380e-01         -0.1   0
## 8253         4.862648e-02  2.061743e-02          0.1   1
## 8254        -1.595084e-02  2.733826e-02          0.1   0
## 8255         4.024662e-02  1.555533e-01          0.1   0
## 8256         2.934127e-02 -1.740741e-01         -0.2   0
## 8257         1.601900e-02 -4.720995e-02         -0.3   1
## 8258         5.700371e-03 -1.147292e-01         -0.3   0
## 8259         3.581482e-02  1.321093e-01          0.0   0
## 8260        -3.177786e-02 -3.525641e-02         -0.1   0
## 8261         1.119186e-02  9.216590e-02         -0.3   1
## 8262         7.408303e-02  3.872435e-01          0.2   1
## 8263        -2.783242e-02 -2.432609e-01         -0.2   0
## 8264        -1.432905e-02  2.553504e-02          0.4   1
## 8265         2.365917e-02  7.926449e-02          0.2   1
## 8266        -4.489084e-02 -2.530554e-01          0.0   1
## 8267         7.563736e-03  8.415842e-02         -0.2   1
## 8268        -1.287503e-02 -1.307692e-01         -0.3   0
## 8269         2.397252e-02  1.974109e-01          0.3   0
## 8270        -4.860976e-02 -2.164894e-01         -0.2   0
## 8271        -4.897462e-03 -1.020568e-01          0.0   1
## 8272         9.829329e-02  2.338067e-01          0.0   1
## 8273        -2.860241e-02 -1.104039e-01          0.2   1
## 8274        -8.512588e-04  9.191176e-03          0.0   0
## 8275         4.082912e-02  1.134666e-01         -0.2   1
## 8276        -2.281912e-02 -2.035714e-01         -0.1   1
## 8277        -3.629783e-02 -2.878836e-02          0.0   1
## 8278         5.399315e-02  2.833669e-01          0.1   1
## 8279        -4.782437e-02 -2.411692e-01         -0.3   0
## 8280        -1.607056e-02  1.017812e-01          0.2   1
## 8281        -7.073722e-03  3.866155e-02          0.0   1
## 8282        -4.574550e-02 -5.333139e-02          0.0   0
## 8283        -3.030302e-02 -1.458333e-02          0.2   0
## 8284         2.977636e-02 -3.789869e-02          0.0   0
```

```
## 8285            1.526934e-02  4.855166e-02            0.0    0
## 8286           -3.915257e-02 -3.290948e-01            0.0    1
## 8287            5.380894e-02  2.587060e-01            0.4    1
## 8288            9.996333e-02  1.632202e-01            0.0    1
## 8289           -6.793930e-04  4.583755e-02           -0.1    1
## 8290           -8.698723e-02 -2.059636e-01            0.1    0
## 8291            5.743618e-02  2.838575e-01            0.4    1
## 8292           -7.022488e-02 -3.976554e-01           -0.4    0
## 8293            5.013957e-02  3.726708e-02            0.0    1
## 8294            2.092856e-02  2.470574e-01            0.4    1
## 8295           -3.841518e-03  5.044700e-02            0.3    0
## 8296           -3.617778e-02 -8.179012e-02           -0.1    1
## 8297           -2.629994e-02 -1.911792e-01            0.0    0
## 8298            1.043611e-01  3.043332e-01            0.5    1
## 8299            3.395733e-02  7.666214e-02            0.4    1
## 8300            3.740414e-02  2.583072e-01            0.4    1
## 8301           -1.567336e-02 -2.135830e-01           -0.3    0
## 8302            7.381748e-03  1.287747e-01            0.1    1
## 8303           -7.163536e-02 -4.918301e-01           -0.7    0
## 8304           -8.201281e-02 -4.608214e-01           -0.4    0
## 8305            3.882528e-02  9.448121e-02            0.0    0
## 8306            5.390925e-02  1.123249e-01            0.0    1
## 8307           -4.508594e-02 -4.285714e-02            0.0    1
## 8308            1.961091e-02 -7.874564e-02            0.0    1
## 8309            1.150190e-01  2.367781e-01            0.4    0
## 8310            1.134351e-01  3.504708e-01            0.4    1
## 8311           -9.656571e-03 -1.363636e-01            0.0    0
## 8312           -5.184796e-02 -1.445869e-01           -0.1    0
## 8313            2.698735e-02 -2.111504e-01            0.0    0
## 8314           -7.099128e-02 -2.684366e-01           -0.2    0
## 8315            2.208891e-02  9.338909e-02            0.3    0
## 8316           -5.070177e-02 -1.673088e-01           -0.1    1
## 8317           -8.959592e-02 -5.073529e-01           -0.4    0
## 8318            7.560165e-02  2.962732e-03            0.1    0
## 8319           -4.445073e-02  4.511278e-02            0.1    0
## 8320            1.809762e-02 -2.349710e-02            0.2    1
## 8321           -5.158584e-02 -1.422482e-01           -0.1    1
## 8322            1.305338e-02  3.241512e-01            0.2    1
## 8323           -2.285074e-02 -2.238095e-01           -0.3    0
## 8324           -3.248295e-02 -2.622029e-02            0.0    1
## 8325           -3.737296e-02 -2.715909e-01           -0.3    0
## 8326           -3.826777e-03 -4.580420e-02            0.0    0
## 8327           -3.322660e-02  4.894180e-02           -0.2    1
## 8328           -5.162577e-02 -3.406755e-01           -0.3    0
## 8329           -2.389769e-03  2.857143e-02            0.2    0
## 8330           -4.666854e-02 -1.237240e-01           -0.3    1
## 8331           -1.885341e-02 -1.516156e-01           -0.1    0
## 8332           -5.223711e-02 -1.151170e-01            0.0    0
## 8333           -1.312241e-02 -1.130886e-01           -0.2    0
## 8334           -2.246588e-02  6.425743e-02            0.0    1
## 8335           -2.064195e-02 -7.179001e-02            0.1    0
## 8336           -4.912158e-02 -1.179402e-01           -0.3    0
## 8337            3.713765e-02 -4.497284e-02            0.1    1
## 8338            3.068646e-02  1.246439e-01            0.1    1
## 8339            5.391368e-03  6.240696e-02           -0.1    0
## 8340            2.334165e-02 -6.677554e-02            0.1    1
## 8341           -7.526509e-02 -4.601884e-01           -0.5    0
## 8342           -7.788207e-03 -2.215059e-01            0.0    0
```

```
## 8343          -3.420862e-02 -1.380213e-01       0.1   1
## 8344           4.660682e-02  2.933824e-01       0.2   1
## 8345          -7.803160e-02 -2.152148e-01      -0.3   0
## 8346          -2.885415e-02 -8.980213e-02       0.0   0
## 8347           7.236665e-02  2.854376e-01       0.3   0
## 8348          -3.871791e-02 -1.423556e-01      -0.2   0
## 8349          -6.115992e-02  6.256921e-02      -0.1   1
## 8350          -5.479475e-02 -1.932440e-01      -0.3   0
## 8351           3.957406e-02  5.184332e-02       0.1   0
## 8352          -3.917561e-02 -2.543179e-01      -0.3   1
## 8353          -1.287670e-01 -4.580128e-01      -0.2   0
## 8354          -4.468631e-02 -4.000000e-01      -0.1   0
## 8355           4.532625e-02  9.351852e-02      -0.3   1
## 8356           1.863366e-02 -5.471152e-02       0.1   1
## 8357          -4.371682e-03 -5.236544e-02      -0.1   1
## 8358           9.422337e-02  1.333333e-01       0.2   1
## 8359           7.174710e-03  5.031061e-02      -0.2   0
## 8360          -5.804672e-02 -3.887244e-01      -0.4   0
## 8361          -6.752552e-02 -2.706767e-01      -0.3   0
## 8362           4.758272e-02  5.762712e-02       0.2   1
## 8363           9.570185e-03  3.702180e-02       0.3   1
## 8364          -5.183693e-02 -1.331397e-01      -0.2   0
## 8365          -3.783367e-02  9.610484e-03       0.0   1
## 8366          -1.688774e-02 -2.709243e-02       0.1   0
## 8367           7.029638e-03 -4.245516e-02      -0.1   1
## 8368          -5.079582e-02 -4.380556e-01      -0.5   0
## 8369           5.179192e-02  2.144080e-01       0.3   1
## 8370          -3.441039e-02 -2.179432e-01      -0.2   0
## 8371          -6.354279e-02 -1.140136e-01       0.1   1
## 8372          -5.665148e-03 -1.073923e-02      -0.1   0
## 8373           3.659937e-03  2.338275e-01       0.2   1
## 8374          -2.303039e-02 -4.419192e-02       0.0   1
## 8375           5.899375e-02  8.859010e-02       0.2   1
## 8376           1.085437e-01  4.617929e-01       0.4   1
## 8377          -5.404796e-02 -1.274294e-01       0.2   0
## 8378           3.764259e-02 -3.943706e-03       0.1   0
## 8379           2.781630e-02  2.899878e-01       0.0   1
## 8380           2.301562e-02  9.448998e-02       0.0   0
## 8381           9.086411e-02  8.070807e-02       0.0   0
## 8382           5.120928e-02  3.999131e-01       0.5   1
## 8383           7.296480e-02  2.693935e-01       0.2   1
## 8384           3.909145e-02  4.054054e-02       0.0   1
## 8385          -8.417311e-02 -3.866109e-01      -0.2   0
## 8386          -3.494324e-02 -1.230734e-01      -0.1   0
## 8387           4.320945e-03  1.379075e-01       0.1   1
## 8388           2.647599e-02  2.048737e-01       0.1   1
## 8389          -1.830784e-02 -1.044421e-01      -0.1   0
## 8390           1.057397e-01  3.714286e-01       0.4   1
## 8391           4.249315e-02  3.366575e-01       0.2   1
## 8392           4.928821e-02  3.496377e-02       0.0   1
## 8393          -2.399132e-02  6.580713e-02       0.1   0
## 8394          -2.877866e-02 -1.911549e-01      -0.1   1
## 8395           1.823765e-02 -5.759706e-02      -0.2   0
## 8396          -2.632115e-02 -2.457167e-02       0.2   1
## 8397           3.683052e-02  2.000844e-01       0.1   0
## 8398          -3.991323e-02 -1.649593e-01      -0.2   1
## 8399          -3.401634e-02  1.060445e-03       0.2   0
## 8400           4.271827e-02  2.251984e-01       0.2   1
```

```
## 8401         -1.199751e-02 -4.822955e-02          -0.1   0
## 8402         -2.034538e-02 -1.567206e-01          -0.2   1
## 8403         -1.890158e-02  0.000000e+00           0.1   1
## 8404          6.472625e-02  5.293421e-02          -0.2   1
## 8405         -2.403913e-02 -5.147484e-02           0.1   1
## 8406          3.232277e-02  1.021043e-01           0.0   0
## 8407          4.118456e-02  1.709402e-03           0.1   1
## 8408         -6.574456e-03  1.287089e-01           0.3   1
## 8409         -2.483799e-02 -1.893939e-02          -0.1   0
## 8410          2.722682e-02  4.363636e-02           0.1   1
## 8411          4.523663e-02  2.508058e-01           0.3   1
## 8412          5.798960e-03 -1.291101e-01          -0.2   0
## 8413         -3.613674e-03 -7.360743e-02          -0.1   0
## 8414         -2.307355e-02 -2.163462e-01          -0.4   0
## 8415         -5.352673e-02 -2.217004e-01           0.1   0
## 8416          6.270315e-02  1.177205e-01           0.0   1
## 8417         -3.008577e-02 -1.819428e-01          -0.3   1
## 8418         -2.265322e-02 -3.511671e-03          -0.1   1
## 8419          4.305098e-03 -1.370031e-01          -0.1   0
## 8420          7.312547e-02  3.004459e-01           0.2   0
## 8421          2.549674e-02  5.988892e-02           0.1   1
## 8422          4.650439e-02  3.075660e-01           0.2   1
## 8423          3.278241e-02 -9.033613e-02          -0.1   0
## 8424         -1.832624e-02 -2.023955e-01          -0.2   0
## 8425         -5.553679e-02 -5.672515e-02          -0.3   0
## 8426          4.075179e-02  1.300300e-01           0.0   0
## 8427         -6.666216e-02 -1.674347e-01          -0.2   0
## 8428          7.448210e-02  2.368697e-01           0.4   1
## 8429          5.750928e-02  2.533679e-01           0.2   1
## 8430          1.607613e-02 -6.633222e-02          -0.2   0
## 8431          1.129942e-03  7.575758e-03           0.1   1
## 8432          5.281906e-02  1.884146e-01           0.2   1
## 8433         -2.186222e-02 -1.751701e-01          -0.3   0
## 8434          8.234003e-02  3.242009e-01           0.3   1
## 8435          7.844556e-03 -3.530216e-02           0.0   1
## 8436         -1.526364e-02  5.618109e-02           0.2   0
## 8437         -7.593897e-02 -2.878352e-03          -0.2   1
## 8438          4.645673e-03  2.850803e-02           0.3   0
## 8439          1.440618e-02 -1.435407e-03           0.0   0
## 8440         -3.083398e-02 -3.839725e-01          -0.3   1
## 8441         -4.534372e-03 -1.371206e-01          -0.1   1
## 8442          5.978244e-02  2.985441e-01           0.3   0
## 8443          5.175757e-02 -1.689799e-02           0.1   0
## 8444          5.059992e-02  3.180298e-01           0.2   1
## 8445          4.307604e-02  1.148776e-01          -0.1   1
## 8446          3.573978e-02  1.308985e-01           0.0   0
## 8447         -7.718565e-03 -1.936200e-01          -0.2   0
## 8448         -1.508260e-02  3.016679e-02           0.2   0
## 8449         -2.388596e-02 -1.467452e-01          -0.1   0
## 8450         -2.810853e-02 -2.355769e-01          -0.3   0
## 8451         -2.521652e-02 -8.689320e-02          -0.3   0
## 8452         -1.932171e-02 -9.463277e-02          -0.2   1
## 8453         -9.202277e-03  1.014676e-01           0.0   1
## 8454          8.931985e-02  1.678832e-01           0.1   0
## 8455         -3.233206e-02 -1.250000e-01           0.1   0
## 8456         -2.448207e-02 -1.786284e-01          -0.3   0
## 8457         -1.481491e-02  1.791958e-02           0.0   0
## 8458         -7.895487e-02 -3.273002e-01          -0.2   0
```

```
## 8459          1.983363e-02 -2.946650e-03          -0.1   0
## 8460          5.616063e-02 -5.479641e-02           0.0   0
## 8461         -3.246282e-04  3.457596e-02           0.1   1
## 8462          9.706568e-02  5.407551e-01           0.6   1
## 8463          2.930272e-02  8.657095e-03          -0.1   1
## 8464          3.917792e-02  9.713383e-02           0.0   1
## 8465          1.259964e-02 -3.046812e-02           0.2   1
## 8466         -4.240221e-02 -8.342147e-02           0.3   0
## 8467          1.996302e-02  1.598049e-01           0.1   0
## 8468          6.974288e-02  1.512957e-01           0.1   0
## 8469         -1.775248e-02 -7.415829e-02           0.1   0
## 8470          7.737300e-03  1.530228e-01           0.3   0
## 8471         -2.778477e-02 -2.182797e-01           0.0   0
## 8472         -2.553028e-02 -4.000000e-02          -0.3   0
## 8473         -5.650675e-02 -2.950842e-01          -0.2   0
## 8474         -6.258063e-02 -1.834058e-01          -0.3   0
## 8475         -4.434816e-02 -1.230279e-01           0.0   0
## 8476         -3.637883e-02  8.069224e-02           0.0   1
## 8477         -4.165007e-03 -1.184707e-01           0.0   0
## 8478         -2.997906e-02 -6.812458e-02          -0.2   0
## 8479         -1.635157e-02  7.504456e-02           0.2   1
## 8480          4.242052e-02  3.003663e-02           0.2   1
## 8481         -1.717609e-03  2.032258e-01           0.1   0
## 8482          1.522034e-02  2.241048e-02           0.0   1
## 8483         -2.342936e-02 -5.398773e-02          -0.1   0
## 8484          2.230091e-02 -6.296152e-02          -0.4   1
## 8485          1.105671e-02 -1.928614e-01          -0.3   1
## 8486          1.897470e-02 -1.820915e-02          -0.1   1
## 8487          2.385483e-02  2.289348e-01           0.3   1
## 8488          3.469669e-02  1.515152e-01           0.2   0
## 8489         -3.050793e-02 -5.534759e-02          -0.4   0
## 8490          3.860916e-02  1.631289e-01           0.1   1
## 8491          6.096410e-02  1.646259e-01           0.2   1
## 8492         -1.013498e-01 -1.130028e-01          -0.1   0
## 8493         -3.313556e-02 -2.305518e-01          -0.1   0
## 8494          6.148744e-03 -1.122654e-01           0.0   0
## 8495          1.791146e-02 -1.883318e-01          -0.4   0
## 8496         -4.413315e-02 -1.350857e-01           0.0   0
## 8497         -5.993700e-02 -6.405969e-02          -0.1   1
## 8498          2.149278e-02 -1.118447e-02          -0.2   0
## 8499         -3.984468e-02 -2.598310e-01          -0.3   0
## 8500          2.148523e-02 -3.852117e-02          -0.3   0
## 8501          1.704722e-02 -4.821429e-02           0.0   1
## 8502          2.748073e-02 -1.619505e-01          -0.5   0
## 8503         -2.580969e-03  2.626263e-02          -0.2   1
## 8504          3.593877e-02  3.472576e-01           0.1   1
## 8505         -3.838535e-02 -3.066214e-01          -0.2   0
## 8506          2.290652e-02 -1.575053e-01          -0.3   1
## 8507         -6.796296e-02 -4.109731e-01          -0.3   0
## 8508          4.661135e-02  9.295102e-02           0.0   1
## 8509         -1.046660e-02 -9.742647e-02          -0.4   0
## 8510          1.536043e-03  2.930654e-03          -0.2   1
## 8511         -5.956791e-02 -3.145540e-01          -0.4   0
## 8512         -3.262469e-02 -1.923805e-01          -0.3   0
## 8513         -7.416126e-03 -4.144711e-02           0.3   1
## 8514         -5.097979e-02  3.729577e-02           0.0   0
## 8515         -1.396197e-02  6.524428e-02          -0.1   0
## 8516          1.453935e-02  8.337481e-03           0.0   1
```

```
## 8517           2.105891e-02  1.765031e-01            0.2    1
## 8518          -2.703578e-02 -1.033835e-02            0.2    0
## 8519          -6.116548e-02 -2.039312e-01           -0.1    0
## 8520           2.180103e-02  1.804092e-01            0.3    0
## 8521          -5.515291e-04  7.233333e-02            0.0    0
## 8522           2.815567e-02  9.245395e-02            0.2    0
## 8523           5.233569e-03  1.119221e-01            0.3    1
## 8524          -1.903165e-02 -3.191686e-02            0.2    1
## 8525          -5.429357e-02  5.857890e-02            0.2    1
## 8526           7.842823e-02  5.935128e-02           -0.1    1
## 8527          -2.276456e-02 -3.145357e-01           -0.1    0
## 8528           4.995809e-02  3.268486e-01            0.5    1
## 8529          -2.554007e-02 -2.185714e-01           -0.3    0
## 8530           3.020201e-02  2.206593e-01            0.3    0
## 8531          -3.761459e-02 -1.841744e-01            0.0    0
## 8532           9.077940e-02  7.040968e-02           -0.2    1
## 8533           1.145416e-02  1.366686e-01            0.1    1
## 8534           1.693645e-02  1.098637e-01            0.2    1
## 8535           9.212108e-02 -9.019886e-02           -0.2    0
## 8536           1.426930e-02  1.647896e-01            0.2    0
## 8537           4.219777e-03  8.847118e-02            0.5    1
## 8538           4.204253e-03  1.193416e-01           -0.1    0
## 8539           1.073954e-02 -9.968525e-02           -0.1    0
## 8540          -3.089366e-02 -1.537247e-01           -0.2    0
## 8541          -5.887110e-02 -6.148499e-02            0.2    1
## 8542          -9.436658e-03 -2.322442e-01           -0.5    0
## 8543           7.647856e-02  2.553195e-01           -0.1    1
## 8544           2.569734e-02  3.627883e-02            0.0    1
## 8545           7.720240e-02  1.882883e-01            0.0    1
## 8546           8.281855e-02  5.283984e-01            0.6    1
## 8547           4.607060e-02 -1.149425e-01           -0.1    1
## 8548          -1.337344e-02  2.737578e-02           -0.1    1
## 8549          -3.064442e-02 -7.471549e-02           -0.4    1
## 8550          -3.367032e-02  6.097561e-03           -0.1    1
## 8551          -2.809589e-02 -6.488240e-03           -0.3    1
## 8552          -1.024466e-02 -2.327103e-02            0.0    1
## 8553           2.950674e-02 -1.312556e-01           -0.1    0
## 8554           1.803700e-02  5.515674e-02            0.1    0
## 8555           8.171201e-02  2.138177e-01            0.0    1
## 8556          -5.978892e-02 -1.539075e-01            0.0    0
## 8557           6.434824e-02  1.885840e-01            0.4    1
## 8558           1.277344e-02  2.239046e-01            0.0    1
## 8559          -1.406515e-02  2.463606e-02           -0.1    0
## 8560          -9.491224e-04  7.215007e-03            0.2    1
## 8561           2.939440e-02  3.543860e-01            0.2    1
## 8562           8.108226e-03  5.775453e-02            0.2    0
## 8563           3.551059e-03  3.130252e-01            0.3    1
## 8564          -2.688695e-02  8.527132e-02            0.3    1
## 8565           2.088018e-02  2.512821e-01            0.6    1
## 8566           4.781775e-02  8.742292e-02           -0.1    1
## 8567          -2.977418e-02 -1.466667e-01           -0.2    1
## 8568           1.472979e-03 -3.334475e-02           -0.5    1
## 8569           6.885791e-03  4.696032e-02           -0.1    0
## 8570           9.209460e-04  4.242424e-02            0.2    0
## 8571           3.818999e-02 -9.593604e-02            0.0    0
## 8572          -2.756277e-02  1.253735e-01            0.5    1
## 8573          -2.486367e-02  1.384169e-01            0.2    0
## 8574           7.846256e-02  2.999088e-01            0.1    1
```

```
## 8575          2.577327e-03  2.159421e-01            0.0   1
## 8576          4.587084e-02  3.231481e-01            0.1   1
## 8577          5.002692e-02  1.192604e-01            0.0   1
## 8578         -8.529401e-04 -3.897546e-02            0.4   0
## 8579          3.187074e-03  1.620029e-02           -0.1   0
## 8580         -3.980772e-02 -4.802260e-02            0.1   0
## 8581          1.138831e-01  2.589246e-01            0.3   1
## 8582         -1.848524e-02 -3.259214e-02            0.0   0
## 8583         -2.698386e-02 -2.891053e-01           -0.3   0
## 8584          2.193997e-02  2.908277e-01            0.0   0
## 8585         -1.557328e-02 -2.294426e-01            0.0   1
## 8586         -8.501771e-02 -3.902369e-01           -0.7   0
## 8587         -5.615820e-02 -1.695269e-01           -0.2   0
## 8588          3.660881e-02 -2.312459e-02           -0.1   1
## 8589         -2.198580e-02  2.308729e-02           -0.1   1
## 8590          3.534475e-02 -4.055944e-02            0.1   0
## 8591          2.523391e-03  1.030569e-02            0.0   1
## 8592          6.666766e-02  2.223684e-01            0.4   1
## 8593          2.259996e-02  1.566667e-01            0.2   0
## 8594          6.620914e-02  1.654191e-01            0.1   1
## 8595          3.734691e-02  2.507994e-01            0.7   1
## 8596         -2.740388e-02 -1.506502e-01           -0.2   0
## 8597         -2.183238e-02 -2.650364e-01           -0.3   1
## 8598          4.434806e-04  3.541028e-02            0.2   1
## 8599         -2.734978e-02  6.068536e-02            0.6   1
## 8600          2.454365e-02  2.253456e-01            0.1   0
## 8601          3.570263e-02  1.631206e-01            0.0   0
## 8602         -4.576434e-03  8.500000e-02            0.1   0
## 8603         -1.096701e-01 -2.314217e-01           -0.1   0
## 8604          5.003415e-02  2.528503e-01            0.0   1
## 8605         -2.128543e-02 -2.917312e-01           -0.5   0
## 8606         -2.442610e-02 -1.960872e-01            0.0   1
## 8607          8.229588e-03  1.109590e-01            0.0   0
## 8608         -1.065914e-01 -4.016200e-01           -0.5   0
## 8609          8.561251e-02  1.497693e-01            0.0   1
## 8610         -4.864436e-02 -3.283003e-01           -0.2   0
## 8611          6.472427e-02  1.531981e-01            0.2   0
## 8612         -5.625840e-02 -3.072464e-01           -0.3   0
## 8613         -2.243124e-02 -1.424036e-01            0.0   1
## 8614         -5.730489e-02 -7.950005e-03            0.3   0
## 8615         -9.139348e-02 -3.179272e-01           -0.4   0
## 8616          3.766522e-02  2.687148e-01            0.6   1
## 8617          4.271952e-02  1.925676e-01            0.1   1
## 8618         -1.152434e-01 -4.540230e-01           -0.4   0
## 8619          4.879117e-02 -1.827601e-02           -0.1   0
## 8620          1.931101e-02  2.459919e-01            0.3   0
## 8621         -2.006777e-02  1.029071e-01            0.2   1
## 8622          5.335040e-02  3.513408e-01            0.3   1
## 8623          7.166471e-02  3.494841e-01            0.3   1
## 8624         -5.198897e-02 -3.994572e-01           -0.3   0
## 8625         -3.200320e-02 -1.093627e-01            0.1   0
## 8626          5.890056e-02  3.393045e-01            0.7   1
## 8627         -1.699836e-03  8.373206e-02            0.0   0
## 8628          2.847790e-02 -3.896104e-02           -0.4   1
## 8629          5.430109e-02  9.254089e-02            0.3   0
## 8630         -1.019535e-01 -1.839856e-01           -0.2   0
## 8631         -6.789116e-03 -3.146353e-01           -0.2   0
## 8632          1.090408e-03 -1.309160e-01           -0.1   1
```

339

```
## 8633    -7.552064e-02 -4.079301e-01    -0.5    0
## 8634    -2.933020e-02 -2.016807e-02    -0.1    0
## 8635    -1.040764e-02 -1.570391e-02    -0.3    0
## 8636    -3.772167e-02 -1.325536e-01    -0.1    0
## 8637     1.523212e-02  1.800000e-01     0.3    0
## 8638     2.429692e-02  9.295245e-02     0.3    1
## 8639     2.962428e-02 -1.682243e-02     0.1    0
## 8640    -1.198763e-03 -4.444444e-02     0.2    0
## 8641     1.633828e-02 -5.942029e-02     0.1    0
## 8642    -1.652403e-02 -9.763768e-02     0.0    0
## 8643    -6.275314e-03 -3.281853e-02    -0.2    0
## 8644    -3.541720e-02 -1.151539e-01    -0.2    0
## 8645     4.113433e-02  2.665505e-01     0.4    1
## 8646     2.785735e-03  1.753827e-02     0.0    0
## 8647     7.208185e-03  1.927083e-01     0.0    1
## 8648     1.590953e-02  5.508982e-02     0.1    0
## 8649    -1.100935e-02 -8.383234e-02     0.0    1
## 8650     3.460290e-04  1.076023e-01    -0.2    1
## 8651    -5.755698e-02 -1.277090e-01    -0.1    0
## 8652     4.833616e-02  3.384755e-01     0.6    1
## 8653     7.532050e-02  1.325456e-01     0.3    1
## 8654     2.110982e-02  2.630987e-01    -0.1    1
## 8655     3.327973e-02  1.640798e-01     0.1    1
## 8656     4.048244e-02  1.800000e-01     0.2    1
## 8657     3.530558e-02  1.024599e-01     0.0    0
## 8658     1.167762e-02  4.450317e-02     0.3    0
## 8659     2.695476e-02 -5.630631e-03    -0.1    1
## 8660    -2.007103e-02  9.166667e-02     0.0    1
## 8661    -6.320078e-02 -1.092105e-01     0.0    1
## 8662    -7.127151e-03 -1.392324e-01     0.2    0
## 8663    -8.431693e-02 -3.599297e-01    -0.1    0
## 8664     7.819171e-02  3.353177e-01     0.4    0
## 8665    -4.179119e-03 -1.937984e-02     0.0    1
## 8666     3.365304e-04 -2.201835e-01    -0.3    0
## 8667    -7.121095e-02 -3.668942e-01    -0.2    0
## 8668    -1.386103e-02 -1.307641e-01     0.0    0
## 8669     1.021919e-02 -4.180418e-04     0.4    1
## 8670    -8.187790e-03 -2.574371e-01    -0.3    0
## 8671     5.253898e-03  6.500000e-02     0.0    0
## 8672     1.108693e-01  1.027273e-01     0.1    1
## 8673     7.956141e-02  2.993161e-01     0.3    1
## 8674    -8.473811e-04 -7.373795e-02     0.1    0
## 8675     8.315880e-03  4.685511e-02     0.0    1
## 8676     8.897891e-03  9.433962e-02     0.1    0
## 8677     3.138950e-02  1.842857e-01     0.2    0
## 8678     6.256781e-02  1.604396e-01     0.5    1
## 8679     4.426461e-02  2.475166e-01     0.2    1
## 8680    -1.266926e-02 -1.736950e-02    -0.3    0
## 8681     6.035816e-02  2.793324e-01     0.4    1
## 8682    -2.918173e-02 -2.623193e-01     0.1    1
## 8683     3.590112e-02  2.170279e-01    -0.1    1
## 8684     4.232723e-02  7.675549e-02     0.3    1
## 8685     2.176054e-02  5.831340e-02     0.0    1
## 8686    -7.940847e-02 -3.054126e-01    -0.3    0
## 8687     2.086787e-02  8.678161e-02     0.0    0
## 8688    -2.881470e-02  1.133401e-03    -0.1    0
## 8689    -2.140173e-02  2.005450e-01     0.1    0
## 8690    -7.085834e-02 -2.954545e-01    -0.2    1
```

```
## 8691          -6.952518e-02  3.856624e-03        0.0  1
## 8692          -9.362062e-02 -4.102136e-01       -0.4  0
## 8693           1.760424e-02 -8.474576e-03       -0.1  1
## 8694           4.159889e-03  1.738698e-02        0.2  0
## 8695          -7.613026e-03 -1.254783e-02       -0.2  0
## 8696           5.245128e-02  1.723553e-01        0.0  1
## 8697          -4.435552e-02 -1.775659e-01       -0.3  0
## 8698          -7.642544e-02 -2.133099e-01       -0.2  0
## 8699          -3.876622e-02 -4.049838e-02        0.0  0
## 8700           2.568966e-02 -4.528288e-02       -0.1  1
## 8701           1.128718e-02  2.370380e-01        0.0  0
## 8702           2.199551e-02  1.139792e-01        0.2  1
## 8703           2.900901e-02  2.327935e-02        0.0  0
## 8704           2.596384e-02  1.118107e-01        0.0  1
## 8705          -1.839542e-03  5.350395e-02        0.0  1
## 8706           3.684158e-02  1.041667e-01        0.2  0
## 8707          -2.725329e-02 -2.063010e-02       -0.1  0
## 8708          -1.865082e-02 -8.465074e-02        0.2  0
## 8709          -9.525140e-03  2.639296e-02        0.2  1
## 8710          -5.704118e-02 -1.231697e-01       -0.5  1
## 8711          -6.006666e-02 -2.379349e-01       -0.2  1
## 8712           4.855133e-02  7.407407e-02        0.0  1
## 8713           1.129236e-01  9.785976e-02        0.4  1
## 8714          -6.327614e-02 -2.588102e-01        0.0  0
## 8715           9.708299e-03  1.810311e-01        0.5  1
## 8716          -1.336431e-02  1.112235e-03        0.2  0
## 8717          -1.573932e-02 -1.605416e-01       -0.2  0
## 8718          -9.241628e-03 -1.058165e-01       -0.1  0
## 8719          -2.315043e-03 -1.547988e-02        0.1  1
## 8720           5.223617e-02  1.578873e-01        0.0  0
## 8721          -4.345549e-03 -7.168142e-02       -0.2  0
## 8722           3.439323e-02  5.316169e-02        0.2  1
## 8723          -1.825892e-02 -1.345580e-01       -0.2  0
## 8724          -2.941859e-02  1.015024e-01        0.1  1
## 8725           2.291665e-02 -1.296970e-01       -0.1  0
## 8726           5.967257e-02  1.321036e-01        0.0  1
## 8727          -9.267266e-02  1.157303e-01        0.1  1
## 8728           5.202472e-02  2.083333e-01        0.0  1
## 8729           8.247728e-03 -1.769978e-01       -0.1  0
## 8730           9.955660e-03 -3.030303e-02        0.4  1
## 8731          -5.603767e-02 -5.080645e-02        0.2  0
## 8732           6.128248e-02  3.589249e-01        0.4  1
## 8733          -4.705044e-02 -1.829758e-01       -0.3  0
## 8734           1.909703e-02  2.372549e-01        0.3  1
## 8735           4.097477e-02 -9.528424e-02       -0.5  0
## 8736          -8.704656e-02 -2.077273e-01        0.0  0
## 8737          -8.458436e-02 -1.588235e-01       -0.3  1
## 8738          -1.661349e-02  1.704545e-01        0.2  0
## 8739          -4.546807e-02 -3.694140e-01       -0.3  0
## 8740          -5.221420e-02  1.564775e-01        0.3  1
## 8741          -4.928801e-02 -5.511394e-02       -0.2  1
## 8742           6.527741e-02  6.478631e-03        0.1  1
## 8743          -2.161953e-02  6.293103e-02        0.0  0
## 8744           2.595355e-02  1.394336e-01        0.0  1
## 8745          -1.574233e-03 -1.584812e-01       -0.3  0
## 8746          -9.646982e-03  8.739837e-02       -0.1  0
## 8747           9.633614e-02  4.628564e-01        0.3  1
## 8748          -6.182966e-02 -3.003062e-01       -0.1  0
```

```
## 8749          2.697871e-02  2.210603e-01          0.1  1
## 8750         -4.417799e-02 -1.498340e-01         -0.1  1
## 8751          9.637138e-02  1.163751e-01          0.1  1
## 8752         -2.952193e-02 -9.851883e-02         -0.5  0
## 8753          6.734164e-02  8.061594e-02          0.3  1
## 8754         -1.487431e-02 -7.198748e-02          0.0  1
## 8755         -7.114253e-02 -2.084746e-01         -0.3  1
## 8756         -3.424503e-02 -2.166667e-01         -0.4  0
## 8757         -6.638150e-02 -3.679417e-02         -0.2  1
## 8758          2.843098e-02 -1.306636e-01          0.0  1
## 8759         -4.721272e-02 -1.702323e-01         -0.2  1
## 8760          4.692129e-02  1.579670e-01          0.1  1
## 8761         -6.823339e-02 -3.331604e-01         -0.2  0
## 8762          5.001878e-02  4.349196e-01          0.4  1
## 8763          5.212957e-02  3.486312e-01          0.1  0
## 8764          6.173196e-02  1.521174e-01          0.0  0
## 8765          1.263412e-01  2.451374e-01          0.2  1
## 8766         -6.693225e-02 -4.754402e-01         -0.3  0
## 8767          3.749748e-02  1.680656e-01          0.7  1
## 8768          6.114230e-02  2.324496e-01          0.3  1
## 8769         -3.605195e-02 -6.709957e-03          0.2  0
## 8770          8.554754e-02  3.239437e-01          0.4  1
## 8771          2.102386e-02  6.274510e-02          0.2  0
## 8772         -8.824687e-02 -2.012079e-01         -0.2  0
## 8773         -3.832195e-03 -5.200137e-03          0.0  0
## 8774          3.221635e-03 -2.051220e-02         -0.1  0
## 8775          7.048065e-02  1.234648e-01          0.2  1
## 8776         -1.902802e-02  2.577320e-02         -0.1  1
## 8777         -1.862252e-02 -1.010201e-01         -0.3  0
## 8778          5.911978e-02  1.554968e-02          0.0  1
## 8779          5.232235e-02 -1.323146e-01         -0.1  1
## 8780          2.136210e-02 -1.093488e-01         -0.2  1
## 8781         -5.312982e-02 -1.987550e-01         -0.3  0
## 8782         -6.623818e-02 -4.847416e-02         -0.2  0
## 8783          4.214344e-02  5.169562e-02          0.1  1
## 8784          2.856798e-02  2.584893e-02          0.1  0
## 8785         -2.614795e-02 -1.887241e-01          0.1  0
## 8786         -7.336505e-02 -1.177663e-01          0.2  1
## 8787          3.150140e-02  2.475886e-01          0.1  1
## 8788          5.260766e-02  8.479442e-02         -0.2  1
## 8789         -5.477404e-02 -3.351596e-01         -0.2  0
## 8790          7.022467e-02  2.879688e-01          0.1  1
## 8791          2.224954e-02 -2.131595e-01         -0.1  0
## 8792         -2.546808e-02  4.027778e-02         -0.2  1
## 8793          6.304214e-03 -1.080344e-01         -0.3  0
## 8794         -1.746584e-02 -4.233367e-02          0.0  1
## 8795          1.993390e-02 -1.533879e-01         -0.1  0
## 8796          3.066309e-02 -1.220096e-01          0.2  0
## 8797          4.467204e-02  6.857143e-02          0.2  1
## 8798          8.226907e-03  2.633262e-01          0.2  1
## 8799          3.149970e-02  3.623188e-02          0.0  1
## 8800          2.089135e-02  9.370629e-02          0.3  0
## 8801         -2.044772e-02  2.187379e-02          0.1  1
## 8802         -6.579291e-03  6.448203e-03          0.1  1
## 8803         -3.049486e-02 -2.053140e-02         -0.2  0
## 8804          2.804970e-02  6.663560e-02          0.0  0
## 8805          4.604794e-02  1.389531e-01          0.1  1
## 8806         -8.010260e-03 -1.215617e-01         -0.4  0
```

```
## 8807        1.607711e-02  5.321381e-02         -0.1   0
## 8808        9.543004e-02  1.657370e-01          0.1   1
## 8809       -6.582049e-03 -5.064845e-03          0.0   1
## 8810        2.123356e-02 -1.414666e-02          0.1   1
## 8811        1.750402e-02 -2.058971e-01         -0.1   0
## 8812        7.169886e-03  8.008658e-03          0.0   1
## 8813       -1.372427e-02  1.419255e-01          0.2   1
## 8814       -7.938430e-03 -1.463232e-01          0.1   1
## 8815        7.978999e-03 -2.621398e-02         -0.1   1
## 8816        3.276880e-02 -4.761905e-02          0.3   1
## 8817        1.850991e-02  6.917536e-02         -0.1   1
## 8818       -9.248533e-03 -1.615385e-01         -0.2   1
## 8819        2.700541e-02  6.709957e-02          0.1   1
## 8820       -3.171530e-02 -1.773772e-01          0.0   0
## 8821        1.619112e-02 -1.015404e-01          0.2   1
## 8822       -7.711991e-02 -3.130349e-01         -0.2   0
## 8823        7.810504e-03 -3.088372e-02          0.1   1
## 8824        5.653236e-02  3.822464e-02          0.0   0
## 8825        2.837330e-02 -1.159817e-01         -0.4   0
## 8826        8.163775e-02  2.100000e-01          0.1   1
## 8827       -3.636468e-02 -1.848963e-01         -0.3   1
## 8828       -4.283649e-02 -6.863418e-02         -0.1   1
## 8829        1.251498e-02 -1.383229e-02         -0.1   1
## 8830       -4.657478e-02 -3.328883e-01         -0.5   0
## 8831       -3.184554e-02 -2.327839e-01         -0.3   1
## 8832        2.283434e-02  4.945374e-02          0.1   1
## 8833        4.947022e-02  1.300940e-01          0.2   0
## 8834       -1.276584e-01 -2.640429e-01         -0.2   0
## 8835        1.189753e-03 -9.396054e-02          0.0   0
## 8836        2.947509e-02  1.217316e-01         -0.1   0
## 8837       -1.015928e-01 -3.260811e-01         -0.3   0
## 8838       -8.601560e-04 -2.979820e-01         -0.3   0
## 8839        1.173776e-02  1.705665e-01          0.1   0
## 8840       -6.434758e-02 -1.957970e-01         -0.2   0
## 8841        1.079084e-01  3.601563e-01          0.3   1
## 8842       -4.219888e-02 -6.203055e-02         -0.3   0
## 8843        2.743501e-02  1.981653e-01          0.3   1
## 8844       -1.283585e-02 -7.565227e-03         -0.2   1
## 8845       -6.079838e-02 -4.041321e-01         -0.4   0
## 8846        5.618361e-02  3.971556e-01          0.4   1
## 8847       -6.141178e-02 -2.182362e-01         -0.1   0
## 8848        2.503610e-02  6.620624e-02          0.2   0
## 8849       -7.403620e-02 -3.171367e-01         -0.1   0
## 8850       -6.581142e-03  7.051282e-02          0.1   1
## 8851       -2.524510e-02 -3.352676e-02         -0.2   1
## 8852       -4.613772e-03  4.711304e-02          0.0   1
## 8853       -5.381768e-02 -3.854342e-01         -0.3   0
## 8854        5.974596e-02  4.103735e-01          0.3   1
## 8855        3.348126e-02  3.367003e-04          0.0   0
## 8856        1.080106e-01  1.691751e-01          0.2   1
## 8857       -2.509589e-02 -1.461443e-02          0.1   0
## 8858       -2.898664e-02 -2.382318e-01         -0.4   0
## 8859        6.374992e-02  1.896739e-01          0.4   1
## 8860       -3.880166e-02  1.129871e-02         -0.1   0
## 8861       -9.681300e-02 -2.168746e-01         -0.2   0
## 8862        8.107377e-02  3.888438e-01          0.5   1
## 8863        1.691256e-02 -8.455552e-02          0.2   0
## 8864        3.119265e-02 -5.913462e-02          0.1   0
```

```
## 8865          -3.945279e-02 -2.541414e-01          -0.4    0
## 8866           2.936771e-03  2.281746e-01           0.0    1
## 8867          -3.950110e-02 -1.649730e-01          -0.1    0
## 8868          -9.816168e-03 -4.058509e-02           0.0    0
## 8869           1.106918e-01  3.580164e-01           0.1    1
## 8870          -7.989163e-02 -2.390313e-01          -0.3    0
## 8871           1.748921e-02  1.454549e-01           0.1    0
## 8872           2.336742e-02 -5.482788e-02          -0.1    0
## 8873           4.963381e-02  1.619516e-01           0.3    1
## 8874          -3.676037e-02 -1.529064e-01           0.0    1
## 8875           1.554914e-02 -8.938160e-02          -0.1    0
## 8876          -4.542998e-02 -2.916003e-01          -0.2    0
## 8877           2.116205e-02 -2.230502e-01          -0.1    0
## 8878           4.399912e-02  1.677078e-01           0.0    1
## 8879          -9.111392e-02 -2.057772e-01          -0.1    1
## 8880          -2.374003e-02 -8.452223e-02          -0.1    0
## 8881          -7.930374e-03 -1.077358e-02           0.0    1
## 8882           2.503884e-02  4.981884e-02           0.2    1
## 8883           7.320250e-02  1.485507e-01           0.2    1
## 8884           2.320080e-02 -9.913793e-02           0.2    1
## 8885          -1.648073e-02  3.767661e-02           0.0    1
## 8886           2.453587e-03  5.000000e-02           0.2    0
## 8887          -6.976804e-02 -1.917647e-01          -0.2    0
## 8888           7.626164e-02  9.036658e-02           0.1    0
## 8889          -1.743210e-02 -6.103732e-02          -0.1    0
## 8890           1.206836e-02  1.458517e-01           0.0    1
## 8891           9.177870e-03  8.295302e-02          -0.1    1
## 8892           4.122386e-02  3.464419e-02           0.0    0
## 8893          -2.983228e-02  2.239305e-01           0.1    1
## 8894           2.286277e-02  9.523810e-03           0.3    1
## 8895          -6.174235e-02  7.113068e-02           0.2    1
## 8896          -4.395802e-02 -1.921368e-01          -0.3    0
## 8897          -8.017427e-02 -2.519364e-01          -0.2    1
## 8898          -3.631175e-02 -1.238636e-01          -0.1    1
## 8899          -1.483435e-02 -7.177661e-02          -0.2    0
## 8900           4.446366e-02  1.504175e-01           0.3    0
## 8901           6.381852e-02  2.832555e-01           0.1    0
## 8902           5.532864e-02  3.815629e-03          -0.1    1
## 8903          -4.394864e-03  5.633803e-02          -0.3    1
## 8904          -7.400897e-02 -2.709469e-01           0.0    0
## 8905          -1.929272e-03 -2.624930e-02          -0.1    0
## 8906           1.441737e-03 -3.626016e-02          -0.1    0
## 8907          -3.217681e-02 -1.908213e-01           0.1    1
## 8908          -5.867719e-03 -1.295400e-02          -0.1    1
## 8909          -1.125541e-02 -2.354554e-01           0.1    0
## 8910          -9.903247e-02 -2.197640e-01          -0.2    1
## 8911           4.111635e-03 -5.506884e-02          -0.1    1
## 8912           2.090434e-02  1.182730e-01           0.2    0
## 8913          -6.807141e-03 -8.956842e-02          -0.3    0
## 8914          -2.417842e-02 -1.893780e-01           0.0    0
## 8915          -1.520885e-02 -1.178477e-01           0.1    0
## 8916           3.088390e-02  2.091416e-01           0.0    1
## 8917           4.265043e-04  3.167390e-03           0.0    1
## 8918          -5.766966e-02 -2.026862e-01           0.0    0
## 8919          -4.431230e-02 -7.237386e-02           0.1    0
## 8920          -3.622746e-02 -2.052177e-02          -0.5    1
## 8921          -2.271070e-02 -1.401070e-01           0.0    0
## 8922           1.321939e-04  1.693246e-02          -0.2    0
```

```
## 8923          2.721056e-02  6.146298e-02          0.0   0
## 8924          2.145692e-02  2.413034e-01          0.0   0
## 8925          5.135175e-02  2.378137e-02          0.0   0
## 8926          1.721702e-02  9.371256e-02          0.1   0
## 8927          4.734785e-02  4.794066e-02          0.3   1
## 8928          8.479908e-03  4.331153e-02          0.0   0
## 8929          1.467060e-02 -7.440476e-02         -0.2   0
## 8930         -6.670669e-02 -2.596711e-01         -0.3   0
## 8931          5.240767e-03  2.173913e-02         -0.2   1
## 8932          5.450755e-02  3.085664e-01          0.0   1
## 8933          4.790542e-02  1.919384e-01          0.3   1
## 8934          3.011368e-03 -1.726368e-02          0.1   1
## 8935          1.620678e-02  7.146119e-02          0.2   0
## 8936         -6.216788e-02 -2.266407e-01         -0.1   0
## 8937          3.399091e-02 -6.775068e-02         -0.2   0
## 8938         -4.749575e-03  3.653654e-02          0.1   1
## 8939          1.213121e-02  4.989940e-02          0.2   0
## 8940          7.484895e-04 -7.207207e-02          0.2   0
## 8941          7.719664e-02  1.284687e-04          0.0   0
## 8942          4.224408e-03  4.438907e-02          0.0   1
## 8943          1.499893e-02  2.175191e-02          0.0   0
## 8944         -3.778083e-02  8.993793e-02          0.0   1
## 8945          4.556417e-02  1.325536e-01          0.1   0
## 8946          6.234940e-03  9.890806e-03          0.0   1
## 8947         -9.811316e-02 -5.126178e-01         -0.3   0
## 8948          4.145365e-02  9.407019e-02         -0.1   1
## 8949         -4.390553e-02 -1.111111e-01         -0.2   0
## 8950         -2.727037e-02 -2.862070e-01         -0.2   0
## 8951         -1.416980e-03  9.739461e-03          0.0   1
## 8952         -1.983174e-02 -1.571665e-01         -0.1   0
## 8953         -9.446157e-03 -3.909026e-02          0.1   0
## 8954         -9.246047e-02 -2.031943e-01         -0.2   0
## 8955          1.355529e-02  1.001147e-01          0.0   1
## 8956         -3.351845e-02  2.107083e-03          0.0   1
## 8957          4.066419e-02  8.578921e-02          0.0   0
## 8958         -7.960164e-02 -3.018155e-01         -0.3   0
## 8959          6.008311e-02  2.139370e-01          0.4   1
## 8960          3.429953e-02  4.574551e-02          0.0   0
## 8961          4.315061e-02  2.706943e-01          0.3   0
## 8962          7.534076e-02  3.772323e-01          0.4   1
## 8963         -7.452184e-02 -3.591228e-01         -0.3   0
## 8964          5.106549e-03  2.104866e-01         -0.1   1
## 8965         -7.410343e-02 -7.997998e-02         -0.1   0
## 8966          9.421994e-02  1.693782e-01         -0.1   1
## 8967          9.495790e-02  4.072000e-01          0.3   1
## 8968         -7.857657e-02 -2.133331e-01          0.1   1
## 8969          8.685690e-02  4.554879e-01          0.6   1
## 8970         -3.478948e-02 -1.076153e-01         -0.1   1
## 8971         -5.635809e-02  2.741935e-02          0.0   1
## 8972          3.627830e-02  1.308154e-01          0.2   1
## 8973         -8.051435e-02 -3.697068e-01         -0.1   0
## 8974         -3.736977e-04  8.550195e-02         -0.1   0
## 8975          2.543322e-02 -4.580555e-02         -0.2   1
## 8976         -5.351702e-02 -1.389654e-01          0.0   1
## 8977          1.698158e-03  8.413089e-02          0.0   0
## 8978         -3.417992e-02 -1.460481e-01          0.1   1
## 8979          2.287921e-02  1.471861e-02          0.2   1
## 8980          1.200874e-02  7.157523e-02          0.2   0
```

```
## 8981        -3.783082e-03  1.459215e-02           0.3   1
## 8982         2.583176e-02 -5.744681e-02          -0.1   0
## 8983        -3.114179e-02  1.956522e-02           0.0   0
## 8984         9.950210e-03 -5.931373e-02           0.1   1
## 8985         3.569218e-02  1.516854e-01           0.0   0
## 8986        -3.435900e-02 -1.606838e-01          -0.3   0
## 8987         1.754741e-02 -4.921894e-02           0.1   0
## 8988         3.947741e-02  1.296608e-01           0.2   1
## 8989        -5.824061e-02 -8.575009e-02          -0.4   0
## 8990         5.128245e-03 -6.531987e-02          -0.1   1
## 8991         3.560342e-02  1.323529e-02          -0.1   1
## 8992        -1.586902e-02  9.387755e-02           0.0   0
## 8993        -9.624867e-02 -2.893519e-01          -0.4   1
## 8994        -7.433045e-02 -3.612479e-02           0.1   0
## 8995         9.501595e-03 -4.018019e-02          -0.2   1
## 8996         1.751822e-02  1.119048e-01           0.4   1
## 8997        -1.844559e-02 -7.008671e-02          -0.1   0
## 8998         4.830263e-02  1.864570e-01           0.2   1
## 8999         1.765310e-02 -2.294982e-02           0.0   1
## 9000         8.953460e-03  1.822042e-01           0.2   1
## 9001         3.505010e-02 -8.237861e-02          -0.2   0
## 9002         1.998666e-02  2.539683e-02           0.0   0
## 9003        -8.296091e-02 -4.289667e-01          -0.2   0
## 9004        -3.730890e-04  6.662696e-02          -0.2   0
## 9005         2.246222e-02  4.777062e-02           0.2   0
## 9006         1.769743e-02 -1.654457e-01           0.1   0
## 9007         5.554938e-03  3.255977e-01           0.3   1
## 9008        -7.819183e-02 -2.893185e-01          -0.4   0
## 9009        -6.940361e-02 -2.144765e-01           0.1   0
## 9010        -1.534326e-02 -1.560720e-01          -0.1   1
## 9011        -3.805720e-02  5.968254e-02           0.1   0
## 9012        -2.991599e-02 -1.298301e-01          -0.3   0
## 9013         3.707868e-02 -2.241546e-02           0.1   1
## 9014         2.584435e-02  2.993997e-01           0.1   1
## 9015         3.379135e-02  1.452519e-01           0.0   1
## 9016         1.958025e-05 -1.733309e-01           0.3   1
## 9017         3.922336e-02 -1.158676e-02          -0.1   0
## 9018         1.173637e-02  1.889106e-02           0.2   0
## 9019        -4.784311e-02 -1.577081e-01           0.0   0
## 9020        -1.175158e-02  1.033535e-01          -0.1   0
## 9021        -5.073373e-02 -3.494561e-01          -0.3   0
## 9022        -3.966218e-03 -2.719503e-02           0.2   1
## 9023        -4.926442e-04 -1.459790e-01          -0.1   1
## 9024         3.742879e-02  1.306709e-01           0.0   1
## 9025        -5.659474e-03 -1.039746e-01          -0.1   0
## 9026        -3.014796e-02 -4.706280e-02          -0.1   1
## 9027        -4.423031e-02 -2.089014e-01          -0.2   0
## 9028         6.376189e-02  4.007685e-01           0.3   0
## 9029         5.702680e-02  3.688403e-01           0.2   1
## 9030        -2.735992e-02 -5.931784e-02           0.1   0
## 9031        -1.830929e-02 -3.684211e-02           0.0   1
## 9032        -3.583101e-02 -4.062183e-02           0.0   0
## 9033        -1.795596e-02 -9.766260e-02          -0.1   0
## 9034         1.724824e-02  2.865773e-01           0.4   1
## 9035         4.517683e-02  6.570393e-02           0.0   1
## 9036        -2.245811e-02 -2.094828e-01          -0.1   1
## 9037        -4.262653e-02 -1.253013e-01           0.1   1
## 9038        -3.736175e-02 -4.653072e-02           0.1   1
```

```
## 9039         5.943298e-02  1.797840e-01            0.0   1
## 9040         4.938999e-02  1.979167e-01            0.1   0
## 9041         3.473968e-02 -6.289274e-02           -0.2   0
## 9042        -9.982814e-04 -1.581270e-01           -0.1   0
## 9043        -2.047002e-03 -5.143571e-02            0.0   0
## 9044        -6.338903e-02 -1.417367e-01            0.1   1
## 9045         3.605066e-04  3.225806e-02            0.0   0
## 9046        -2.533080e-02  1.464592e-02           -0.2   0
## 9047         4.865228e-02 -3.571429e-02            0.0   1
## 9048        -1.206804e-02 -6.384677e-05            0.1   1
## 9049         1.034159e-03 -2.342954e-02            0.1   1
## 9050        -2.819551e-02 -1.982456e-01           -0.1   1
## 9051         6.698833e-02  3.065539e-01            0.2   0
## 9052         3.045389e-02  1.207510e-01            0.1   0
## 9053        -3.123987e-02  1.047619e-02            0.2   0
## 9054        -3.526160e-02  1.382576e-01            0.3   1
## 9055        -1.453303e-03 -3.527098e-02           -0.2   0
## 9056         1.895041e-04  1.930221e-02           -0.3   1
## 9057         1.349193e-03 -1.059638e-01            0.0   0
## 9058         3.514724e-03  1.168782e-01            0.0   0
## 9059         2.900633e-02  8.332194e-02            0.0   0
## 9060         8.118987e-02  2.800378e-01            0.5   1
## 9061        -6.657513e-02  1.330837e-01            0.0   1
## 9062         3.198015e-02  9.296898e-02            0.0   1
## 9063         1.595017e-02  1.057348e-02            0.0   0
## 9064         3.827257e-02  1.976526e-01            0.5   0
## 9065        -3.379925e-03  7.711512e-02            0.2   0
## 9066        -4.239718e-02 -2.319785e-02            0.1   0
## 9067        -9.830885e-03  4.761905e-02            0.0   0
## 9068        -5.042060e-02 -1.451110e-01           -0.2   0
## 9069         4.076486e-02  5.617382e-02            0.1   1
## 9070        -5.419681e-03  5.434783e-03           -0.3   1
## 9071         3.356942e-02  1.517316e-01           -0.4   0
## 9072        -1.006837e-02 -4.673616e-02           -0.2   0
## 9073        -8.388870e-03 -6.920557e-02            0.0   0
## 9074         1.015533e-01  2.036885e-01            0.4   1
## 9075        -6.985731e-02 -2.188098e-01           -0.2   0
## 9076         4.991249e-02  2.709745e-01            0.3   1
## 9077        -4.228602e-02  1.153650e-02           -0.1   1
## 9078         6.337649e-02  6.929047e-02            0.1   1
## 9079        -4.643544e-03  6.978233e-02           -0.2   0
## 9080         6.515366e-03 -1.471292e-01            0.0   1
## 9081        -3.027358e-02 -1.618285e-02            0.1   1
## 9082        -1.083323e-01 -2.026424e-01           -0.2   1
## 9083        -3.945462e-02 -1.069624e-01            0.0   0
## 9084        -5.023293e-02 -2.741627e-01           -0.1   0
## 9085        -5.468730e-02  8.714722e-02            0.0   1
## 9086         4.680020e-03 -9.565108e-02           -0.1   0
## 9087        -5.451080e-02 -1.631676e-01            0.0   1
## 9088        -7.690510e-02 -2.528767e-01           -0.2   1
## 9089         2.235024e-02 -5.413795e-02            0.1   1
## 9090         1.137753e-02 -3.102936e-02            0.0   0
## 9091         5.589006e-03 -2.766061e-02            0.0   0
## 9092         1.121684e-02  2.272927e-01            0.4   0
## 9093        -6.351966e-02 -1.715368e-01           -0.2   0
## 9094        -2.625817e-02  1.363636e-01            0.0   0
## 9095         4.714122e-02  5.500037e-02            0.1   1
## 9096        -1.317863e-02 -1.209981e-01            0.1   0
```

```
## 9097           -2.447071e-02 -8.748900e-02            -0.2    0
## 9098           -2.592307e-02 -5.806906e-02             0.1    1
## 9099           -4.679986e-02 -2.508021e-01            -0.1    0
## 9100           -7.722214e-03  8.561534e-02            -0.4    0
## 9101            6.856121e-02  3.274270e-01             0.3    1
## 9102            1.342430e-02  4.835165e-02            -0.2    1
## 9103            2.847121e-02  7.633269e-02             0.3    1
## 9104            1.292724e-02 -1.315789e-01            -0.6    0
## 9105            8.979334e-04  1.860945e-01            -0.1    1
## 9106           -1.778204e-02 -3.791502e-02             0.0    0
## 9107           -1.677588e-02  3.133903e-03            -0.2    0
## 9108           -3.963026e-02 -5.228508e-02             0.1    1
## 9109            7.070351e-02  1.758999e-01             0.0    0
## 9110            1.127194e-01  2.745060e-01             0.1    1
## 9111            5.860736e-02  1.484624e-02             0.0    1
## 9112            8.304737e-03 -3.407789e-02            -0.2    0
## 9113            7.302162e-02  2.132811e-01             0.2    1
## 9114           -7.632772e-02 -2.931838e-01            -0.2    0
## 9115           -2.919258e-02  7.968313e-02             0.3    1
## 9116            2.467672e-02  1.767430e-01             0.4    1
## 9117           -4.707755e-03 -1.377218e-01            -0.3    0
## 9118            2.170542e-02  1.962439e-01             0.2    0
## 9119           -2.708831e-02 -8.692529e-02            -0.1    1
## 9120           -5.537553e-02 -2.196114e-01             0.2    1
## 9121            7.905512e-03 -1.148631e-01             0.1    0
## 9122            8.379066e-02  1.712018e-01             0.1    1
## 9123            1.577103e-02  1.358334e-01             0.2    1
## 9124            2.135467e-02 -5.303228e-02             0.1    1
## 9125           -1.953031e-02 -1.872428e-01            -0.2    1
## 9126           -4.838150e-02 -3.189120e-01            -0.1    0
## 9127           -1.150898e-01 -2.334732e-01            -0.2    0
## 9128           -1.531217e-02 -2.564103e-02             0.0    0
## 9129            4.205676e-02  3.120862e-01             0.2    1
## 9130           -7.633340e-02 -3.882441e-01            -0.2    0
## 9131           -2.868498e-02 -1.395095e-01             0.0    0
## 9132            2.033767e-02  1.201299e-01             0.4    1
## 9133            4.094148e-02  3.067602e-01            -0.1    0
## 9134            9.228728e-02  1.721491e-02            -0.3    0
## 9135            5.015110e-02 -1.154785e-01             0.1    0
## 9136            2.491519e-03  1.058046e-01             0.0    0
## 9137            8.109804e-03  1.619252e-01            -0.1    1
## 9138           -5.085634e-03  5.093253e-02            -0.1    1
## 9139           -3.388826e-02  8.752215e-02             0.5    1
## 9140            2.106917e-03  1.984337e-01             0.1    1
## 9141           -7.507658e-02 -3.400433e-01             0.0    0
## 9142            3.483237e-02  1.284718e-01            -0.3    0
## 9143            6.899434e-02  2.327608e-01            -0.2    1
## 9144            5.955893e-02  2.724370e-01             0.2    1
## 9145           -4.057308e-02 -2.683264e-01            -0.3    1
## 9146           -1.179920e-02  1.077246e-01             0.0    1
## 9147            8.022363e-02  1.049521e-01             0.2    0
## 9148            3.625870e-02  1.946403e-01            -0.3    1
## 9149            5.235247e-02  4.978346e-02             0.0    0
## 9150           -3.333205e-02 -5.570652e-02            -0.5    1
## 9151            3.764919e-02  1.059295e-01             0.1    1
## 9152            2.709176e-02  1.311612e-01             0.4    1
## 9153            1.182360e-01  1.282854e-01            -0.1    1
## 9154           -3.483085e-03  4.655650e-02             0.3    0
```

```
## 9155        3.368987e-02  1.382684e-01            0.1  1
## 9156       -3.552261e-02 -1.524256e-01            0.0  0
## 9157        3.491511e-02 -9.448052e-02            0.1  1
## 9158       -5.429255e-03 -2.824859e-03           -0.1  1
## 9159       -1.025869e-02 -2.771916e-02            0.0  0
## 9160       -5.603204e-03  4.202586e-02            0.1  0
## 9161        8.326925e-03  3.921569e-02           -0.1  1
## 9162        6.880904e-02  1.656566e-01            0.2  1
## 9163        2.598983e-02 -9.925416e-03            0.1  1
## 9164       -1.159422e-03  6.376578e-02            0.0  1
## 9165       -5.463878e-02 -9.496124e-02            0.0  0
## 9166        7.535494e-02  2.800513e-01            0.5  1
## 9167       -3.435969e-02 -2.595745e-01            0.0  0
## 9168       -3.072279e-02 -1.252772e-01           -0.1  1
## 9169        5.716194e-02  2.782101e-01            0.1  1
## 9170        1.012819e-01  3.921185e-01            0.6  1
## 9171        1.086649e-02  2.166236e-01            0.4  1
## 9172       -5.230028e-02  5.568293e-02            0.4  1
## 9173       -6.414007e-02 -2.238894e-01           -0.4  0
## 9174       -1.120087e-01 -2.825480e-01           -0.3  0
## 9175        3.377560e-03 -1.190891e-01           -0.1  0
## 9176       -1.712035e-02 -7.024793e-02            0.3  0
## 9177        8.138194e-02  3.423497e-01            0.2  0
## 9178       -7.050562e-02 -3.530248e-01           -0.3  0
## 9179        7.292268e-02  1.832238e-01            0.2  1
## 9180       -2.140277e-02 -1.707522e-02            0.1  0
## 9181        5.458967e-02  3.528630e-01            0.5  1
## 9182       -5.607818e-02 -2.729032e-01           -0.3  0
## 9183        3.419667e-02  2.314507e-01            0.2  1
## 9184        3.713690e-03  6.225750e-02            0.1  0
## 9185        2.731100e-02  1.374231e-01           -0.1  0
## 9186        3.869845e-02 -4.007802e-02           -0.1  1
## 9187       -4.126553e-03 -2.038124e-02            0.0  1
## 9188       -1.421083e-03 -1.960819e-01            0.1  0
## 9189       -2.464750e-02 -2.801933e-01           -0.4  0
## 9190       -2.990276e-02 -9.507722e-02           -0.2  0
## 9191       -4.472288e-04  5.105423e-02           -0.2  0
## 9192       -8.297109e-02 -1.678497e-01            0.0  0
## 9193       -2.829525e-02 -1.014034e-01           -0.2  0
## 9194        3.417045e-02  2.982565e-01            0.0  1
## 9195       -2.808013e-02  2.139506e-01            0.2  1
## 9196       -5.253550e-03 -6.786594e-03            0.0  1
## 9197       -1.762763e-02 -3.571429e-02            0.0  0
## 9198       -2.193069e-03 -1.741742e-01           -0.3  0
## 9199       -2.387909e-02  6.858746e-02           -0.1  0
## 9200       -5.266787e-02 -8.414443e-02           -0.1  0
## 9201        7.594490e-03 -5.057857e-02           -0.2  1
## 9202       -9.618230e-03 -1.658900e-01           -0.2  0
## 9203        2.297115e-02  6.767765e-02            0.0  0
## 9204        1.735679e-02 -1.129084e-02            0.2  1
## 9205        3.586427e-02  5.000000e-02           -0.3  0
## 9206        5.240619e-02  1.203358e-01           -0.1  1
## 9207        1.359249e-02  1.163559e-01            0.0  1
## 9208       -3.360405e-02 -1.735951e-01           -0.1  0
## 9209       -1.084389e-02 -1.252252e-01           -0.4  0
## 9210        1.267274e-01  1.303242e-01            0.0  1
## 9211       -6.354907e-02 -1.300957e-01           -0.2  0
## 9212       -1.913336e-02  1.633878e-01            0.1  1
```

```
## 9213         1.685327e-02 -2.506266e-03        -0.4   0
## 9214        -6.491892e-02 -2.088007e-01         0.0   0
## 9215        -6.810792e-02 -1.911238e-01         0.0   0
## 9216         2.222459e-02  1.382979e-01         0.1   1
## 9217        -1.655788e-02 -1.422172e-01        -0.1   0
## 9218         2.239980e-02 -5.833333e-02         0.3   0
## 9219        -3.935239e-02 -2.057250e-02         0.5   1
## 9220        -5.781282e-04 -1.416607e-01         0.2   1
## 9221         5.709051e-03  2.618135e-03         0.0   1
## 9222        -4.475054e-02 -1.064918e-01        -0.3   0
## 9223        -5.864064e-02 -7.680492e-02         0.0   1
## 9224        -1.008234e-04  3.507463e-02        -0.1   1
## 9225        -1.094718e-02 -7.781912e-02         0.0   0
## 9226         5.131018e-02  8.481124e-02        -0.1   1
## 9227         6.953032e-02  1.395961e-01         0.0   0
## 9228        -1.520499e-02  3.715631e-02        -0.2   0
## 9229        -9.318248e-03 -1.246110e-01         0.4   0
## 9230         8.940512e-03  1.402049e-01         0.0   0
## 9231         2.430754e-02 -5.288176e-02        -0.2   0
## 9232         9.444647e-02 -6.022341e-02        -0.1   1
## 9233         3.492907e-02  8.041804e-02         0.3   1
## 9234        -2.849819e-02 -1.105854e-01         0.1   0
## 9235        -2.200377e-02  8.033544e-02         0.0   0
## 9236        -8.790630e-02 -8.576534e-02         0.1   0
## 9237         4.505820e-02  7.142857e-02         0.0   1
## 9238         4.697404e-02 -6.622879e-02        -0.1   0
## 9239        -1.706958e-02 -5.179028e-02        -0.3   0
## 9240         7.961605e-02  5.230159e-01         0.6   1
## 9241        -2.233762e-02 -1.582343e-01        -0.2   0
## 9242         1.489091e-02  1.465603e-01         0.2   1
## 9243         5.099473e-02  5.214940e-02        -0.2   0
## 9244        -3.163822e-02 -2.168367e-01        -0.3   1
## 9245         6.081581e-02  1.942857e-01         0.1   0
## 9246        -7.237164e-02 -3.419512e-01        -0.4   1
## 9247        -5.199290e-02  5.359337e-02         0.3   0
## 9248         3.541690e-02  9.090909e-03        -0.2   0
## 9249        -9.515755e-02 -1.911062e-01         0.0   0
## 9250        -3.394585e-03  3.818671e-02        -0.3   1
## 9251         1.477919e-02  3.689305e-01         0.4   1
## 9252        -5.340095e-02 -1.875565e-01         0.0   1
## 9253        -2.136643e-02 -7.836969e-02        -0.1   1
## 9254         1.153810e-02  8.695652e-03        -0.1   0
## 9255         7.712134e-03  2.268155e-01         0.0   1
## 9256        -2.931871e-02 -3.787879e-02         0.2   1
## 9257         1.038187e-02 -9.835165e-02        -0.3   0
## 9258        -1.035648e-02  2.469711e-01         0.3   1
## 9259         4.166296e-02  1.900824e-01         0.2   1
## 9260        -5.701561e-03 -8.454909e-02         0.4   1
## 9261         1.418818e-02  8.040061e-02         0.2   1
## 9262         1.520588e-02 -1.061180e-01        -0.2   0
## 9263         1.057360e-01  3.037243e-01         0.5   1
## 9264         1.014936e-02  4.963456e-02         0.3   1
## 9265        -4.874628e-02  2.687747e-02        -0.1   1
## 9266        -6.073501e-02 -4.400810e-01        -0.2   0
## 9267        -2.943149e-02 -3.239130e-01        -0.1   1
## 9268        -1.515518e-02 -7.190669e-02        -0.1   0
## 9269         2.571538e-02  1.884058e-01         0.0   1
## 9270         1.545661e-02  2.454762e-01         0.2   1
```

350

```
## 9271         2.326813e-02 -2.341966e-01          -0.4   1
## 9272         5.976255e-02  7.744108e-02          -0.1   0
## 9273        -4.522696e-02 -2.380450e-01          -0.2   0
## 9274         6.119776e-02  1.756098e-01           0.6   1
## 9275         4.286567e-03  4.878618e-02           0.1   1
## 9276        -1.124332e-01 -2.549949e-01          -0.5   0
## 9277        -1.019354e-01 -4.228463e-01          -0.4   0
## 9278         9.605480e-03 -9.562842e-03           0.0   1
## 9279         2.198042e-02  9.243697e-02           0.1   0
## 9280         3.101402e-02  9.042794e-02           0.0   1
## 9281        -3.105727e-02 -4.672897e-03          -0.1   1
## 9282        -8.975098e-03  7.248619e-02           0.0   0
## 9283        -1.931492e-02 -1.610109e-01          -0.2   1
## 9284        -4.710907e-02 -2.546380e-01          -0.2   0
## 9285         3.596592e-02  1.753004e-01           0.4   1
## 9286         1.010051e-02 -2.200000e-01          -0.3   0
## 9287         8.039373e-02  2.536516e-01           0.3   1
## 9288        -1.942643e-02 -1.254442e-01           0.0   0
## 9289         1.020321e-01  4.360934e-01           0.7   1
## 9290         5.323221e-02  3.421677e-01           0.3   1
## 9291        -3.980857e-02 -6.606781e-02           0.0   0
## 9292         1.225640e-02  9.716599e-02           0.0   1
## 9293         6.274984e-05  3.846154e-02           0.1   1
## 9294        -9.983495e-02 -1.457122e-01          -0.2   0
## 9295        -2.264519e-03  6.413914e-02           0.1   0
## 9296        -5.304560e-02 -3.942496e-01          -0.3   0
## 9297        -4.863670e-03 -1.265618e-01          -0.4   0
## 9298         7.118059e-02  1.491591e-01          -0.1   0
## 9299        -6.289430e-03 -2.221005e-01           0.2   0
## 9300        -4.045525e-02  1.111658e-02          -0.1   1
## 9301        -5.576852e-02 -1.924027e-01           0.2   0
## 9302        -2.861857e-02 -1.508230e-01          -0.4   0
## 9303         2.905358e-02  1.150857e-01           0.0   1
## 9304        -6.748167e-02 -3.639847e-01          -0.3   0
## 9305         1.030729e-01  5.265152e-01           0.5   1
## 9306        -1.463634e-02 -5.427898e-02          -0.2   0
## 9307        -3.361823e-03 -2.859961e-01          -0.2   0
## 9308         1.227722e-01  2.359144e-01           0.2   1
## 9309         3.873479e-03  8.655462e-02           0.1   0
## 9310         4.625668e-02  8.170362e-02           0.2   0
## 9311        -8.528934e-02 -2.130612e-01           0.0   0
## 9312         3.884895e-02  2.609290e-01           0.2   1
## 9313         3.555586e-02  3.832558e-02           0.2   0
## 9314         1.602165e-02 -3.220917e-02          -0.3   0
## 9315        -4.961116e-02 -1.408180e-01           0.0   0
## 9316         4.681403e-02  3.769912e-02          -0.1   1
## 9317         7.483958e-02  2.872410e-01           0.3   1
## 9318        -5.403107e-02 -3.846928e-01          -0.3   0
## 9319         5.478816e-02  4.238170e-01           0.3   1
## 9320         5.342717e-02  9.514687e-02           0.1   0
## 9321         2.996638e-02 -4.534979e-02           0.2   0
## 9322        -4.003510e-02 -2.512516e-01          -0.2   0
## 9323        -1.995684e-02 -9.574468e-02          -0.1   0
## 9324        -5.843750e-02 -1.422688e-01          -0.1   0
## 9325         1.983200e-02  6.037623e-02           0.0   0
## 9326         1.476981e-03 -1.839290e-01           0.1   0
## 9327        -6.767703e-02 -1.773503e-01           0.0   0
## 9328         6.672808e-02  7.669859e-02          -0.1   1
```

```
## 9329          -2.619118e-02 -6.266469e-02          -0.3    0
## 9330          -8.907564e-02 -3.278444e-01          -0.2    0
## 9331           9.676772e-02  5.890397e-02           0.1    1
## 9332          -4.807038e-04 -1.136364e-02           0.4    0
## 9333           1.391868e-02  1.645239e-01           0.4    1
## 9334          -2.764460e-02 -1.995704e-01          -0.2    0
## 9335          -9.843053e-02 -4.813567e-01          -0.4    0
## 9336           2.178640e-02 -1.928001e-01          -0.3    0
## 9337           3.414497e-02  1.628753e-01          -0.1    1
## 9338          -1.853629e-02 -1.753860e-01           0.0    0
## 9339           2.402664e-02 -6.154243e-02          -0.1    0
## 9340          -5.452317e-02 -2.394613e-01           0.2    1
## 9341          -1.087566e-01 -1.542615e-01          -0.2    0
## 9342          -9.563364e-03 -1.786473e-01          -0.2    0
## 9343          -3.308990e-02 -1.073668e-01          -0.1    0
## 9344           2.076549e-02  1.136364e-01           0.0    1
## 9345          -2.568677e-02 -1.273791e-01           0.2    1
## 9346          -2.720315e-02  2.127777e-01           0.1    1
## 9347          -3.016900e-02 -9.386792e-02          -0.1    0
## 9348           2.776525e-02  2.857591e-01           0.1    1
## 9349          -5.453489e-03 -3.514408e-03           0.1    0
## 9350          -3.510050e-02 -6.127451e-02           0.0    0
## 9351          -4.750065e-02 -3.348214e-01          -0.3    0
## 9352          -4.444379e-02 -7.995283e-02          -0.3    0
## 9353           1.241711e-02 -5.980392e-02          -0.2    1
## 9354          -3.708558e-02 -8.531650e-02          -0.1    0
## 9355           1.863581e-02 -1.450980e-01          -0.3    0
## 9356          -6.515459e-02 -2.577436e-01          -0.2    1
## 9357           9.842652e-03  3.275313e-03          -0.1    0
## 9358           1.306773e-02  3.446674e-02           0.1    1
## 9359          -4.136894e-02 -2.122179e-01          -0.1    1
## 9360          -4.233393e-02 -1.489543e-01          -0.5    1
## 9361          -2.621931e-02 -6.666667e-02           0.1    1
## 9362          -1.205998e-05  1.785714e-02          -0.4    0
## 9363          -1.425862e-02 -1.050755e-01           0.1    0
## 9364          -7.812833e-03 -2.594218e-01          -0.4    0
## 9365           2.918904e-02  2.417701e-01           0.0    1
## 9366          -7.363561e-02  7.514755e-02          -0.3    0
## 9367           1.867368e-02 -9.790429e-02          -0.3    0
## 9368          -1.486707e-02 -1.078846e-02           0.0    0
## 9369           4.786233e-02 -3.152585e-03           0.6    0
## 9370           4.878039e-02  4.898115e-01           0.4    0
## 9371          -1.840240e-03 -1.087963e-01           0.0    1
## 9372           2.000262e-02 -5.435944e-02          -0.3    0
## 9373          -9.199271e-02 -2.004545e-01          -0.2    1
## 9374           5.539446e-02  8.812321e-02          -0.3    1
## 9375          -3.472036e-02 -5.253623e-02          -0.1    1
## 9376          -4.503797e-02 -1.081837e-01          -0.2    0
## 9377           2.626780e-02  1.266667e-01           0.1    1
## 9378           1.791832e-02  3.066080e-02          -0.1    0
## 9379          -4.370235e-03  3.358844e-02           0.0    0
## 9380          -8.871174e-02 -8.260718e-02          -0.2    1
## 9381          -3.177217e-02  1.443548e-01           0.0    0
## 9382           1.273823e-01  3.829980e-01           0.5    1
## 9383          -3.949196e-04 -1.913151e-01           0.2    0
## 9384          -1.869884e-02 -1.989539e-01          -0.2    0
## 9385           7.266440e-02  1.653705e-01          -0.1    1
## 9386          -4.284166e-02 -9.712230e-02          -0.1    1
```

```
## 9387          -9.276803e-03  2.705100e-01          0.4    1
## 9388           2.720023e-02 -1.184486e-01          0.0    1
## 9389          -7.561810e-02 -1.898721e-01         -0.4    1
## 9390           2.104083e-02  1.557175e-01          0.1    1
## 9391          -8.924147e-02 -1.808880e-01          0.1    0
## 9392           5.975783e-02  2.272363e-01          0.3    1
## 9393           1.247597e-01  4.083246e-01          0.2    1
## 9394           1.590925e-02 -1.694915e-02         -0.2    0
## 9395          -8.333451e-02 -3.143939e-01         -0.4    0
## 9396           3.277419e-02  2.372881e-01          0.4    1
## 9397          -1.525164e-02 -4.703557e-02          0.1    1
## 9398          -9.206629e-03 -1.040100e-02         -0.1    1
## 9399          -6.830474e-03 -5.560367e-02          0.3    0
## 9400          -5.107058e-02 -1.008403e-01          0.1    0
## 9401          -2.038533e-02  4.957039e-04          0.1    1
## 9402           1.087426e-02  4.626570e-02          0.0    1
## 9403           4.392723e-02  4.173707e-01          0.3    1
## 9404          -2.086737e-02 -2.902555e-01         -0.6    1
## 9405           4.274704e-02 -3.008151e-03          0.0    1
## 9406           6.228459e-02  3.930713e-01          0.4    1
## 9407           9.975254e-03 -1.093586e-01          0.1    0
## 9408          -8.034065e-02 -2.703980e-01         -0.2    1
## 9409           2.763031e-02  1.341848e-01          0.3    1
## 9410           2.437237e-02  5.099813e-02         -0.1    1
## 9411          -5.550762e-02 -1.430031e-01         -0.1    0
## 9412           2.919233e-02  2.594731e-01          0.3    0
## 9413           1.512810e-02  2.389994e-01          0.1    1
## 9414          -8.129066e-02 -3.297792e-01         -0.2    0
## 9415          -6.258680e-02 -2.577309e-01         -0.1    0
## 9416          -4.799632e-02 -5.267656e-02         -0.1    1
## 9417           2.714492e-02  1.602717e-01          0.1    0
## 9418           2.702580e-03  1.085810e-01          0.0    0
## 9419          -2.520607e-02 -2.743938e-02          0.0    0
## 9420          -1.381692e-04 -2.361111e-02          0.0    0
## 9421           3.647960e-03 -1.022556e-01          0.4    0
## 9422          -1.158247e-02  4.313578e-02          0.2    1
## 9423          -3.803508e-02 -3.128911e-01         -0.4    0
## 9424          -2.690507e-02  9.859155e-02          0.2    0
## 9425           3.872749e-03  7.369285e-02          0.1    0
## 9426          -1.091109e-02  1.535682e-02         -0.1    0
## 9427          -6.195903e-02 -5.362319e-02          0.2    0
## 9428           1.062649e-02 -5.481728e-02          0.1    0
## 9429          -4.039342e-03 -2.139891e-02         -0.3    1
## 9430          -3.818073e-03 -1.737517e-01         -0.2    0
## 9431          -3.826622e-02 -1.353281e-01          0.0    0
## 9432          -2.270411e-02 -3.617974e-02         -0.2    1
## 9433          -1.226845e-02  8.771930e-03          0.1    0
## 9434          -2.618936e-02 -2.444832e-01         -0.2    0
## 9435           3.430571e-02  7.446257e-03          0.2    1
## 9436          -1.611640e-02  0.000000e+00          0.4    0
## 9437           1.057155e-02  1.100498e-01         -0.1    1
## 9438           1.781424e-02  1.695479e-01          0.5    1
## 9439           1.558103e-02  1.458716e-01          0.3    1
## 9440          -3.853210e-02 -4.032389e-01         -0.5    0
## 9441           4.130150e-02 -9.372237e-03          0.1    0
## 9442           1.412517e-02  2.689750e-02         -0.1    0
## 9443          -3.098720e-02  4.935681e-02          0.4    1
## 9444          -1.609303e-02 -5.689350e-02          0.0    1
```

```
## 9445          -3.969018e-02  4.075235e-02            0.0   0
## 9446           1.050719e-02  9.183673e-03           -0.1   0
## 9447          -1.587570e-02  1.276463e-01            0.2   1
## 9448          -2.019482e-02 -1.338200e-01            0.0   0
## 9449           3.726741e-02 -7.857143e-02           -0.3   0
## 9450           3.383605e-02  2.389619e-02           -0.3   0
## 9451           4.818305e-02  7.422969e-02            0.4   1
## 9452          -2.421421e-02 -1.280220e-01            0.0   0
## 9453          -5.250868e-03  1.260870e-02           -0.1   1
## 9454           7.729070e-02  4.248366e-02            0.2   0
## 9455          -4.283437e-02 -6.541219e-02           -0.3   1
## 9456          -8.484781e-03 -7.458280e-02            0.1   0
## 9457           3.992730e-02  1.867802e-01            0.1   1
## 9458           1.635427e-02  8.263889e-02            0.2   1
## 9459           2.812786e-02 -2.155172e-02            0.0   1
## 9460           1.369016e-02 -4.513217e-02           -0.2   1
## 9461           2.525974e-02  1.341463e-02           -0.2   1
## 9462          -7.318459e-02 -1.678672e-01           -0.3   0
## 9463          -1.213780e-02  7.086986e-02            0.2   0
## 9464           5.666475e-02  1.645854e-01           -0.2   1
## 9465           3.597274e-03  3.702472e-02            0.2   1
## 9466           2.456425e-02  6.828212e-02            0.1   1
## 9467           3.905248e-02  4.682445e-02            0.2   1
## 9468           2.764777e-02  1.774714e-01           -0.1   1
## 9469          -1.193414e-02 -1.978691e-02            0.1   1
## 9470          -2.986466e-03 -1.042771e-01            0.1   1
## 9471          -8.581730e-02 -5.392620e-01           -0.5   0
## 9472          -1.886852e-02 -7.753358e-02           -0.4   0
## 9473          -3.429409e-02  2.927419e-01            0.3   1
## 9474          -2.474989e-02  1.809309e-02            0.1   1
## 9475           1.588190e-02  2.854885e-01            0.2   1
## 9476           2.664096e-04 -7.692308e-03            0.0   0
## 9477          -8.329928e-02 -4.060606e-01           -0.5   0
## 9478           4.878400e-02  1.404586e-01            0.0   1
## 9479           7.650727e-02  2.838924e-01            0.6   1
## 9480           1.626822e-02 -3.888889e-02           -0.3   1
## 9481           4.496426e-02  1.809220e-01            0.1   0
## 9482           4.116239e-02  3.118033e-01            0.1   1
## 9483          -7.735229e-03 -1.494441e-01            0.0   0
## 9484           5.186342e-02  2.798925e-01            0.2   1
## 9485          -6.701150e-02 -4.062564e-01           -0.5   0
## 9486           1.016229e-02  1.453634e-01            0.2   1
## 9487          -1.823211e-02  1.863636e-01            0.3   1
## 9488           6.766650e-02  1.925806e-01            0.3   1
## 9489          -7.268792e-02 -1.298798e-01           -0.5   0
## 9490          -2.291663e-02  2.334347e-01            0.1   1
## 9491           3.795175e-02  1.665767e-01            0.4   1
## 9492          -4.411604e-02 -1.290413e-02            0.2   0
## 9493           3.356303e-02 -2.648221e-01           -0.2   0
## 9494           1.721582e-02 -6.409245e-02            0.2   1
## 9495          -6.370967e-03  1.322934e-01            0.0   1
## 9496           1.840395e-02  1.191658e-01            0.0   0
## 9497          -6.882710e-02 -4.136916e-01           -0.4   0
## 9498          -6.745108e-02 -2.335137e-01           -0.2   0
## 9499           4.475908e-02  2.905983e-01            0.2   1
## 9500           5.947243e-03 -6.437582e-02           -0.2   1
## 9501           9.280906e-03 -1.210668e-02            0.0   1
## 9502          -8.324100e-02 -2.734694e-01           -0.6   0
```

```
## 9503           2.232749e-02  1.724138e-02          -0.1   0
## 9504           5.656872e-02  9.792690e-02           0.0   1
## 9505          -1.290194e-02  2.954545e-01           0.3   1
## 9506          -4.507831e-02 -8.896693e-02          -0.3   0
## 9507          -3.108340e-02 -1.705572e-01          -0.2   0
## 9508          -4.161144e-02  1.526075e-02           0.1   1
## 9509           1.098402e-02  1.173432e-01           0.1   1
## 9510          -4.509802e-02  4.302580e-02           0.2   0
## 9511          -1.241235e-01 -4.973448e-01          -0.3   0
## 9512           1.151162e-01  2.938466e-01           0.5   1
## 9513          -3.099777e-02 -1.888864e-02          -0.3   1
## 9514           2.182438e-02  1.428988e-01           0.1   0
## 9515           2.176946e-02  2.118168e-01           0.6   1
## 9516           2.031392e-02  3.174603e-02           0.1   1
## 9517           6.241712e-03 -1.047619e-01          -0.2   0
## 9518           2.039391e-02 -3.395455e-01          -0.3   0
## 9519          -4.010240e-02 -3.591760e-01          -0.3   0
## 9520           5.582166e-02  3.143961e-01           0.2   1
## 9521          -1.194314e-01 -2.694805e-01          -0.4   1
## 9522          -9.883296e-03  3.562840e-03           0.0   1
## 9523           1.504915e-02 -4.373241e-02           0.3   1
## 9524          -8.585948e-02 -3.839346e-01          -0.1   0
## 9525          -5.288591e-02 -3.449751e-01          -0.2   0
## 9526           3.205913e-03 -1.427646e-01          -0.2   0
## 9527           4.942150e-02  2.403675e-01           0.2   0
## 9528           4.604913e-03  1.144779e-01           0.0   1
## 9529           3.407453e-02  1.512204e-01           0.3   0
## 9530           3.541891e-02  5.934741e-02           0.0   1
## 9531           4.647890e-02  2.836879e-01           0.2   1
## 9532           6.050639e-02  2.379464e-01           0.4   1
## 9533           1.966522e-02  4.455446e-03           0.2   1
## 9534          -4.926989e-02 -1.298527e-01          -0.1   0
## 9535           7.907937e-03  1.204512e-01           0.0   1
## 9536          -2.926821e-03 -7.340940e-02           0.2   1
## 9537          -5.280691e-02 -4.508995e-01          -0.2   1
## 9538           3.852710e-02  2.344877e-01           0.1   1
## 9539           3.377797e-02  1.497175e-01           0.5   1
## 9540          -9.083824e-02 -1.625310e-01          -0.1   0
## 9541           4.649804e-02 -2.988484e-02          -0.1   1
## 9542          -3.925611e-02 -1.911267e-01           0.0   0
## 9543           1.641240e-02 -2.970297e-02           0.0   1
## 9544           3.463633e-02  3.333469e-01           0.4   1
## 9545          -6.876134e-02 -1.867987e-01          -0.1   0
## 9546          -1.119395e-02 -2.373418e-02           0.2   0
## 9547          -5.770844e-02 -2.212963e-01          -0.4   1
## 9548          -1.522437e-02 -2.854646e-01          -0.4   0
## 9549          -6.267692e-03 -2.192724e-01          -0.1   1
## 9550          -1.154882e-02  1.238462e-01           0.0   1
## 9551           7.482368e-02  4.494568e-01           0.3   1
## 9552          -6.706102e-02 -2.739690e-01          -0.2   0
## 9553           8.739141e-02  2.902985e-01           0.3   1
## 9554           7.979944e-03  5.397234e-02           0.0   1
## 9555           2.565604e-02  4.229618e-02           0.2   0
## 9556          -4.251198e-02 -2.189542e-01           0.1   0
## 9557           9.738353e-02  5.279325e-02           0.1   1
## 9558          -1.829098e-02 -4.352298e-02          -0.2   0
## 9559          -3.058783e-02 -1.280118e-01          -0.2   0
## 9560          -2.556203e-02 -1.985624e-01           0.1   0
```

```
## 9561         4.792069e-02  8.610193e-02            -0.3   0
## 9562        -1.754307e-02  4.725434e-02             0.2   1
## 9563        -9.184459e-02 -3.485222e-01            -0.3   0
## 9564         1.164089e-01  2.526567e-01             0.3   1
## 9565         1.834061e-02  2.539985e-01             0.3   1
## 9566        -1.030141e-01 -4.643223e-01            -0.5   0
## 9567         1.005071e-02  1.789206e-01             0.2   1
## 9568        -2.441828e-02 -1.788151e-01             0.0   0
## 9569         1.863577e-02 -2.009085e-01             0.0   0
## 9570         2.260336e-02  1.272791e-01             0.1   1
## 9571        -1.490670e-04 -1.205232e-01             0.2   0
## 9572         7.056016e-02  2.472938e-01             0.3   1
## 9573        -8.890480e-02 -1.646866e-02             0.0   0
## 9574         6.060237e-02  3.742331e-01             0.4   0
## 9575         2.741435e-02  2.001810e-01             0.2   1
## 9576        -1.131550e-03 -1.902226e-01             0.0   1
## 9577         5.205032e-02  1.363061e-01             0.2   1
## 9578        -7.428475e-02 -1.130820e-01            -0.3   0
## 9579         2.595506e-02  2.797678e-01             0.0   1
## 9580         1.145521e-03 -1.629570e-01            -0.1   0
## 9581        -2.757496e-02  4.784168e-02             0.0   1
## 9582        -5.454704e-02 -1.619944e-02            -0.2   0
## 9583         1.317246e-01  2.270330e-01             0.3   1
## 9584        -3.141612e-02 -1.430346e-01             0.0   1
## 9585         5.858192e-03  1.388554e-01             0.5   1
## 9586         1.300506e-02 -5.908470e-02             0.1   1
## 9587        -2.160751e-02 -1.311005e-01            -0.2   1
## 9588        -3.740930e-02 -1.923497e-01            -0.2   0
## 9589        -6.450829e-03  1.343284e-01            -0.1   1
## 9590         3.627979e-02  1.617647e-01             0.3   1
## 9591         5.818857e-02  4.122807e-02             0.2   0
## 9592         3.552793e-02  1.940959e-01             0.2   1
## 9593         2.931670e-02  7.486388e-03             0.2   0
## 9594         8.959744e-02 -1.479592e-01            -0.3   1
## 9595        -1.993261e-02 -1.134372e-01            -0.1   1
## 9596         2.126529e-02  4.912727e-02             0.3   0
## 9597         4.512712e-02  1.388889e-01            -0.1   0
## 9598        -2.346565e-02  8.092339e-02             0.1   0
## 9599         3.204907e-02 -4.389262e-02             0.3   1
## 9600         1.837519e-02  5.249123e-02             0.3   1
## 9601        -2.602506e-02 -3.341210e-01            -0.2   0
## 9602         1.767230e-02  0.000000e+00             0.2   1
## 9603         1.682374e-02 -1.876751e-01            -0.2   0
## 9604         2.838171e-02 -1.456261e-01            -0.1   0
## 9605         6.895158e-02  1.361656e-01            -0.1   0
## 9606         1.023363e-01  1.746656e-01             0.2   1
## 9607        -1.057757e-03 -3.244375e-02             0.1   0
## 9608         4.617480e-02  1.703914e-01             0.3   0
## 9609        -3.283816e-02 -1.555556e-01             0.0   0
## 9610        -3.197866e-02 -1.612903e-01            -0.4   0
## 9611         5.123872e-02  2.100477e-01             0.4   1
## 9612         5.533169e-03  8.000000e-02            -0.1   1
## 9613         4.769838e-02  1.464646e-02             0.2   1
## 9614         2.486774e-03 -1.347239e-01             0.2   0
## 9615         5.000229e-02  2.939665e-01             0.1   0
## 9616         9.697970e-02 -5.230769e-02            -0.1   1
## 9617        -3.897890e-02  4.728440e-02             0.0   1
## 9618        -5.460835e-04  5.714286e-02             0.0   1
```

```
## 9619         1.243921e-02  5.769231e-02          0.2   1
## 9620         5.160394e-02  2.265936e-01          0.3   1
## 9621        -5.584968e-03  1.544402e-02         -0.3   1
## 9622        -4.336815e-02 -1.343125e-01         -0.4   1
## 9623        -8.321969e-02 -8.444816e-02          0.1   0
## 9624        -4.881987e-03  9.004115e-02         -0.1   1
## 9625         1.306818e-02  8.584049e-03         -0.1   0
## 9626        -6.493672e-02 -1.728661e-01         -0.1   1
## 9627        -3.469225e-02 -3.690476e-02         -0.3   0
## 9628         2.794048e-02  1.443511e-01          0.2   0
## 9629         2.368993e-02 -1.819054e-01          0.0   0
## 9630         1.705436e-02  1.642521e-01          0.1   0
## 9631        -2.104965e-02  7.105943e-03          0.1   0
## 9632         4.409814e-02 -1.300366e-01         -0.1   1
## 9633        -7.432022e-04 -1.275762e-01         -0.3   0
## 9634        -1.110094e-01 -1.205073e-01         -0.2   0
## 9635        -3.084619e-02  7.036953e-02         -0.2   1
## 9636         1.306797e-02  1.253165e-01          0.2   1
## 9637         9.574850e-02 -2.966913e-02          0.0   0
## 9638        -2.677666e-02  1.796469e-01          0.3   1
## 9639        -5.779889e-02 -2.960663e-01         -0.3   0
## 9640        -5.200836e-02 -1.119552e-02         -0.1   0
## 9641        -2.387143e-03  1.273585e-01          0.2   0
## 9642        -4.997230e-02 -7.063668e-02          0.0   0
## 9643         1.509613e-03  6.944444e-02          0.3   1
## 9644         3.212753e-02  1.049532e-01          0.2   0
## 9645        -3.951148e-02 -2.539683e-02          0.0   1
## 9646         1.034016e-03  1.269536e-01         -0.2   1
## 9647         5.543813e-02  1.844543e-01          0.1   0
## 9648         1.685597e-02 -5.051546e-02          0.1   1
## 9649        -3.487864e-02  1.088710e-01          0.4   1
## 9650         3.903977e-02 -1.122004e-01         -0.3   0
## 9651        -1.754343e-02 -1.180413e-01         -0.4   0
## 9652         1.256682e-02 -2.777778e-02          0.0   1
## 9653         3.398458e-02 -2.829926e-01         -0.3   0
## 9654         3.458269e-03 -5.238095e-02          0.1   0
## 9655        -9.759183e-03 -2.812148e-02         -0.1   0
## 9656        -3.533393e-02 -1.305399e-01          0.1   0
## 9657         5.034287e-02 -1.062802e-01         -0.2   0
## 9658        -3.760449e-02 -6.493443e-02          0.1   0
## 9659         8.681089e-02  5.376344e-02          0.0   0
## 9660         5.512778e-02  1.200204e-01          0.1   0
## 9661         6.752754e-02  3.546323e-01          0.2   1
## 9662         4.379357e-02  1.755853e-01          0.4   1
## 9663        -3.388901e-03  6.513003e-02          0.2   0
## 9664         3.381820e-02 -6.630824e-02         -0.1   0
## 9665        -4.200770e-03  2.136937e-01          0.2   0
## 9666         1.099371e-01  1.214912e-01          0.1   1
## 9667        -4.509953e-02 -9.462397e-02         -0.4   1
## 9668        -1.817783e-02  2.099021e-02          0.1   1
## 9669        -2.262588e-02  4.309204e-02          0.1   1
## 9670        -5.388143e-02 -1.171875e-01         -0.2   1
## 9671        -5.184299e-02 -1.764982e-01         -0.4   0
## 9672         2.096563e-02  1.290364e-02          0.2   1
## 9673        -1.142625e-01 -1.068977e-01         -0.2   0
## 9674        -3.326103e-03  2.083333e-02         -0.1   0
## 9675        -9.695550e-02 -2.362637e-01         -0.2   0
## 9676         7.696667e-02  3.982477e-03         -0.1   1
```

357

```
## 9677          8.426483e-02   5.098371e-02          0.0    0
## 9678         -2.717862e-02   2.635949e-02          0.1    0
## 9679          3.181524e-02   2.141446e-01          0.2    1
## 9680          2.805661e-02   2.262443e-03          0.0    1
## 9681         -3.087966e-02   3.684028e-02         -0.2    0
## 9682          1.149700e-02   6.518283e-02          0.0    0
## 9683         -4.328509e-02  -1.382062e-01         -0.2    1
## 9684         -3.895636e-02  -2.524238e-01         -0.3    0
## 9685          6.834735e-02  -1.715310e-02          0.2    0
## 9686          5.525263e-02   1.532591e-01          0.2    0
## 9687          4.449079e-02   1.265013e-03          0.0    1
## 9688          2.320947e-02   1.270124e-01         -0.1    0
## 9689         -3.900278e-03   4.839723e-02         -0.1    0
## 9690          4.521548e-02  -7.518797e-03          0.1    1
## 9691          7.910472e-02   3.462680e-01          0.3    1
## 9692          4.397824e-02   1.486024e-01         -0.1    1
## 9693          3.141867e-02   3.333333e-02          0.1    1
## 9694          2.527003e-02   1.245436e-01         -0.1    0
## 9695         -1.928285e-02  -2.874332e-01          0.1    1
## 9696          1.856789e-02   9.909910e-02          0.3    0
## 9697         -8.472760e-02   3.109656e-02         -0.3    0
## 9698         -2.512700e-02  -8.048433e-02         -0.1    1
## 9699         -2.937660e-02  -3.178123e-02          0.1    1
## 9700         -3.844079e-02  -3.039514e-01         -0.2    0
## 9701         -5.890199e-02  -1.435897e-01         -0.3    0
## 9702          1.611142e-02  -1.438757e-01          0.0    0
## 9703          9.501367e-03   5.137363e-02          0.3    0
## 9704         -2.274844e-02  -1.816060e-01         -0.4    0
## 9705          4.171589e-03  -1.028815e-01          0.0    0
## 9706          3.476560e-02   2.103699e-01          0.2    1
## 9707         -1.102334e-02   4.285714e-02          0.0    1
## 9708         -1.210988e-02  -6.060606e-03          0.1    0
## 9709          4.175106e-02  -7.326733e-02         -0.2    1
## 9710          7.488273e-02   1.479263e-01          0.4    0
## 9711          1.243771e-02   0.000000e+00         -0.1    1
## 9712         -3.935770e-02  -6.161021e-02          0.0    0
## 9713         -3.761141e-03  -1.673835e-01         -0.1    0
## 9714         -4.123192e-02  -1.763762e-01         -0.2    1
## 9715          3.659412e-02   7.027977e-02          0.5    1
## 9716         -8.594114e-03  -3.391053e-02          0.0    0
## 9717         -7.729467e-03   1.880666e-02         -0.2    0
## 9718         -9.957920e-02  -2.977793e-01         -0.4    0
## 9719         -8.991123e-03   3.018293e-01          0.0    1
## 9720          2.707901e-02  -2.843318e-02         -0.1    0
## 9721          2.669346e-03   8.779671e-02          0.3    1
## 9722         -6.691162e-02  -2.497354e-01         -0.3    0
## 9723          9.576162e-03   7.715205e-02          0.0    1
## 9724          7.991573e-03  -7.902468e-02         -0.2    1
## 9725          2.357179e-02   8.698166e-02          0.3    0
## 9726         -1.774844e-02   5.376344e-03          0.1    1
## 9727         -1.642855e-03  -3.293135e-02          0.2    1
## 9728          6.992849e-02   1.688186e-01          0.2    0
## 9729         -1.900257e-02  -2.116904e-01         -0.2    0
## 9730          6.308010e-02   1.668393e-01          0.6    1
## 9731          4.968766e-02   3.011494e-02          0.2    1
## 9732         -1.215856e-02  -2.044858e-01         -0.2    0
## 9733          1.940018e-02   2.904177e-01          0.4    1
## 9734          1.230378e-02  -2.766532e-02          0.2    1
```

```
## 9735        4.876192e-02  1.358364e-01          0.2   0
## 9736        3.370065e-02  1.251080e-01          0.2   1
## 9737       -1.088494e-01 -2.159401e-01          0.0   0
## 9738        1.424058e-02  1.425101e-01          0.0   0
## 9739       -3.365669e-02 -8.931151e-02         -0.2   0
## 9740        8.491013e-03 -6.663924e-02         -0.1   0
## 9741        2.067965e-02  9.604929e-02          0.3   1
## 9742        4.669733e-02  2.395412e-02         -0.1   0
## 9743        2.321011e-02  5.283019e-02         -0.1   1
## 9744       -3.971380e-02 -2.167060e-01          0.1   0
## 9745       -3.819408e-03  2.081557e-02         -0.1   0
## 9746       -2.778623e-02 -7.670522e-02          0.0   1
## 9747       -4.710895e-02 -1.977394e-01         -0.3   0
## 9748        6.319139e-02  1.492537e-01          0.0   1
## 9749        5.529595e-03 -1.210792e-01          0.0   0
## 9750       -3.468372e-02  3.570128e-02         -0.2   0
## 9751       -3.308465e-02 -1.331719e-02         -0.1   1
## 9752       -6.489365e-02 -1.774787e-01          0.0   1
## 9753        1.660103e-02  9.832041e-02          0.1   0
## 9754        1.059351e-01  2.303896e-01          0.0   1
## 9755       -3.662315e-02 -1.513920e-01          0.1   1
## 9756        2.432691e-02  8.008014e-02         -0.2   0
## 9757       -4.948841e-02  7.915058e-02         -0.1   1
## 9758       -4.764231e-02 -1.149932e-01          0.3   1
## 9759        3.495677e-02  1.331250e-01          0.3   0
## 9760        2.994669e-02  1.448864e-01          0.2   0
## 9761        1.987467e-02  9.787234e-02          0.0   1
## 9762        1.489843e-02  2.457958e-01          0.3   1
## 9763       -8.598661e-02 -1.068376e-01         -0.2   1
## 9764       -1.897431e-02 -8.241758e-02         -0.2   0
## 9765       -3.910858e-03  2.389706e-02          0.1   1
## 9766       -6.769142e-02 -2.223345e-01         -0.4   1
## 9767        6.854073e-03 -1.062570e-01         -0.7   1
## 9768       -1.094360e-02 -6.927536e-02         -0.3   0
## 9769       -4.638022e-02 -2.006137e-01         -0.2   1
## 9770       -2.249183e-03  9.472693e-02          0.1   1
## 9771        6.107033e-03 -7.575758e-02          0.0   0
## 9772        6.470706e-02  1.955357e-01          0.2   1
## 9773       -8.393459e-03 -4.824561e-02          0.0   0
## 9774       -5.507812e-02 -1.885315e-01         -0.4   1
## 9775       -3.050549e-03  7.151594e-02          0.3   1
## 9776       -2.241034e-02 -1.441734e-02          0.0   0
## 9777       -3.026866e-02 -1.038961e-01          0.0   0
## 9778        1.255362e-02 -5.768827e-02         -0.3   1
## 9779        3.326444e-02  1.374478e-01          0.1   0
## 9780        2.318424e-02 -6.320050e-02         -0.2   1
## 9781        5.132166e-02  6.866359e-02          0.2   1
## 9782       -2.006544e-02 -2.735369e-02          0.1   0
## 9783       -7.675928e-02 -1.943794e-01         -0.4   0
## 9784        2.023517e-02 -7.017544e-02          0.0   0
## 9785        9.544722e-02 -6.372549e-02         -0.4   0
## 9786        3.459880e-02  8.395368e-02          0.2   0
## 9787       -4.462632e-02 -1.663014e-01         -0.4   0
## 9788        7.770289e-03  1.233333e-01          0.2   1
## 9789        1.617899e-02  6.845238e-02          0.2   1
## 9790       -4.272920e-03 -1.853147e-01          0.1   0
## 9791        1.199245e-03  3.874092e-02          0.5   1
## 9792        2.595766e-02  9.275362e-02          0.4   1
```

```
## 9793           7.058698e-02  3.525190e-01            0.3   1
## 9794          -3.454305e-02 -1.208791e-01           -0.2   0
## 9795          -1.294889e-02  4.419703e-02           -0.1   1
## 9796          -5.249262e-02 -1.002145e-01           -0.3   1
## 9797           4.604250e-02 -6.392157e-02            0.0   0
## 9798          -1.034247e-02 -4.109797e-02            0.1   1
## 9799           3.583863e-02  1.403945e-01            0.2   0
## 9800           6.022433e-02  2.353390e-01           -0.2   1
## 9801           6.483471e-02  2.539736e-01            0.3   1
## 9802           3.836923e-02  1.536938e-01            0.3   0
## 9803          -6.011662e-03  6.462585e-03            0.2   0
## 9804          -4.327461e-02 -1.254915e-01            0.1   1
## 9805          -7.122754e-02 -2.845049e-01           -0.4   1
## 9806          -1.096873e-01 -7.242329e-02           -0.4   0
## 9807           1.558371e-02  1.280802e-01            0.0   1
## 9808           6.776560e-02  1.570048e-01            0.0   1
## 9809          -3.464340e-02 -2.730809e-01           -0.2   1
## 9810          -7.865813e-04  2.380952e-02           -0.1   0
## 9811           1.299878e-02  2.295756e-01            0.0   1
## 9812          -6.540257e-02 -3.009454e-01           -0.2   0
## 9813           8.255927e-02  1.819460e-01            0.1   1
## 9814           4.667096e-02  8.351639e-02            0.2   0
## 9815           7.139385e-02  1.533333e-01            0.3   0
## 9816           9.922269e-02  9.436813e-02           -0.1   1
## 9817          -2.694066e-02  3.563501e-02            0.1   0
## 9818          -3.767514e-02 -1.856396e-02            0.0   0
## 9819           9.041788e-02  1.687036e-01            0.2   0
## 9820           7.210209e-02  2.681302e-01            0.2   1
## 9821          -1.382335e-02 -2.105839e-01           -0.1   1
## 9822           1.251722e-01  2.484432e-01            0.3   1
## 9823          -6.493462e-02 -2.067170e-01           -0.3   0
## 9824           6.345137e-03  1.395164e-01            0.0   1
## 9825           6.601992e-03  1.010281e-02           -0.2   0
## 9826          -4.626790e-02 -2.505327e-01           -0.2   0
## 9827           1.477375e-02  2.069623e-01            0.0   1
## 9828          -8.399179e-02 -4.363400e-02            0.0   0
## 9829           1.612902e-02  2.358491e-02           -0.1   1
## 9830           1.519138e-02  5.376766e-02           -0.3   1
## 9831          -5.129767e-02 -7.029296e-02            0.2   1
## 9832          -1.997382e-02 -2.209661e-02            0.1   1
## 9833          -1.139261e-02  6.620553e-02           -0.1   1
## 9834          -1.263271e-03  1.502646e-01            0.2   1
## 9835           2.033726e-02 -4.964315e-02            0.3   1
## 9836          -1.482666e-02  4.123607e-02            0.4   0
## 9837           7.027795e-02  1.261059e-01            0.2   1
## 9838           4.177370e-02 -1.056965e-02           -0.2   1
## 9839           1.174485e-02 -3.548644e-02           -0.1   1
## 9840          -1.666620e-02  5.253725e-02            0.0   0
## 9841          -5.340279e-02 -1.090671e-01           -0.3   1
## 9842           7.405484e-02  1.522089e-01            0.3   0
## 9843           6.712884e-03  1.140817e-01           -0.1   0
## 9844           6.538418e-02  2.811355e-01            0.3   0
## 9845          -4.551839e-02 -2.096705e-01           -0.2   0
## 9846           4.295980e-02  2.040556e-01            0.1   1
## 9847          -4.888969e-02  1.264862e-01           -0.1   1
## 9848          -1.461838e-02 -2.380952e-01           -0.1   0
## 9849          -5.894154e-02 -2.249950e-01           -0.4   0
## 9850           9.633140e-02  5.148524e-02            0.0   1
```

```
## 9851          2.570769e-02 -1.678069e-02              0.1   1
## 9852          6.904398e-02  1.731410e-01              0.4   1
## 9853          6.833097e-02  1.650943e-01              0.2   1
## 9854         -2.796391e-02 -6.006833e-02             -0.4   1
## 9855          6.185026e-02  1.991959e-01              0.2   1
## 9856         -6.271258e-02 -2.602492e-01             -0.1   0
## 9857          6.254988e-02  3.835376e-01              0.3   1
## 9858         -1.702832e-02  8.064516e-03             -0.1   0
## 9859         -6.030598e-02 -2.679537e-01             -0.1   0
## 9860         -1.154861e-01 -5.353720e-01             -0.7   0
## 9861          9.610939e-03  1.811640e-01              0.2   0
## 9862          1.815120e-02 -1.073055e-01             -0.1   1
## 9863         -1.662583e-02 -1.433858e-02             -0.3   0
## 9864         -8.393565e-02 -1.430818e-01             -0.5   0
## 9865         -2.137613e-02 -1.447002e-01              0.1   1
## 9866          2.203990e-02  2.604990e-01              0.2   1
## 9867         -5.431401e-02 -1.524253e-01             -0.2   0
## 9868         -1.524841e-02  8.506457e-02              0.0   0
## 9869          1.951586e-02 -1.344201e-02             -0.2   0
## 9870          5.384238e-02  1.035184e-01              0.2   0
## 9871         -5.658136e-02 -5.833333e-02             -0.2   0
## 9872         -1.636305e-02 -9.869381e-02              0.1   0
## 9873          5.082094e-02  2.563786e-01              0.2   1
## 9874          3.645287e-02  1.287984e-01              0.1   0
## 9875          1.179882e-02 -1.050138e-01              0.3   0
## 9876         -8.485831e-02 -1.721478e-01             -0.2   0
## 9877          4.862251e-03 -7.982229e-02              0.0   0
## 9878         -4.330044e-02 -1.052907e-01             -0.5   1
## 9879         -4.713635e-03  3.184569e-02             -0.2   1
## 9880         -2.868953e-02 -1.076769e-01              0.0   0
## 9881          7.851290e-02  1.030103e-01              0.0   0
## 9882         -3.858361e-02 -1.058297e-01             -0.2   0
## 9883         -2.971110e-03  1.024643e-01              0.1   1
## 9884         -1.080555e-02  1.787281e-01              0.0   0
## 9885          6.046528e-02  1.269350e-01              0.0   1
## 9886         -1.539234e-02 -1.632850e-01             -0.3   1
## 9887          4.014301e-02 -7.108082e-02              0.2   1
## 9888          2.440313e-02  7.870370e-02              0.2   1
## 9889         -4.668618e-02  8.689306e-02              0.0   1
## 9890          1.052399e-02 -1.615946e-02             -0.3   0
## 9891          1.393786e-02  3.972107e-02              0.1   0
## 9892         -4.710178e-02 -4.930410e-02              0.1   1
## 9893          2.869158e-02  7.013575e-02              0.0   1
## 9894          1.450368e-02  7.545311e-02              0.2   1
## 9895          1.394103e-04  1.718886e-01              0.3   1
## 9896         -1.455141e-02  7.273539e-02             -0.1   0
## 9897         -6.786784e-02 -2.798532e-01             -0.3   0
## 9898         -2.783521e-02  2.581593e-03              0.1   1
## 9899         -1.604402e-02 -8.400000e-02             -0.1   0
## 9900          6.171498e-03 -1.689157e-01             -0.2   0
## 9901          2.653737e-02  2.517908e-01              0.1   1
## 9902          1.702497e-02  6.716374e-02              0.2   1
## 9903         -1.309934e-02 -1.900312e-01             -0.2   0
## 9904          1.767042e-03  7.999513e-02              0.4   0
## 9905          1.043448e-01  3.034142e-01              0.5   1
## 9906          1.457282e-02  1.844187e-01              0.1   0
## 9907          3.193766e-02  3.524701e-02              0.1   0
## 9908          6.105368e-02  2.583165e-01              0.1   0
```

```
## 9909          7.234471e-02  3.200000e-01            0.1   1
## 9910          1.084833e-01  2.142431e-01            0.1   1
## 9911         -2.095234e-02 -9.206223e-02            0.2   0
## 9912          6.445913e-02  3.683738e-01            0.2   1
## 9913         -4.107169e-02 -2.925505e-01           -0.2   1
## 9914          2.229466e-02  1.688054e-01            0.2   1
## 9915          1.941386e-03  1.419616e-02            0.0   1
## 9916         -2.565399e-02  8.340016e-03            0.1   1
## 9917          7.065623e-02  2.592593e-01            0.2   1
## 9918         -3.966397e-02  7.548713e-02            0.1   1
## 9919          4.731591e-02 -1.257273e-01            0.0   0
## 9920         -7.200279e-02 -1.589790e-01           -0.2   0
## 9921          1.163093e-02  1.832982e-01            0.0   1
## 9922          2.895729e-02  1.568376e-01            0.1   0
## 9923         -1.333475e-01 -1.402028e-01           -0.3   0
## 9924         -5.109988e-02 -4.570171e-02           -0.1   0
## 9925          2.345238e-02  2.337823e-01            0.2   1
## 9926         -3.719855e-03  1.527051e-01           -0.1   1
## 9927          5.613045e-02  5.859780e-02            0.0   1
## 9928          1.690775e-02 -2.052987e-03            0.2   1
## 9929          3.929908e-02  4.681430e-02           -0.1   1
## 9930         -1.288005e-02  3.298319e-02            0.1   1
## 9931          6.251096e-02  1.220588e-01            0.0   1
## 9932          3.635026e-02 -2.729045e-03           -0.2   1
## 9933         -1.527906e-02  1.062500e-01           -0.1   0
## 9934         -5.771444e-03  7.632013e-03            0.1   0
## 9935          4.997824e-02  4.043340e-02            0.0   1
## 9936          4.406996e-02  7.211740e-02            0.3   1
## 9937         -2.805929e-02 -1.327145e-01            0.3   1
## 9938          6.124548e-02  7.109557e-02            0.1   1
## 9939          3.203126e-02  2.553191e-01            0.2   0
## 9940         -1.139168e-01 -2.825042e-01           -0.2   0
## 9941         -1.234507e-01 -4.472727e-01           -0.5   0
## 9942         -3.074651e-02 -4.993852e-02           -0.1   1
## 9943         -5.979838e-02  5.076923e-02            0.6   1
## 9944          1.557062e-04  4.124088e-02            0.3   1
## 9945          1.951042e-03 -9.738073e-02           -0.2   1
## 9946          2.332557e-02 -1.817122e-02            0.0   0
## 9947          1.716199e-02  8.421640e-02            0.2   1
## 9948         -1.233678e-02  1.382869e-01            0.0   1
## 9949          6.960381e-02  6.813598e-02            0.0   1
## 9950          3.531615e-02  2.449324e-01            0.2   1
## 9951          1.867065e-02 -4.976266e-02            0.1   0
## 9952         -3.951400e-02 -6.870301e-02           -0.1   1
## 9953          3.822559e-02 -1.010233e-01            0.2   0
## 9954         -1.151174e-03 -1.353529e-01           -0.1   0
## 9955         -2.630062e-02 -1.720524e-01            0.1   0
## 9956          7.640298e-02  1.950830e-01            0.0   1
## 9957         -1.188531e-01 -2.394598e-01           -0.3   0
## 9958          3.839102e-02  2.022724e-02           -0.1   1
## 9959          2.915850e-02 -2.432995e-02            0.0   0
## 9960          1.964412e-02 -4.223027e-02            0.1   1
## 9961         -2.904071e-02 -8.598061e-02           -0.1   0
## 9962         -1.542325e-02 -6.344019e-02            0.3   1
## 9963         -1.199233e-02 -7.463768e-02            0.3   0
## 9964         -7.378669e-03 -2.422834e-03            0.0   1
## 9965          6.665984e-03 -5.533597e-02            0.1   1
## 9966          5.624044e-02  1.006433e-01           -0.2   1
```

362

```
## 9967        -6.710398e-02 -8.225108e-02          -0.2   0
## 9968        -7.929117e-03 -8.484643e-05           0.1   1
## 9969         1.452803e-02  4.497751e-02           0.0   0
## 9970         4.057260e-02  7.609595e-02           0.0   0
## 9971         1.544383e-01  5.947426e-01           0.5   1
## 9972        -6.159590e-02 -1.319669e-01           0.1   1
## 9973        -1.066191e-01 -2.973295e-01          -0.2   0
## 9974         1.986009e-02 -3.628949e-02           0.2   0
## 9975         4.751824e-02  1.399619e-01           0.1   1
## 9976        -3.880550e-02  4.429429e-02           0.2   0
## 9977         6.207024e-02  1.141934e-01           0.1   1
## 9978        -7.534216e-04 -8.466819e-02          -0.2   0
## 9979        -2.986085e-02 -7.752294e-02          -0.3   1
## 9980         3.325859e-02  2.651223e-01           0.2   1
## 9981         1.661591e-02  1.309524e-01           0.3   1
## 9982        -1.755220e-02 -1.957895e-01          -0.2   1
## 9983        -4.137565e-02 -3.220992e-01          -0.2   0
## 9984        -3.072209e-02 -2.702276e-01          -0.3   0
## 9985         2.471193e-02 -2.297071e-02          -0.1   0
## 9986        -1.081807e-02 -6.400683e-02          -0.3   1
## 9987        -4.772307e-02 -8.550833e-02          -0.1   0
## 9988        -3.310178e-03  9.126984e-02           0.0   0
## 9989         7.514092e-03 -8.006653e-02           0.0   0
## 9990        -4.073121e-02 -6.827094e-02          -0.2   1
## 9991        -1.416109e-02 -1.403509e-01          -0.2   0
## 9992        -4.384650e-02 -2.437418e-01          -0.5   0
## 9993        -6.850723e-02 -5.501441e-02           0.2   1
## 9994        -1.021494e-02  4.002430e-02           0.3   0
## 9995         2.802929e-02 -1.207878e-02           0.3   1
## 9996         2.926201e-02 -9.042904e-02          -0.3   0
## 9997        -1.815076e-02 -2.857143e-02          -0.2   1
## 9998        -6.985042e-02 -1.478084e-01           0.2   0
## 9999        -7.523696e-03  1.884921e-02           0.3   1
##  [ reached 'max' / getOption("max.print") -- omitted 13102 rows ]
```

Još je samo potrebno normalizirati podatke:

```r
normalize <- function(x) {
  return ((x - min(x)) / (max(x) - min(x)))
}
playerDifference <- as.data.frame(lapply(playerDifference, normalize))

playerDifference
```

```
##          height        age      rank    avgAce      avgDf
## 1     0.43902439 0.56683168 0.4767442 0.43460288 0.402192963
## 2     0.56097561 0.47029703 0.4926262 0.55421944 0.491567105
## 3     0.86585366 0.52475248 0.4832672 0.86082091 0.462357019
## 4     0.56097561 0.51485149 0.4912082 0.50127841 0.638198827
## 5     0.59756098 0.35148515 0.4778786 0.63723781 0.702722598
## 6     0.52439024 0.61881188 0.4875213 0.61494470 0.442157010
## 7     0.50000000 0.43316832 0.4821327 0.43020132 0.431839020
## 8     0.52439024 0.36386139 0.4866704 0.59328488 0.616556759
## 9     0.40243902 0.41336634 0.4844016 0.51285289 0.524264962
## 10    0.59756098 0.52970297 0.4835508 0.62740640 0.488716523
## 11    0.80487805 0.20297030 0.4688032 0.63184793 0.504319269
## 12    0.21951220 0.34405941 0.4914918 0.19539485 0.502198100
## 13    0.52439024 0.50495050 0.4960295 0.39897118 0.258945209
## 14    0.43902439 0.35643564 0.4702212 0.54431592 0.478342638
```

363

```
## 15   0.52439024 0.38366337 0.4914918 0.58604299 0.733128810
## 16   0.65853659 0.32673267 0.4895065 0.63458950 0.641641884
## 17   0.31707317 0.44554455 0.4710720 0.46810367 0.427188658
## 18   0.53658537 0.47524752 0.4795803 0.61346733 0.803649983
## 19   0.47560976 0.50000000 0.4844016 0.36515600 0.392601592
## 20   0.68292683 0.28712871 0.4790130 0.60404754 0.494784989
## 21   0.53658537 0.51732673 0.4784458 0.41968647 0.471948391
## 22   0.43902439 0.55940594 0.4756098 0.42045500 0.254087242
## 23   0.37804878 0.34405941 0.4798639 0.52272819 0.516216259
## 24   0.47560976 0.56930693 0.4812819 0.43535086 0.314725127
## 25   0.43902439 0.64356436 0.4957459 0.30222994 0.340866316
## 26   0.50000000 0.44059406 0.4807147 0.44634038 0.523102371
## 27   0.59756098 0.50990099 0.4838344 0.73162688 0.799798902
## 28   0.74390244 0.53465347 0.4739081 0.83257755 0.416798006
## 29   0.43902439 0.51485149 0.4951787 0.57254729 0.321153569
## 30   0.40243902 0.41336634 0.4855360 0.51315856 0.495926819
## 31   0.28048780 0.23267327 0.4963131 0.24966641 0.613865967
## 32   0.56097561 0.34653465 0.4815655 0.50083010 0.679761437
## 33   0.62195122 0.42574257 0.4846852 0.53241540 0.532984390
## 34   0.56097561 0.50247525 0.4696540 0.42255098 0.474439656
## 35   0.62195122 0.28217822 0.4730573 0.54640802 0.538555136
## 36   0.40243902 0.60148515 0.4974475 0.30805794 0.619415725
## 37   0.35365854 0.59653465 0.4937606 0.45049741 0.420503763
## 38   0.19512195 0.30693069 0.4883721 0.19642941 0.450634232
## 39   0.62195122 0.52227723 0.4954623 0.63583775 0.568887919
## 40   0.64634146 0.28960396 0.4963131 0.68497235 0.613421118
## 41   0.65853659 0.46534653 0.4818491 0.63660319 0.392020296
## 42   0.69512195 0.35396040 0.4744753 0.57059990 0.451826633
## 43   0.37804878 0.48267327 0.4914918 0.33857733 0.638690693
## 44   0.41463415 0.47772277 0.4787294 0.42665561 0.468315296
## 45   0.50000000 0.33168317 0.4557572 0.39254663 0.763993352
## 46   0.52439024 0.56188119 0.4761770 0.53256555 0.356262991
## 47   0.29268293 0.69059406 0.5034033 0.31355989 0.549551304
## 48   0.47560976 0.32920792 0.4818491 0.56257425 0.447243343
## 49   0.34146341 0.57673267 0.4906410 0.26143398 0.473546953
## 50   0.43902439 0.53960396 0.4929098 0.56000668 0.561467857
## 51   0.59756098 0.42079208 0.4889393 0.53957667 0.122548435
## 52   0.40243902 0.40841584 0.4858196 0.40652545 0.464241039
## 53   0.47560976 0.56930693 0.4815655 0.44439843 0.310689955
## 54   0.62195122 0.37871287 0.4770278 0.43742664 0.788235279
## 55   0.53658537 0.39108911 0.4880885 0.56897282 0.457561334
## 56   0.43902439 0.49752475 0.4909246 0.29532074 0.603406598
## 57   0.58536585 0.42574257 0.4750425 0.49919990 0.539523962
## 58   0.43902439 0.45049505 0.4863868 0.58113355 0.424326897
## 59   0.53658537 0.47772277 0.4824163 0.49231226 0.414400163
## 60   0.75609756 0.49504950 0.4900737 0.83046787 0.553757146
## 61   0.56097561 0.67079208 0.4920590 0.75860684 0.110673404
## 62   0.40243902 0.47524752 0.4895065 0.24526580 0.641769641
## 63   0.53658537 0.53465347 0.4861032 0.54790238 0.487934010
## 64   0.36585366 0.45049505 0.4790130 0.37181242 0.429063894
## 65   0.59756098 0.59158416 0.4849688 0.76891208 0.386414949
## 66   0.43902439 0.51732673 0.4855360 0.58687063 0.318352304
## 67   0.40243902 0.28960396 0.4787294 0.23504788 0.454820942
## 68   0.56097561 0.55198020 0.4903573 0.50586044 0.566899759
## 69   0.62195122 0.39603960 0.4809983 0.60534484 0.630047918
## 70   0.50000000 0.60148515 0.4968803 0.55842036 0.452273783
## 71   0.59756098 0.65099010 0.4821327 0.47479379 0.507362685
## 72   0.52439024 0.56188119 0.4980147 0.51114117 0.347260563
```

```
## 73    0.68292683 0.26237624 0.4878049 0.59721619 0.272128155
## 74    0.41463415 0.46287129 0.4807147 0.62970391 0.085802272
## 75    0.43902439 0.47524752 0.4767442 0.46595696 0.453042322
## 76    0.53658537 0.54207921 0.4693704 0.50734375 0.579146071
## 77    0.65853659 0.50247525 0.4685196 0.64870749 0.721324046
## 78    0.58536585 0.61138614 0.5005672 0.39744846 0.467029739
## 79    0.65853659 0.25990099 0.4699376 0.68329120 0.428787220
## 80    0.52439024 0.33415842 0.4574589 0.52198923 0.474583383
## 81    0.56097561 0.49752475 0.4900737 0.31284276 0.368195576
## 82    0.46341463 0.39356436 0.5102099 0.30703906 0.269948297
## 83    0.56097561 0.47277228 0.4900737 0.56071116 0.434268003
## 84    0.62195122 0.34653465 0.4659671 0.62840064 0.501987301
## 85    0.50000000 0.51237624 0.4940442 0.25137908 0.630891116
## 86    0.64634146 0.46782178 0.4897901 0.46851749 0.466046008
## 87    0.09756098 0.63861386 0.4985820 0.13626426 0.533841428
## 88    0.68292683 0.51485149 0.4988656 0.70618936 0.668694470
## 89    0.78048780 0.62623762 0.4665343 0.95666431 0.391178948
## 90    0.53658537 0.59405941 0.5076574 0.61335525 0.711732674
## 91    0.53658537 0.49009901 0.4761770 0.73248431 0.261983435
## 92    0.59756098 0.36881188 0.4951787 0.56796413 0.420394770
## 93    0.31707317 0.41089109 0.4926262 0.34334613 0.503462897
## 94    0.62195122 0.45049505 0.4787294 0.65953091 0.328077821
## 95    0.46341463 0.66584158 0.4909246 0.48471239 0.411812015
## 96    0.25609756 0.62376238 0.5014180 0.42876470 0.168621272
## 97    0.43902439 0.47772277 0.5022689 0.44543212 0.561011125
## 98    0.40243902 0.47772277 0.4960295 0.44791625 0.445790105
## 99    0.56097561 0.40594059 0.4807147 0.52404181 0.767261666
## 100   0.68292683 0.38613861 0.4792967 0.57031774 0.470079942
## 101   0.50000000 0.47524752 0.4662507 0.60157117 0.604400662
## 102   0.52439024 0.37623762 0.4895065 0.33178524 0.276271584
## 103   0.40243902 0.47524752 0.4982984 0.45286122 0.401611668
## 104   0.37804878 0.50495050 0.4917754 0.30607258 0.514881196
## 105   0.21951220 0.59653465 0.4832672 0.10171858 0.330349461
## 106   0.09756098 0.39108911 0.4818491 0.00000000 0.386888071
## 107   0.43902439 0.54950495 0.4671015 0.64617135 0.344993512
## 108   0.47560976 0.49009901 0.4900737 0.60523399 0.422147040
## 109   0.43902439 0.50247525 0.4824163 0.56189351 0.260622022
## 110   0.74390244 0.29702970 0.4775950 0.65287923 0.515545533
## 111   0.63414634 0.36633663 0.4906410 0.49957956 0.518054281
## 112   0.37804878 0.58910891 0.4861032 0.44941860 0.796362422
## 113   0.43902439 0.45544554 0.4608622 0.38864119 0.511912438
## 114   0.37804878 0.56683168 0.4863868 0.49754785 0.616675333
## 115   0.56097561 0.33910891 0.4841180 0.81760729 0.578138574
## 116   0.62195122 0.36633663 0.4815655 0.54104591 0.494798423
## 117   0.62195122 0.43811881 0.4764606 0.64340604 0.328945818
## 118   0.56097561 0.41089109 0.4835508 0.45510275 0.583847723
## 119   0.59756098 0.42326733 0.4875213 0.53101613 0.114936235
## 120   0.37804878 0.51980198 0.4875213 0.33980206 0.423991534
## 121   0.46341463 0.44059406 0.4835508 0.24305337 0.406752141
## 122   0.43902439 0.39356436 0.4937606 0.40413270 0.536778956
## 123   0.53658537 0.44059406 0.4889393 0.45162303 0.376034677
## 124   0.53658537 0.55940594 0.4863868 0.75102269 0.423270378
## 125   0.40243902 0.54207921 0.4818491 0.63925027 0.393623869
## 126   0.50000000 0.36881188 0.4710720 0.45070119 0.221991441
## 127   0.43902439 0.51237624 0.4858196 0.59945772 0.566720274
## 128   0.46341463 0.57920792 0.4844016 0.29787496 0.437693493
## 129   0.29268293 0.60396040 0.4798639 0.34424275 0.376034677
## 130   0.34146341 0.47029703 0.4895065 0.40647003 0.606135365
```

```
## 131   0.29268293 0.57673267 0.4960295 0.49701949 0.249348648
## 132   0.58536585 0.63118812 0.4912082 0.47470601 0.438233267
## 133   0.65853659 0.46782178 0.4773114 0.51529821 0.384754106
## 134   0.56097561 0.48762376 0.4875213 0.41957440 0.543883676
## 135   0.47560976 0.53960396 0.4719229 0.48656578 0.540977200
## 136   0.56097561 0.35148515 0.4974475 0.40724594 0.179069016
## 137   0.52439024 0.44554455 0.4764606 0.56986567 0.764928515
## 138   0.65853659 0.59158416 0.4764606 0.45263706 0.300102988
## 139   0.59756098 0.41336634 0.4804311 0.45164815 0.601243838
## 140   0.43902439 0.33415842 0.4892229 0.45881148 0.673367189
## 141   0.56097561 0.55940594 0.4994328 0.40040926 0.345662001
## 142   0.52439024 0.60643564 0.4931934 0.43840990 0.565981443
## 143   0.28048780 0.47524752 0.4892229 0.51410690 0.541629294
## 144   0.28048780 0.51485149 0.5073738 0.33495638 0.594504802
## 145   0.31707317 0.37623762 0.4795803 0.53351713 0.585780051
## 146   0.40243902 0.66831683 0.5014180 0.25304198 0.449512434
## 147   0.56097561 0.48762376 0.4844016 0.43119726 0.543009968
## 148   0.56097561 0.29702970 0.4809983 0.69212489 0.496471783
## 149   0.68292683 0.55940594 0.4906410 0.46964072 0.365986574
## 150   0.59756098 0.39356436 0.4920590 0.51940284 0.365758208
## 151   0.46341463 0.56188119 0.4863868 0.37772139 0.611430752
## 152   0.76829268 0.39108911 0.4824163 0.58376697 0.575240082
## 153   0.59756098 0.35643564 0.4844016 0.56023943 0.476854463
## 154   0.40243902 0.56683168 0.4909246 0.61869596 0.644593075
## 155   0.50000000 0.44801980 0.4781622 0.58419849 0.514519718
## 156   0.35365854 0.29207921 0.4826999 0.33137575 0.538589737
## 157   0.59756098 0.53217822 0.5019853 0.59811280 0.587044847
## 158   0.53658537 0.48762376 0.4832672 0.36974331 0.577545700
## 159   0.37804878 0.57178218 0.4858196 0.47617320 0.441804081
## 160   0.47560976 0.36138614 0.4784458 0.65764640 0.065725605
## 161   0.41463415 0.61881188 0.4645491 0.43911730 0.322712019
## 162   0.50000000 0.53465347 0.4977311 0.51203779 0.404009510
## 163   0.59756098 0.65594059 0.4795803 0.50079714 0.334072428
## 164   0.37804878 0.52722772 0.4807147 0.37061719 0.654329770
## 165   0.40243902 0.62376238 0.5036869 0.53194791 0.123555932
## 166   0.41463415 0.55198020 0.4784458 0.37965526 0.398226478
## 167   0.65853659 0.37376238 0.4892229 0.62829883 0.452765648
## 168   0.65853659 0.33910891 0.4736245 0.60739081 0.413288120
## 169   0.68292683 0.38861386 0.4892229 0.49325158 0.544264286
## 170   0.36585366 0.45049505 0.5022689 0.47094295 0.606494017
## 171   0.53658537 0.42079208 0.4784458 0.53052064 0.734449080
## 172   0.53658537 0.49504950 0.4705048 0.63397739 0.369640430
## 173   0.47560976 0.53712871 0.4790130 0.44256898 0.479202369
## 174   0.64634146 0.38118812 0.4770278 0.57151857 0.460815549
## 175   0.56097561 0.47524752 0.4784458 0.61365412 0.503919629
## 176   0.56097561 0.50000000 0.4784458 0.32623132 0.353208530
## 177   0.40243902 0.37623762 0.4775950 0.45620858 0.429746357
## 178   0.40243902 0.52475248 0.4642655 0.37126928 0.503919629
## 179   0.56097561 0.41336634 0.4801475 0.45245027 0.798321443
## 180   0.78048780 0.27475248 0.4787294 0.61396872 0.475524121
## 181   0.59756098 0.42079208 0.4861032 0.52808719 0.136250394
## 182   0.28048780 0.39356436 0.4861032 0.19644403 0.415390576
## 183   0.41463415 0.47772277 0.4807147 0.44118765 0.501725524
## 184   0.43902439 0.59653465 0.4869541 0.22063801 0.368883216
## 185   0.40243902 0.32178218 0.4716393 0.45554432 0.335890341
## 186   0.40243902 0.60148515 0.5275099 0.47489906 0.143317720
## 187   0.65853659 0.39603960 0.4795803 0.56577063 0.762429923
## 188   0.53658537 0.42821782 0.4897901 0.59534824 0.587844128
```

```
## 189   0.52439024 0.31188119 0.4815655 0.55114649 0.507872436
## 190   0.50000000 0.37871287 0.4824163 0.43668140 0.465408819
## 191   0.37804878 0.57178218 0.4892229 0.46934333 0.465109326
## 192   0.46341463 0.40346535 0.4826999 0.41989113 0.115747100
## 193   0.46341463 0.62623762 0.4940442 0.41240696 0.368656699
## 194   0.50000000 0.56435644 0.4705048 0.51641974 0.616900695
## 195   0.58536585 0.24504950 0.4770278 0.64148654 0.557205025
## 196   0.34146341 0.62128713 0.4804311 0.44261419 0.328534553
## 197   0.43902439 0.70049505 0.4912082 0.46003413 0.414400163
## 198   0.50000000 0.53960396 0.4767442 0.46555539 0.464691761
## 199   0.53658537 0.50742574 0.4787294 0.58376697 0.447969962
## 200   0.50000000 0.50247525 0.4659671 0.51410690 0.435673333
## 201   0.40243902 0.41584158 0.4923426 0.48491519 0.569061026
## 202   0.40243902 0.45049505 0.4863868 0.49233487 0.631535914
## 203   0.43902439 0.44306931 0.4895065 0.48307024 0.544498507
## 204   0.46341463 0.62376238 0.4798639 0.41917412 0.658066668
## 205   0.62195122 0.62623762 0.4869541 0.43372732 0.326483347
## 206   0.31707317 0.56683168 0.4636982 0.45693047 0.332504607
## 207   0.47560976 0.50495050 0.4858196 0.39229253 0.524637832
## 208   0.53658537 0.39108911 0.4645491 0.58908286 0.548148614
## 209   0.53658537 0.53217822 0.4656835 0.50688225 0.648589480
## 210   0.62195122 0.32178218 0.5000000 0.65722040 0.582618060
## 211   0.59756098 0.39108911 0.4781622 0.60593601 0.322280838
## 212   0.52439024 0.57673267 0.4926262 0.36230313 0.857201806
## 213   0.40243902 0.50742574 0.5068066 0.21745910 0.443174277
## 214   0.50000000 0.34653465 0.4991492 0.36407607 0.238457088
## 215   0.46341463 0.59158416 0.4980147 0.31442862 0.414652567
## 216   0.50000000 0.35643564 0.4826999 0.59441427 0.406007713
## 217   0.43902439 0.52970297 0.4903573 0.49616771 0.235840800
## 218   0.62195122 0.25495050 0.4997164 0.65709012 0.487578774
## 219   0.56097561 0.47772277 0.4784458 0.59273311 0.526756227
## 220   0.43902439 0.53960396 0.4929098 0.54655745 0.544949384
## 221   0.34146341 0.60891089 0.4807147 0.37476608 0.334380722
## 222   0.47560976 0.58663366 0.4753261 0.38902422 0.639885222
## 223   0.43902439 0.55445545 0.4690868 0.60073132 0.562957426
## 224   0.37804878 0.42574257 0.4997164 0.33615721 0.460244634
## 225   0.34146341 0.50742574 0.4875213 0.39509999 0.128961932
## 226   0.50000000 0.56930693 0.4685196 0.54385083 0.630693280
## 227   0.43902439 0.48762376 0.4855360 0.41861722 0.664818358
## 228   0.41463415 0.54702970 0.4832672 0.41432716 0.411639010
## 229   0.65853659 0.32425743 0.4815655 0.67203632 0.442669468
## 230   0.41463415 0.38613861 0.4826999 0.60565252 0.206441793
## 231   0.62195122 0.46039604 0.4835508 0.56932675 0.579725116
## 232   0.52439024 0.41336634 0.4929098 0.47387268 0.540413114
## 233   0.43902439 0.49504950 0.4866704 0.51562425 0.617950377
## 234   0.50000000 0.45049505 0.4773114 0.47746245 0.432245546
## 235   0.42682927 0.45297030 0.5090754 0.40853914 0.538811316
## 236   0.50000000 0.37128713 0.4849688 0.51338798 0.461792821
## 237   0.50000000 0.40099010 0.4889393 0.47098227 0.341539394
## 238   0.56097561 0.27475248 0.5022689 0.56685937 0.471948391
## 239   0.37804878 0.61386139 0.4702212 0.40708112 0.161451252
## 240   0.40243902 0.41831683 0.4900737 0.48540306 0.540592519
## 241   0.35365854 0.38861386 0.4929098 0.46886234 0.567862104
## 242   0.47560976 0.37376238 0.4815655 0.53434014 0.579952068
## 243   0.46341463 0.50000000 0.4906410 0.53564864 0.443174277
## 244   0.71951220 0.46782178 0.4775950 0.82478554 0.557966245
## 245   0.50000000 0.45297030 0.4753261 0.51238264 0.431369512
## 246   0.40243902 0.53217822 0.4829836 0.50197623 0.374732681
```

```
## 247    0.43902439 0.64356436 0.4741917 0.45607246 0.328077821
## 248    0.62195122 0.62871287 0.4798639 0.64373620 0.474496823
## 249    0.62195122 0.29455446 0.4784458 0.44443304 0.384666912
## 250    0.41463415 0.53465347 0.4926262 0.55740649 0.582249161
## 251    0.65853659 0.53465347 0.4895065 0.53588572 0.344664403
## 252    0.65853659 0.45792079 0.4818491 0.53445316 0.463067491
## 253    0.37804878 0.53465347 0.5104935 0.34750899 0.682159279
## 254    0.56097561 0.44801980 0.4929098 0.43126450 0.499679964
## 255    0.52439024 0.65346535 0.4804311 0.64648205 0.658133835
## 256    0.65853659 0.48514851 0.5000000 0.50663882 0.458712986
## 257    0.50000000 0.38861386 0.4733409 0.62052817 0.439177872
## 258    0.43902439 0.42079208 0.5178673 0.43712408 0.169324088
## 259    0.59756098 0.41089109 0.4880885 0.45633900 0.568346517
## 260    0.71951220 0.53217822 0.4835508 0.77708253 0.471786920
## 261    0.50000000 0.46039604 0.4727737 0.43134246 0.633327020
## 262    0.65853659 0.58910891 0.4954623 0.54641951 0.462725918
## 263    0.37804878 0.45297030 0.4906410 0.42820903 0.423082878
## 264    0.50000000 0.40346535 0.5039705 0.32150716 0.344063440
## 265    0.31707317 0.59405941 0.4886557 0.32991292 0.337069731
## 266    0.50000000 0.47772277 0.4946115 0.44663210 0.336827844
## 267    0.50000000 0.45297030 0.4926262 0.57678036 0.230295658
## 268    0.52439024 0.29702970 0.4866704 0.47345774 0.431573285
## 269    0.52439024 0.43811881 0.4787294 0.42441861 0.388823173
## 270    0.65853659 0.39356436 0.4832672 0.73315928 0.565769441
## 271    0.50000000 0.55445545 0.4872377 0.55471816 0.422444539
## 272    0.43902439 0.52227723 0.4747589 0.33466079 0.325442829
## 273    0.65853659 0.42821782 0.4829836 0.60319911 0.787546823
## 274    0.62195122 0.36386139 0.4812819 0.53593279 0.494060518
## 275    0.43902439 0.67326733 0.4946115 0.41365649 0.504446627
## 276    0.50000000 0.52227723 0.4829836 0.43909515 0.557285153
## 277    0.58536585 0.49504950 0.4909246 0.36371210 0.516708124
## 278    0.56097561 0.35396040 0.4931934 0.56536277 0.557765924
## 279    0.65853659 0.28217822 0.4707884 0.63806197 0.230387927
## 280    0.25609756 0.48514851 0.4705048 0.53750165 0.439337728
## 281    0.47560976 0.37376238 0.4747589 0.55997219 0.431369512
## 282    0.56097561 0.45297030 0.4679524 0.64917908 0.522085105
## 283    0.52439024 0.41584158 0.4994328 0.32665978 0.420877453
## 284    0.68292683 0.39108911 0.4781622 0.49819445 0.524648233
## 285    0.43902439 0.50990099 0.4844016 0.46915621 0.435961442
## 286    0.36585366 0.50495050 0.4934770 0.52510275 0.490217670
## 287    0.53658537 0.49504950 0.4622802 0.57249524 0.534063939
## 288    0.68292683 0.38613861 0.4795803 0.55037580 0.453757859
## 289    0.47560976 0.50990099 0.4767442 0.40770444 0.498106676
## 290    0.68292683 0.31188119 0.4841180 0.61257559 0.471531375
## 291    0.64634146 0.22524752 0.4849688 0.57838728 0.625410332
## 292    0.37804878 0.66584158 0.4883721 0.49647889 0.393900957
## 293    0.53658537 0.39851485 0.4727737 0.40978296 0.595764275
## 294    0.52439024 0.54702970 0.4807147 0.43469535 0.456231438
## 295    0.70731707 0.33415842 0.4929098 0.62795726 0.563294785
## 296    0.62195122 0.46782178 0.4631310 0.53557392 0.588643409
## 297    0.35365854 0.61386139 0.4889393 0.53155234 0.404808791
## 298    0.34146341 0.46039604 0.4997164 0.32219816 0.620987244
## 299    0.37804878 0.58415842 0.4668179 0.51749544 0.449707530
## 300    0.21951220 0.36138614 0.4900737 0.08691800 0.580711788
## 301    0.37804878 0.47524752 0.4761770 0.53295880 0.525233787
## 302    0.34146341 0.58910891 0.4923426 0.43093491 0.463228962
## 303    0.56097561 0.52475248 0.4741917 0.44017276 0.444336867
## 304    0.62195122 0.40099010 0.4648327 0.53957667 0.333558604
```

```
## 305    0.64634146 0.37871287 0.4619966 0.59123875 0.434648613
## 306    0.65853659 0.36138614 0.4773114 0.69832987 0.425299448
## 307    0.43902439 0.59405941 0.4787294 0.49209991 0.402957825
## 308    0.37804878 0.48762376 0.4807147 0.45124164 0.451666242
## 309    0.75609756 0.49752475 0.4668179 0.78915996 0.436154505
## 310    0.37804878 0.48514851 0.4946115 0.41518452 0.562006320
## 311    0.78048780 0.46782178 0.4846852 0.79656872 0.504809263
## 312    0.62195122 0.51237624 0.4588769 0.52217343 0.527203030
## 313    0.59756098 0.52970297 0.4849688 0.64152964 0.447662547
## 314    0.53658537 0.36138614 0.5133296 0.46996587 0.460881424
## 315    0.46341463 0.60148515 0.4784458 0.48456877 0.461485077
## 316    0.58536585 0.44059406 0.5034033 0.43753618 0.513595135
## 317    0.47560976 0.59900990 0.4685196 0.44008446 0.489532572
## 318    0.31707317 0.66089109 0.4849688 0.34566595 0.422215354
## 319    0.47560976 0.48514851 0.4792967 0.66428762 0.365654405
## 320    0.37804878 0.31188119 0.4849688 0.55838887 0.546385773
## 321    0.65853659 0.51732673 0.4832672 0.51459954 0.261851685
## 322    0.34146341 0.58910891 0.4761770 0.37814332 0.263069637
## 323    0.52439024 0.56188119 0.4960295 0.43787936 0.514471712
## 324    0.78048780 0.68811881 0.4747589 0.88953208 0.281789029
## 325    0.25609756 0.59158416 0.4662507 0.47081232 0.491399424
## 326    0.31707317 0.55693069 0.4815655 0.34979008 0.509326529
## 327    0.50000000 0.53960396 0.4946115 0.48676660 0.666560971
## 328    0.37804878 0.48019802 0.4838344 0.52162658 0.418662994
## 329    0.46341463 0.41336634 0.5014180 0.50867548 0.435980748
## 330    0.41463415 0.38861386 0.4954623 0.37515786 0.647095172
## 331    0.40243902 0.62376238 0.4982984 0.28382956 0.262489767
## 332    0.62195122 0.36633663 0.4937606 0.47079351 0.364045463
## 333    0.58536585 0.46534653 0.4724901 0.48155289 0.394418139
## 334    0.43902439 0.52227723 0.4744753 0.49137082 0.381070147
## 335    0.58536585 0.31435644 0.4912082 0.65085936 0.524289874
## 336    0.40243902 0.55198020 0.5053885 0.31388294 0.336257753
## 337    0.50000000 0.65841584 0.4985820 0.34168099 0.440447318
## 338    0.40243902 0.54950495 0.4807147 0.37342600 0.354605307
## 339    0.68292683 0.40841584 0.4736245 0.62440386 0.445133804
## 340    0.25609756 0.35148515 0.4775950 0.12659535 0.689570794
## 341    0.56097561 0.45544554 0.5045377 0.57828765 0.464843671
## 342    0.53658537 0.37376238 0.4849688 0.57569743 0.471948391
## 343    0.37804878 0.44306931 0.4931934 0.49390844 0.377879172
## 344    0.50000000 0.51485149 0.4934770 0.32098988 0.533923406
## 345    0.40243902 0.52970297 0.4920590 0.41303658 0.209517814
## 346    0.71951220 0.53217822 0.4739081 0.85203089 0.621813568
## 347    0.52439024 0.55693069 0.4790130 0.54115313 0.394128290
## 348    0.52439024 0.29455446 0.4858196 0.48587364 0.418203638
## 349    0.40243902 0.32178218 0.4756098 0.58863987 0.578982535
## 350    0.21951220 0.62871287 0.4855360 0.33986712 0.368778048
## 351    0.43902439 0.52970297 0.4912082 0.50459739 0.276493975
## 352    0.52439024 0.50247525 0.4829836 0.37997911 0.557406549
## 353    0.56097561 0.38613861 0.4792967 0.68918272 0.673095369
## 354    0.24390244 0.44059406 0.4807147 0.13259722 0.357364044
## 355    0.43902439 0.64356436 0.4758934 0.44014559 0.346969916
## 356    0.68292683 0.33910891 0.4829836 0.66627730 0.568379857
## 357    0.50000000 0.36386139 0.4866704 0.57365686 0.403706335
## 358    0.59756098 0.46039604 0.4895065 0.68715785 0.790262027
## 359    0.62195122 0.48267327 0.4821327 0.64215413 0.490297101
## 360    0.47560976 0.48762376 0.4943279 0.64382175 0.507669920
## 361    0.50000000 0.34900990 0.4858196 0.39033553 0.457373268
## 362    0.81707317 0.36386139 0.4812819 0.80478249 0.481539762
```

```
## 363   0.62195122 0.47772277 0.4858196 0.75817299 0.502888298
## 364   0.50000000 0.43316832 0.4863868 0.51596048 0.376034677
## 365   0.53658537 0.35643564 0.4821327 0.57911147 0.405085466
## 366   0.68292683 0.26732673 0.4710720 0.66676130 0.521134911
## 367   0.58536585 0.60891089 0.4775950 0.54515979 0.356851935
## 368   0.34146341 0.51980198 0.5036869 0.28466098 0.436842718
## 369   0.71951220 0.36633663 0.4671015 0.77037490 0.586702298
## 370   0.65853659 0.38118812 0.4826999 0.70243315 0.500991229
## 371   0.46341463 0.36881188 0.4892229 0.39422872 0.402165968
## 372   0.64634146 0.38366337 0.4809983 0.47511142 0.731925035
## 373   0.47560976 0.61633663 0.4809983 0.55343150 0.448502816
## 374   0.56097561 0.41831683 0.4855360 0.56229540 0.550193789
## 375   0.46341463 0.37871287 0.4906410 0.46199039 0.454945505
## 376   0.40243902 0.57920792 0.4861032 0.40892710 0.451395452
## 377   0.62195122 0.43069307 0.4892229 0.49808320 0.434280460
## 378   0.43902439 0.63118812 0.4821327 0.53145853 0.409395969
## 379   0.80487805 0.37871287 0.4702212 0.69266829 0.545437833
## 380   0.56097561 0.52722772 0.4883721 0.47563523 0.512232150
## 381   0.37804878 0.54950495 0.4818491 0.46868499 0.360576057
## 382   0.40243902 0.58910891 0.4994328 0.35841246 0.295535668
## 383   0.56097561 0.49257426 0.4832672 0.53936008 0.397484471
## 384   0.52439024 0.44801980 0.4826999 0.55505580 0.781165863
## 385   0.53658537 0.39603960 0.4900737 0.57490714 0.523885856
## 386   0.47560976 0.36633663 0.4761770 0.59853709 0.281120065
## 387   0.68292683 0.41089109 0.4866704 0.57717646 0.497907943
## 388   0.50000000 0.45049505 0.4764606 0.51353215 0.438773934
## 389   0.53658537 0.42079208 0.4863868 0.60144308 0.432669442
## 390   0.34146341 0.47029703 0.4866704 0.53445316 0.436798195
## 391   0.59756098 0.40099010 0.4688032 0.51588042 0.660692877
## 392   0.29268293 0.60148515 0.4829836 0.38628859 0.362797717
## 393   0.40243902 0.51485149 0.4824163 0.39325099 0.490755001
## 394   0.43902439 0.59405941 0.4988656 0.31210435 0.114036612
## 395   0.56097561 0.42079208 0.4937606 0.48501065 0.533749252
## 396   0.56097561 0.41336634 0.5014180 0.54043059 0.250147929
## 397   0.46341463 0.34653465 0.4866704 0.60115586 0.658285807
## 398   0.50000000 0.55445545 0.4710720 0.48994956 0.600394999
## 399   0.46341463 0.40346535 0.5019853 0.51540852 0.346287003
## 400   0.47560976 0.51732673 0.5051049 0.45357851 0.560737086
## 401   0.56097561 0.48267327 0.4929098 0.42569496 0.476308105
## 402   0.46341463 0.50742574 0.4997164 0.39416703 0.402209960
## 403   0.21951220 0.66089109 0.5073738 0.36531902 0.437070677
## 404   0.43902439 0.43564356 0.4835508 0.48521469 0.533741540
## 405   0.56097561 0.30198020 0.4824163 0.60979772 0.409799533
## 406   0.56097561 0.44554455 0.4736245 0.56034677 0.405139528
## 407   0.65853659 0.37376238 0.4895065 0.60009816 0.438835323
## 408   0.53658537 0.44059406 0.4679524 0.75233053 0.404808791
## 409   0.59756098 0.56435644 0.4756098 0.59595038 0.408005915
## 410   0.50000000 0.48514851 0.4909246 0.60108793 0.249602964
## 411   0.46341463 0.32178218 0.4957459 0.57007482 0.648813908
## 412   0.46341463 0.31683168 0.4909246 0.55696598 0.668293493
## 413   0.71951220 0.38613861 0.4614294 0.54341930 0.402867681
## 414   0.46341463 0.44801980 0.5051049 0.54066049 0.400803603
## 415   0.41463415 0.53712871 0.4895065 0.43794577 0.495870399
## 416   0.58536585 0.36633663 0.4702212 0.50673961 0.434454848
## 417   0.58536585 0.19801980 0.4795803 0.57850954 0.553039076
## 418   0.34146341 0.35891089 0.5028361 0.22252562 0.593102555
## 419   0.56097561 0.50247525 0.4696540 0.41111221 0.518478613
## 420   0.47560976 0.27722772 0.4798639 0.42349709 0.454963671
```

```
## 421   0.40243902 0.61633663 0.4815655 0.47329122 0.387452977
## 422   0.37804878 0.59653465 0.4798639 0.55937905 0.572977502
## 423   0.50000000 0.41336634 0.5048213 0.40409917 0.594299859
## 424   0.41463415 0.49009901 0.4710720 0.58184565 0.306839784
## 425   0.68292683 0.48514851 0.4634146 0.67360540 0.540938957
## 426   0.34146341 0.54455446 0.5062394 0.39958422 0.473963385
## 427   0.53658537 0.33415842 0.4906410 0.52732099 0.438523915
## 428   0.56097561 0.38613861 0.4583097 0.53396561 0.269944443
## 429   0.50000000 0.27722772 0.4710720 0.67165491 0.506554621
## 430   0.58536585 0.44801980 0.5014180 0.41289782 0.499352309
## 431   0.24390244 0.55940594 0.4991492 0.18735458 0.549454422
## 432   0.52439024 0.33415842 0.5042541 0.58825004 0.466619851
## 433   0.43902439 0.59900990 0.4824163 0.38010734 0.625410332
## 434   0.62195122 0.50990099 0.5059558 0.62583889 0.542741846
## 435   0.59756098 0.40099010 0.4688032 0.51952107 0.646437569
## 436   0.64634146 0.45792079 0.4940442 0.46258283 0.485465466
## 437   0.46341463 0.26237624 0.4974475 0.45293200 0.298630628
## 438   0.43902439 0.40099010 0.5082246 0.38202865 0.519905248
## 439   0.40243902 0.60396040 0.4741917 0.46877613 0.600632623
## 440   0.53658537 0.49504950 0.4971639 0.57214086 0.528537482
## 441   0.43902439 0.41584158 0.5045377 0.41365751 0.650215603
## 442   0.62195122 0.43316832 0.4724901 0.53922582 0.417378850
## 443   0.71951220 0.37623762 0.4775950 0.63354354 0.498866110
## 444   0.41463415 0.51485149 0.4926262 0.45586352 0.445305693
## 445   0.62195122 0.47772277 0.4858196 0.75737619 0.490128114
## 446   0.37804878 0.55940594 0.4775950 0.41507531 0.473546953
## 447   0.56097561 0.38118812 0.4965967 0.45563498 0.357922892
## 448   0.40243902 0.44554455 0.4807147 0.40898574 0.384050722
## 449   0.50000000 0.53217822 0.4625638 0.36285267 0.347260563
## 450   0.37804878 0.32425743 0.4756098 0.46191111 0.829780322
## 451   0.37804878 0.47029703 0.4926262 0.49955079 0.296106583
## 452   0.53658537 0.54702970 0.4753261 0.52667069 0.389594204
## 453   0.56097561 0.68564356 0.4815655 0.69399783 0.374019683
## 454   0.56097561 0.33663366 0.4764606 0.44241384 0.348005839
## 455   0.47560976 0.37871287 0.4917754 0.47566085 0.562609687
## 456   0.56097561 0.36633663 0.4866704 0.46667680 0.441610093
## 457   0.42682927 0.42821782 0.4815655 0.53695546 0.513762712
## 458   0.43902439 0.53712871 0.4863868 0.34338147 0.450340244
## 459   0.43902439 0.58168317 0.5121951 0.58671821 0.200443428
## 460   0.43902439 0.42326733 0.4886557 0.58262092 0.234808345
## 461   0.46341463 0.50742574 0.4775950 0.39917894 0.332765333
## 462   0.59756098 0.39356436 0.4869541 0.55318738 0.604346523
## 463   0.65853659 0.38613861 0.4861032 0.58650400 0.476155133
## 464   0.43902439 0.61633663 0.4920590 0.56066595 0.201133200
## 465   0.47560976 0.48762376 0.4906410 0.65411674 0.523594237
## 466   0.46341463 0.49504950 0.4824163 0.55473671 0.524935687
## 467   0.52439024 0.34158416 0.4781622 0.41920614 0.370553894
## 468   0.59756098 0.51237624 0.4866704 0.68126899 0.629579895
## 469   0.50000000 0.46782178 0.4673851 0.59127611 0.386824970
## 470   0.29268293 0.48267327 0.4832672 0.43469297 0.375782273
## 471   0.35365854 0.56683168 0.4991492 0.47002498 0.329448017
## 472   0.31707317 0.59405941 0.4858196 0.49302167 0.723326640
## 473   0.46341463 0.44801980 0.4909246 0.52759169 0.371996205
## 474   0.43902439 0.53465347 0.4855360 0.38847650 0.542683421
## 475   0.47560976 0.43564356 0.4809983 0.48883951 0.488299585
## 476   0.40243902 0.39108911 0.4892229 0.36409636 0.339496120
## 477   0.46341463 0.43069307 0.4707884 0.49393768 0.500927668
## 478   0.46341463 0.46287129 0.4895065 0.53513241 0.778097213
```

```
## 479   0.56097561 0.64603960 0.4767442 0.58192655 0.385626049
## 480   0.53658537 0.47029703 0.4838344 0.60047660 0.318873979
## 481   0.62195122 0.30693069 0.5087918 0.48573709 0.505340573
## 482   0.41463415 0.46534653 0.4679524 0.55081465 0.260741978
## 483   0.50000000 0.41089109 0.5036869 0.40056007 0.578028074
## 484   0.58536585 0.51980198 0.4926262 0.48205723 0.561867497
## 485   0.40243902 0.51485149 0.4858196 0.49588004 0.469839177
## 486   0.65853659 0.28217822 0.4886557 0.59006926 0.355415546
## 487   0.62195122 0.42326733 0.4948951 0.43802632 0.466716734
## 488   0.41463415 0.62376238 0.4486670 0.54355561 0.438735027
## 489   0.50000000 0.47029703 0.4719229 0.40693462 0.473724571
## 490   0.58536585 0.52227723 0.4758934 0.55121374 0.376942951
## 491   0.56097561 0.27227723 0.4537720 0.45926561 0.353198079
## 492   0.50000000 0.55940594 0.4756098 0.50691428 0.498210479
## 493   0.37804878 0.58910891 0.4727737 0.54695857 0.298371752
## 494   0.71951220 0.35891089 0.5014180 0.58081109 0.391844630
## 495   0.64634146 0.31435644 0.5116279 0.41101794 0.527159226
## 496   0.50000000 0.40346535 0.4963131 0.49458331 0.571871037
## 497   0.47560976 0.46039604 0.4909246 0.58149451 0.435401959
## 498   0.50000000 0.61386139 0.4943279 0.63145057 0.599068480
## 499   0.56097561 0.45792079 0.4767442 0.55008740 0.372273355
## 500   0.65853659 0.21039604 0.4676687 0.70104417 0.623492058
## 501   0.59756098 0.52475248 0.4988656 0.59878471 0.495986319
## 502   0.31707317 0.59158416 0.4985820 0.38019315 0.382222659
## 503   0.47560976 0.69059406 0.4974475 0.56669230 0.541173071
## 504   0.43902439 0.60148515 0.5116279 0.51508583 0.441722481
## 505   0.53658537 0.46039604 0.5053885 0.58748731 0.462556595
## 506   0.46341463 0.46039604 0.4872377 0.38252677 0.493262549
## 507   0.47560976 0.60148515 0.5096427 0.52692939 0.435584583
## 508   0.59756098 0.25990099 0.4753261 0.46218466 0.418462673
## 509   0.65853659 0.53217822 0.4693704 0.78471415 0.302688897
## 510   0.59756098 0.43069307 0.4679524 0.69584381 0.496925920
## 511   0.53658537 0.29950495 0.4651163 0.42069516 0.771678745
## 512   0.46341463 0.35148515 0.4767442 0.32133250 0.309704739
## 513   0.47560976 0.42821782 0.4974475 0.50918492 0.404736130
## 514   0.56097561 0.69059406 0.4906410 0.48816688 0.476930921
## 515   0.34146341 0.64603960 0.4997164 0.38545689 0.393473534
## 516   0.50000000 0.46039604 0.5019853 0.49223806 0.397466431
## 517   0.28048780 0.75247525 0.5019853 0.26454576 0.472888721
## 518   0.37804878 0.61138614 0.5042541 0.46263530 0.393425625
## 519   0.58536585 0.54702970 0.4951787 0.39211557 0.706936989
## 520   0.56097561 0.40099010 0.4861032 0.47361144 0.487248912
## 521   0.43902439 0.47772277 0.4781622 0.43781090 0.616732425
## 522   0.43902439 0.37871287 0.4889393 0.51974867 0.547857244
## 523   0.59756098 0.37623762 0.4900737 0.59316007 0.573190644
## 524   0.46341463 0.40594059 0.4940442 0.54671107 0.494082325
## 525   0.53658537 0.31435644 0.4841180 0.49545042 0.261851685
## 526   0.50000000 0.51732673 0.5056721 0.52362974 0.387452977
## 527   0.84146341 0.44059406 0.4948951 0.65484406 0.414690810
## 528   0.41463415 0.47029703 0.4807147 0.63002174 0.467058672
## 529   0.50000000 0.62128713 0.5079410 0.56933962 0.468751267
## 530   0.46341463 0.64108911 0.4920590 0.38464378 0.470616256
## 531   0.59756098 0.40346535 0.4861032 0.50759782 0.538350192
## 532   0.37804878 0.50247525 0.4889393 0.42662344 0.542841136
## 533   0.59756098 0.58415842 0.4710720 0.76319180 0.421811677
## 534   0.56097561 0.18811881 0.4872377 0.61649654 0.555118324
## 535   0.43902439 0.42326733 0.4900737 0.42179410 0.341156963
## 536   0.56097561 0.44059406 0.5011344 0.44868118 0.422264864
```

```
## 537   0.46341463 0.40841584 0.4963131 0.48852656 0.604806646
## 538   0.43902439 0.44306931 0.4764606 0.52476028 0.336861498
## 539   0.62195122 0.54950495 0.4790130 0.58376697 0.505165884
## 540   0.58536585 0.30693069 0.4750425 0.56257842 0.526651097
## 541   0.37804878 0.36881188 0.4971639 0.48599389 0.594723569
## 542   0.50000000 0.61138614 0.5025525 0.47959449 0.486671987
## 543   0.43902439 0.46782178 0.4937606 0.33088622 0.478889515
## 544   0.50000000 0.38366337 0.4824163 0.41905357 0.526675627
## 545   0.43902439 0.42079208 0.4812819 0.45049741 0.344271045
## 546   0.50000000 0.59900990 0.4951787 0.38113204 0.523102371
## 547   0.58536585 0.47277228 0.4906410 0.35254382 0.660086829
## 548   0.46341463 0.34900990 0.4747589 0.50809268 0.470882683
## 549   0.53658537 0.49257426 0.4832672 0.54280798 0.282300821
## 550   0.40243902 0.60396040 0.4863868 0.51209601 0.445374894
## 551   0.46341463 0.50247525 0.4844016 0.54924730 0.475744975
## 552   0.52439024 0.39356436 0.4861032 0.44356903 0.508049884
## 553   0.65853659 0.43069307 0.4909246 0.49096734 0.460480447
## 554   0.50000000 0.38613861 0.4946115 0.56392095 0.274813486
## 555   0.62195122 0.67821782 0.4849688 0.52096336 0.517301255
## 556   0.52439024 0.54207921 0.4866704 0.66311444 0.437260643
## 557   0.50000000 0.41336634 0.5017016 0.39073863 0.583086503
## 558   0.58536585 0.30445545 0.4736245 0.57736257 0.510199693
## 559   0.46341463 0.40099010 0.4719229 0.44606764 0.487811043
## 560   0.34146341 0.57673267 0.5028361 0.36763008 0.315665458
## 561   0.36585366 0.42326733 0.5045377 0.45599937 0.637399546
## 562   0.43902439 0.50495050 0.4719229 0.51406240 0.574823583
## 563   0.19512195 0.59158416 0.4597277 0.41352815 0.452071536
## 564   0.25609756 0.62623762 0.5036869 0.44799388 0.201230897
## 565   0.47560976 0.42574257 0.4982984 0.65410141 0.771057082
## 566   0.59756098 0.44306931 0.5036869 0.50655403 0.669770425
## 567   0.56097561 0.48514851 0.4761770 0.55599950 0.630574917
## 568   0.47560976 0.51237624 0.4775950 0.46832782 0.363318844
## 569   0.59756098 0.34405941 0.4719229 0.57290413 0.460881424
## 570   0.40243902 0.50990099 0.4960295 0.45359772 0.600404257
## 571   0.37804878 0.41089109 0.4787294 0.58500113 0.601939682
## 572   0.43902439 0.50742574 0.4608622 0.58914665 0.308438346
## 573   0.37804878 0.38118812 0.5053885 0.43695424 0.483004168
## 574   0.41463415 0.43069307 0.4707884 0.60839924 0.428383188
## 575   0.56097561 0.64356436 0.4903573 0.39710808 0.563017977
## 576   0.47560976 0.47772277 0.4722065 0.37958334 0.383300868
## 577   0.56097561 0.42574257 0.4778786 0.62934488 0.553208620
## 578   0.40243902 0.28960396 0.4931934 0.48494156 0.504859959
## 579   0.37804878 0.55940594 0.5096427 0.30950632 0.368656699
## 580   0.62195122 0.42079208 0.4665343 0.58837813 0.576083280
## 581   0.64634146 0.44059406 0.4846852 0.53819332 0.508121563
## 582   0.65853659 0.29455446 0.4659671 0.60991823 0.527898057
## 583   0.52439024 0.40841584 0.4988656 0.50765967 0.448317476
## 584   0.53658537 0.43069307 0.4750425 0.56340905 0.556432773
## 585   0.56097561 0.46287129 0.4846852 0.45308795 0.646259009
## 586   0.59756098 0.53465347 0.4707884 0.54425988 0.407006814
## 587   0.56097561 0.44801980 0.4838344 0.61281728 0.490797521
## 588   0.50000000 0.37376238 0.4753261 0.62411463 0.388823173
## 589   0.62195122 0.42574257 0.4844016 0.56109258 0.511876914
## 590   0.62195122 0.35148515 0.4926262 0.55653353 0.507643751
## 591   0.71951220 0.36138614 0.4688032 0.46065271 0.500020697
## 592   0.40243902 0.72524752 0.4895065 0.40764942 0.598794277
## 593   0.28048780 0.61881188 0.4588769 0.38875326 0.447969962
## 594   0.50000000 0.61881188 0.5119115 0.61946674 0.506505538
```

```
## 595   0.56097561 0.29455446 0.4997164 0.48211425 0.606060783
## 596   0.52439024 0.42326733 0.4812819 0.37212648 0.512263770
## 597   0.62195122 0.42821782 0.4991492 0.51508861 0.641852683
## 598   0.47560976 0.41336634 0.4767442 0.58662686 0.340480456
## 599   0.43902439 0.69306931 0.4912082 0.50435252 0.341779780
## 600   0.56097561 0.36386139 0.4963131 0.44815399 0.559669475
## 601   0.40243902 0.38118812 0.4946115 0.46564388 0.451282772
## 602   0.43902439 0.61138614 0.5031197 0.37612987 0.447455805
## 603   0.46341463 0.42574257 0.5082246 0.36380898 0.430959624
## 604   0.53658537 0.48514851 0.4795803 0.49042297 0.575854914
## 605   0.56097561 0.49504950 0.5002836 0.56792677 0.540153698
## 606   0.65853659 0.55198020 0.4767442 0.75791713 0.594299859
## 607   0.56097561 0.51237624 0.4886557 0.42414384 0.647503718
## 608   0.43902439 0.48762376 0.4427113 0.43208315 0.253848947
## 609   0.35365854 0.55940594 0.5090754 0.40727740 0.511629948
## 610   0.56097561 0.46039604 0.4892229 0.61757342 0.519759924
## 611   0.59756098 0.49257426 0.4690868 0.55223766 0.573132089
## 612   0.47560976 0.31930693 0.5022689 0.61437554 0.601236468
## 613   0.65853659 0.30693069 0.4773114 0.50157979 0.733897608
## 614   0.34146341 0.60396040 0.4869541 0.39611831 0.261851685
## 615   0.62195122 0.46534653 0.4787294 0.49880205 0.413334455
## 616   0.62195122 0.49752475 0.4773114 0.68855376 0.364729532
## 617   0.58536585 0.60396040 0.4739081 0.59299395 0.341738259
## 618   0.65853659 0.28960396 0.4733409 0.60694918 0.550193789
## 619   0.43902439 0.38366337 0.4903573 0.43278368 0.449436637
## 620   0.34146341 0.58910891 0.4727737 0.37724985 0.275878903
## 621   0.59756098 0.30198020 0.4804311 0.63108830 0.270174357
## 622   0.50000000 0.52227723 0.4965967 0.62254078 0.574175573
## 623   0.47560976 0.47277228 0.4892229 0.45730286 0.564537752
## 624   0.50000000 0.51237624 0.4611458 0.41851879 0.425478568
## 625   0.59756098 0.31188119 0.4787294 0.45797192 0.734645395
## 626   0.59756098 0.49257426 0.4639818 0.71401205 0.295265235
## 627   0.53658537 0.38366337 0.4767442 0.62015897 0.407065585
## 628   0.59756098 0.45792079 0.4900737 0.56578711 0.518336367
## 629   0.71951220 0.40841584 0.4838344 0.68679733 0.622478144
## 630   0.50000000 0.35891089 0.4668179 0.43460288 0.251056202
## 631   0.63414634 0.36633663 0.4883721 0.51101891 0.560372339
## 632   0.40243902 0.56188119 0.5076574 0.55508741 0.266381973
## 633   0.52439024 0.41831683 0.4835508 0.45939370 0.458703164
## 634   0.40243902 0.42326733 0.4838344 0.32580373 0.294224446
## 635   0.59756098 0.50990099 0.4880885 0.61516421 0.213430084
## 636   0.43902439 0.49009901 0.4844016 0.33880026 0.370341734
## 637   0.36585366 0.45049505 0.4818491 0.36479577 0.365895461
## 638   0.68292683 0.37871287 0.4818491 0.70371378 0.338901939
## 639   0.59756098 0.54702970 0.4773114 0.67925643 0.502321067
## 640   0.74390244 0.44554455 0.4892229 0.73562716 0.438971065
## 641   0.53658537 0.43069307 0.4744753 0.60147511 0.580650599
## 642   0.50000000 0.51980198 0.4821327 0.50584688 0.460276352
## 643   0.59756098 0.45792079 0.4872377 0.44383500 0.365562709
## 644   0.65853659 0.47029703 0.4770278 0.56384653 0.303056852
## 645   0.50000000 0.25495050 0.4858196 0.50249525 0.482224860
## 646   0.56097561 0.56435644 0.4815655 0.53282295 0.544610295
## 647   0.35365854 0.46782178 0.4792967 0.54218343 0.463480333
## 648   0.40243902 0.44801980 0.4931934 0.44719974 0.562244301
## 649   0.47560976 0.48762376 0.4750425 0.54469466 0.204258178
## 650   0.62195122 0.38366337 0.4875213 0.60572820 0.474273572
## 651   0.41463415 0.30445545 0.4846852 0.54730371 0.580670457
## 652   0.46341463 0.42574257 0.5141804 0.45202438 0.538874849
```

```
## 653    0.58536585 0.36386139 0.5085082 0.49313203 0.502092701
## 654    0.52439024 0.40346535 0.4872377 0.54676873 0.604978139
## 655    0.62195122 0.42079208 0.4761770 0.48872581 0.296905864
## 656    0.53658537 0.34158416 0.5062394 0.51085475 0.775231105
## 657    0.53658537 0.41089109 0.4897901 0.55846329 0.445031894
## 658    0.52439024 0.45792079 0.4900737 0.52915222 0.391264220
## 659    0.52439024 0.55940594 0.4965967 0.43999943 0.465002915
## 660    0.52439024 0.56930693 0.4974475 0.38966924 0.526437577
## 661    0.43902439 0.59653465 0.4790130 0.40956000 0.403304263
## 662    0.43902439 0.59653465 0.4722065 0.46813860 0.339911331
## 663    0.31707317 0.43811881 0.4784458 0.55779606 0.498682960
## 664    0.46341463 0.55445545 0.5042541 0.43399155 0.380394392
## 665    0.58536585 0.31188119 0.5235394 0.44634222 0.494184026
## 666    0.46341463 0.47772277 0.5053885 0.34526745 0.368860644
## 667    0.50000000 0.56435644 0.4790130 0.49309853 0.532447810
## 668    0.43902439 0.55940594 0.4705048 0.46281547 0.356949806
## 669    0.53658537 0.39603960 0.4741917 0.66261632 0.674683652
## 670    0.52439024 0.43811881 0.5000000 0.52036350 0.723607706
## 671    0.40243902 0.50495050 0.4926262 0.48085119 0.296245588
## 672    0.40243902 0.48019802 0.4895065 0.44489594 0.479182612
## 673    0.28048780 0.52475248 0.4872377 0.30801951 0.297294086
## 674    0.40243902 0.49504950 0.5053885 0.35938833 0.311404648
## 675    0.53658537 0.38613861 0.4807147 0.60543515 0.420794410
## 676    0.59756098 0.48762376 0.4826999 0.44860623 0.341399170
## 677    0.37804878 0.44059406 0.4895065 0.44209459 0.321871069
## 678    0.71951220 0.32425743 0.4815655 0.66911779 0.656551548
## 679    0.43902439 0.63861386 0.4815655 0.48380305 0.288190627
## 680    0.56097561 0.46782178 0.5059558 0.46944859 0.385626049
## 681    0.46341463 0.50000000 0.4912082 0.42773842 0.117130340
## 682    0.62195122 0.52227723 0.4829836 0.50109909 0.449355383
## 683    0.21951220 0.51485149 0.4707884 0.43697627 0.434762593
## 684    0.37804878 0.52970297 0.4863868 0.44143880 0.182595255
## 685    0.56097561 0.31930693 0.4744753 0.63022791 0.593671613
## 686    0.52439024 0.62376238 0.4775950 0.47789746 0.594914690
## 687    0.43902439 0.54702970 0.4917754 0.34392253 0.579561724
## 688    0.65853659 0.42574257 0.4778786 0.45626137 0.083311007
## 689    0.40243902 0.69306931 0.4838344 0.37240323 0.310211541
## 690    0.46341463 0.60148515 0.4824163 0.41296520 0.440770484
## 691    0.43902439 0.50495050 0.4455474 0.61222632 0.271578042
## 692    0.47560976 0.35643564 0.4971639 0.51811163 0.272901652
## 693    0.50000000 0.29207921 0.4880885 0.41497108 0.571551093
## 694    0.46341463 0.62376238 0.4866704 0.39830566 0.480064167
## 695    0.50000000 0.56683168 0.4985820 0.58066154 0.913412019
## 696    0.56097561 0.37623762 0.4829836 0.54951201 0.359084989
## 697    0.56097561 0.49009901 0.4778786 0.62310594 0.496440643
## 698    0.47560976 0.46287129 0.4696540 0.50959248 0.524264962
## 699    0.43902439 0.63118812 0.4722065 0.46582765 0.453503446
## 700    0.56097561 0.50000000 0.4863868 0.47401172 0.384598402
## 701    0.41463415 0.41831683 0.4855360 0.53146444 0.523901652
## 702    0.43902439 0.49504950 0.4736245 0.54386333 0.504951716
## 703    0.46341463 0.51980198 0.4988656 0.33144464 0.525944259
## 704    0.50000000 0.45297030 0.4724901 0.56254708 0.025416769
## 705    0.37804878 0.34158416 0.4809983 0.64825244 0.513595135
## 706    0.71951220 0.50247525 0.4909246 0.56662118 0.528225248
## 707    0.52439024 0.55198020 0.4929098 0.47978801 0.343431597
## 708    0.09756098 0.64108911 0.5051049 0.08473009 0.522631216
## 709    0.53658537 0.55445545 0.4673851 0.51701653 0.434360584
## 710    0.50000000 0.44801980 0.4739081 0.60149830 0.423580566
```

```
## 711   0.40243902 0.65099010 0.4696540 0.45134387 0.478219672
## 712   0.46341463 0.44059406 0.5070902 0.26477904 0.518429652
## 713   0.40243902 0.44801980 0.4750425 0.53709353 0.604110873
## 714   0.71951220 0.38366337 0.4767442 0.72335572 0.544136080
## 715   0.53658537 0.39603960 0.4954623 0.49684149 0.594308900
## 716   0.50000000 0.34653465 0.4951787 0.43252437 0.531414893
## 717   0.56097561 0.41336634 0.4600113 0.58307726 0.575240082
## 718   0.35365854 0.36633663 0.4801475 0.60767415 0.494909059
## 719   0.53658537 0.55693069 0.4778786 0.51289992 0.529127720
## 720   0.37804878 0.21534653 0.4719229 0.44046320 0.661177170
## 721   0.41463415 0.62128713 0.4636982 0.48821214 0.399338521
## 722   0.52439024 0.43069307 0.4963131 0.55840221 0.600254016
## 723   0.56097561 0.63613861 0.4832672 0.41341017 0.332188408
## 724   0.43902439 0.60891089 0.4688032 0.46351191 0.367702779
## 725   0.37804878 0.57178218 0.4889393 0.48148392 0.441575715
## 726   0.64634146 0.54950495 0.4775950 0.53127425 0.239720945
## 727   0.46341463 0.44554455 0.4917754 0.46402552 0.640398999
## 728   0.41463415 0.55940594 0.4758934 0.45065417 0.371818690
## 729   0.43902439 0.47029703 0.4690868 0.59593351 0.621939682
## 730   0.47560976 0.37128713 0.4716393 0.57180353 0.514882506
## 731   0.56097561 0.56188119 0.4773114 0.48125688 0.385442482
## 732   0.41463415 0.53465347 0.4696540 0.55588743 0.488099211
## 733   0.52439024 0.31435644 0.5042541 0.46855197 0.529896259
## 734   0.56097561 0.59900990 0.5235394 0.53893623 0.510501942
## 735   0.47560976 0.39603960 0.4980147 0.45389577 0.469980930
## 736   0.40243902 0.65099010 0.4710720 0.46152120 0.484424971
## 737   0.65853659 0.27227723 0.4804311 0.64819955 0.537654797
## 738   0.65853659 0.56930693 0.4790130 0.54413980 0.343064338
## 739   0.56097561 0.40841584 0.4926262 0.50369079 0.598647708
## 740   0.46341463 0.62376238 0.4971639 0.42949231 0.532338507
## 741   0.53658537 0.34158416 0.4778786 0.57269114 0.461067423
## 742   0.58536585 0.45049505 0.5045377 0.40071457 0.537613455
## 743   0.36585366 0.49504950 0.4770278 0.34025456 0.445608451
## 744   0.56097561 0.45544554 0.4866704 0.46763014 0.663253601
## 745   0.50000000 0.51237624 0.4781622 0.48850165 0.493643159
## 746   0.53658537 0.32920792 0.4880885 0.59523575 0.563646117
## 747   0.62195122 0.33168317 0.4920590 0.55007952 0.502913694
## 748   0.50000000 0.51980198 0.4892229 0.50307164 0.522462947
## 749   0.56097561 0.43069307 0.4997164 0.50109909 0.628820598
## 750   0.52439024 0.46782178 0.5011344 0.42839912 0.538256859
## 751   0.52439024 0.44801980 0.4934770 0.45818343 0.560074239
## 752   0.43902439 0.48762376 0.4971639 0.45431822 0.459530990
## 753   0.62195122 0.58415842 0.4719229 0.64894396 0.372609188
## 754   0.46341463 0.65099010 0.5011344 0.47548350 0.452683671
## 755   0.46341463 0.65841584 0.4869541 0.53235623 0.488707507
## 756   0.56097561 0.35643564 0.4807147 0.58772079 0.594060757
## 757   0.40243902 0.55198020 0.4818491 0.57445597 0.571230312
## 758   0.53658537 0.63861386 0.5034033 0.36448062 0.627237260
## 759   0.40243902 0.69059406 0.4940442 0.41543050 0.555557384
## 760   0.70731707 0.38861386 0.4775950 0.67330035 0.488390742
## 761   0.28048780 0.43564356 0.4829836 0.35340103 0.481768128
## 762   0.41463415 0.44306931 0.4656835 0.55404419 0.385306336
## 763   0.43902439 0.58415842 0.4957459 0.36031195 0.473194023
## 764   0.41463415 0.31435644 0.5002836 0.54610915 0.417887934
## 765   0.34146341 0.38118812 0.5070902 0.28375265 0.486784717
## 766   0.41463415 0.43316832 0.4710720 0.58447482 0.449231985
## 767   0.34146341 0.51237624 0.4946115 0.54056644 0.825867758
## 768   0.50000000 0.48267327 0.4690868 0.58953092 0.506774203
```

376

```
## 769    0.53658537 0.61386139 0.4673851 0.45228838 0.314490045
## 770    0.53658537 0.30940594 0.4954623 0.58675568 0.387224611
## 771    0.23170732 0.54455446 0.4883721 0.42894425 0.479546402
## 772    0.43902439 0.43564356 0.4682360 0.55558765 0.463436568
## 773    0.53658537 0.52227723 0.4673851 0.62297099 0.553181434
## 774    0.43902439 0.55445545 0.5025525 0.34534896 0.509732581
## 775    0.35365854 0.42326733 0.4710720 0.56224821 0.499819788
## 776    0.46341463 0.50990099 0.5107771 0.38029947 0.456876236
## 777    0.56097561 0.52475248 0.4716393 0.77208770 0.555111222
## 778    0.53658537 0.44554455 0.4795803 0.49514644 0.487201011
## 779    0.46341463 0.25247525 0.4909246 0.69121811 0.630414526
## 780    0.28048780 0.75000000 0.5028361 0.26062821 0.428824396
## 781    0.58536585 0.40099010 0.4965967 0.45139832 0.449433909
## 782    0.47560976 0.60891089 0.4917754 0.53783744 0.526174118
## 783    0.47560976 0.42079208 0.4875213 0.51767365 0.362332718
## 784    0.71951220 0.38861386 0.4778786 0.62721829 0.569706599
## 785    0.41463415 0.56683168 0.4758934 0.44922549 0.373399685
## 786    0.40243902 0.47524752 0.4807147 0.43595363 0.370858382
## 787    0.43902439 0.50247525 0.4733409 0.49111678 0.490598280
## 788    0.46341463 0.65099010 0.4863868 0.58685874 0.546547946
## 789    0.59756098 0.44554455 0.4781622 0.59032595 0.374144752
## 790    0.65853659 0.50990099 0.4679524 0.48703220 0.373903262
## 791    0.56097561 0.18564356 0.4841180 0.54341930 0.516168350
## 792    0.41463415 0.62871287 0.4931934 0.43831613 0.425767714
## 793    0.43902439 0.47277228 0.4804311 0.57452237 0.489026195
## 794    0.50000000 0.48514851 0.4815655 0.50234710 0.333729302
## 795    0.65853659 0.41336634 0.4954623 0.69221659 0.598380104
## 796    0.50000000 0.43316832 0.4767442 0.46912837 0.609881445
## 797    0.34146341 0.38366337 0.4929098 0.28279399 0.349817725
## 798    0.56097561 0.54950495 0.4957459 0.49868603 0.347588219
## 799    0.42682927 0.64603960 0.4611458 0.64742661 0.366443306
## 800    0.43902439 0.49009901 0.4980147 0.37534000 0.518879432
## 801    0.56097561 0.47029703 0.4929098 0.47379981 0.418349551
## 802    0.28048780 0.54950495 0.4912082 0.37238030 0.365311405
## 803    0.56097561 0.40099010 0.4940442 0.44242562 0.506583898
## 804    0.56097561 0.36386139 0.4895065 0.45244367 0.526252967
## 805    0.37804878 0.51980198 0.4968803 0.48582499 0.395640569
## 806    0.46341463 0.54702970 0.5119115 0.42209612 0.433982546
## 807    0.50000000 0.39851485 0.4948951 0.46541382 0.408005915
## 808    0.46341463 0.54950495 0.5110607 0.43496341 0.230934444
## 809    0.36585366 0.42326733 0.4934770 0.40144719 0.550920823
## 810    0.75609756 0.34900990 0.4730573 0.78996769 0.557401469
## 811    0.40243902 0.55940594 0.4543392 0.52565176 0.534839588
## 812    0.52439024 0.41089109 0.4988656 0.43276581 0.516559420
## 813    0.56097561 0.48267327 0.4909246 0.40438219 0.546959529
## 814    0.37804878 0.63613861 0.4914918 0.58115913 0.443817600
## 815    0.56097561 0.47524752 0.4699376 0.53911422 0.594518025
## 816    0.56097561 0.52722772 0.4784458 0.73471582 0.281150449
## 817    0.63414634 0.33910891 0.4699376 0.52604168 0.528958328
## 818    0.43902439 0.42821782 0.4895065 0.54948164 0.292291833
## 819    0.71951220 0.36138614 0.4773114 0.50319973 0.483366690
## 820    0.46341463 0.54207921 0.5090754 0.44158949 0.376034677
## 821    0.47560976 0.34653465 0.4747589 0.47818379 0.545385355
## 822    0.28048780 0.63366337 0.5147476 0.38884710 0.468528212
## 823    0.46341463 0.55198020 0.5113443 0.39569716 0.423470264
## 824    0.31707317 0.44306931 0.4798639 0.42488238 0.415055474
## 825    0.19512195 0.70049505 0.5025525 0.26761122 0.459782576
## 826    0.56097561 0.40346535 0.4744753 0.46948076 0.444069166
```

```
## 827   0.47560976 0.48514851 0.4846852 0.47589120 0.482854708
## 828   0.59756098 0.47029703 0.4838344 0.42603189 0.588095423
## 829   0.43902439 0.64108911 0.4792967 0.51145620 0.606054772
## 830   0.65853659 0.43069307 0.4588769 0.66185396 0.695165760
## 831   0.56097561 0.47524752 0.4946115 0.50254422 0.550936155
## 832   0.43902439 0.44801980 0.4790130 0.49709421 0.422215354
## 833   0.47560976 0.48514851 0.4846852 0.45502977 0.474816243
## 834   0.59756098 0.47772277 0.4875213 0.50216154 0.409207841
## 835   0.43902439 0.35396040 0.4875213 0.53482675 0.495926819
## 836   0.50000000 0.52970297 0.4801475 0.48092283 0.371368605
## 837   0.52439024 0.41831683 0.5002836 0.40258312 0.575477894
## 838   0.47560976 0.27970297 0.4920590 0.36411702 0.345315769
## 839   0.43902439 0.36386139 0.4892229 0.54020069 0.548802328
## 840   0.58536585 0.67574257 0.4668179 0.55763268 0.409005016
## 841   0.56097561 0.42574257 0.5000000 0.52317973 0.563670361
## 842   0.56097561 0.52970297 0.4716393 0.54852874 0.599858437
## 843   0.46341463 0.58415842 0.4795803 0.49741443 0.651748543
## 844   0.52439024 0.43811881 0.4787294 0.43670795 0.363991213
## 845   0.43902439 0.43316832 0.4665343 0.55630814 0.443973558
## 846   0.31707317 0.52722772 0.4812819 0.43781895 0.433978797
## 847   0.43902439 0.42821782 0.4707884 0.52833279 0.418570324
## 848   0.56097561 0.29950495 0.4716393 0.54371817 0.515033440
## 849   0.50000000 0.51980198 0.4773114 0.49579834 0.756140542
## 850   0.50000000 0.45792079 0.4832672 0.53349250 0.439596543
## 851   0.46341463 0.36881188 0.4917754 0.46150132 0.421085058
## 852   0.53658537 0.47524752 0.4736245 0.57681047 0.499531852
## 853   0.53658537 0.62623762 0.4753261 0.37747008 0.431866555
## 854   0.41463415 0.33663366 0.4798639 0.45929941 0.398902993
## 855   0.56097561 0.51485149 0.4985820 0.33401130 0.524895353
## 856   0.50000000 0.32178218 0.5102099 0.47410409 0.688704440
## 857   0.50000000 0.38613861 0.5031197 0.57705651 0.398852045
## 858   0.53658537 0.33415842 0.4764606 0.44879010 0.654669665
## 859   0.71951220 0.47029703 0.5096427 0.67893670 0.664354919
## 860   0.47560976 0.46534653 0.4832672 0.49730769 0.392591211
## 861   0.53658537 0.48514851 0.4892229 0.51929379 0.673182027
## 862   0.34146341 0.53465347 0.4965967 0.30531304 0.368742992
## 863   0.30487805 0.39108911 0.4971639 0.52611586 0.524606900
## 864   0.56097561 0.49752475 0.4943279 0.53434381 0.592602596
## 865   0.37804878 0.60891089 0.4665343 0.40229828 0.350075125
## 866   0.37804878 0.32425743 0.4705048 0.45475051 0.841216188
## 867   0.58536585 0.40099010 0.4750425 0.42684781 0.385659094
## 868   0.62195122 0.33415842 0.4736245 0.66559486 0.432320883
## 869   0.36585366 0.57178218 0.4841180 0.49154374 0.377440007
## 870   0.50000000 0.47277228 0.5051049 0.59541202 0.323633039
## 871   0.43902439 0.49009901 0.4844016 0.35384486 0.396469441
## 872   0.53658537 0.32425743 0.4849688 0.40128651 0.813328983
## 873   0.43902439 0.61138614 0.4849688 0.48454840 0.402410949
## 874   0.50000000 0.45792079 0.4685196 0.56849755 0.120865738
## 875   0.56097561 0.50742574 0.4861032 0.57560583 0.406174745
## 876   0.50000000 0.47772277 0.4880885 0.45521338 0.528250986
## 877   0.31707317 0.54950495 0.4875213 0.50266069 0.493129336
## 878   0.62195122 0.30693069 0.4730573 0.45269820 0.503338333
## 879   0.34146341 0.45544554 0.4988656 0.48719409 0.695747056
## 880   0.46341463 0.63366337 0.5005672 0.48690541 0.598380104
## 881   0.37804878 0.50495050 0.4767442 0.52240708 0.501905856
## 882   0.40243902 0.53712871 0.4991492 0.33470732 0.322749281
## 883   0.56097561 0.30445545 0.4943279 0.68055537 0.610285478
## 884   0.65853659 0.38118812 0.4775950 0.61570979 0.543367869
```

```
## 885    0.46341463 0.41089109 0.4821327 0.46679414 0.498135359
## 886    0.56097561 0.54207921 0.4858196 0.64326337 0.335388317
## 887    0.65853659 0.51485149 0.4886557 0.52561068 0.557829750
## 888    0.47560976 0.56683168 0.4775950 0.46927616 0.427680523
## 889    0.56097561 0.30693069 0.4985820 0.45617774 0.387674074
## 890    0.52439024 0.54950495 0.4815655 0.40503353 0.322229424
## 891    0.50000000 0.40841584 0.4880885 0.51532965 0.528400462
## 892    0.40243902 0.57673267 0.4798639 0.32664402 0.576187947
## 893    0.43902439 0.54950495 0.4758934 0.70468769 0.394926772
## 894    0.65853659 0.53712871 0.4795803 0.75959213 0.385871981
## 895    0.69512195 0.39603960 0.4733409 0.86798787 0.311428347
## 896    0.40243902 0.64603960 0.4798639 0.41318602 0.598234780
## 897    0.46341463 0.34158416 0.4619966 0.37408139 0.009974385
## 898    0.52439024 0.54950495 0.4869541 0.51979695 0.564173115
## 899    0.43902439 0.52970297 0.4838344 0.50341321 0.470295456
## 900    0.63414634 0.37871287 0.4583097 0.58746886 0.351763505
## 901    0.46341463 0.59405941 0.4707884 0.54061637 0.472178814
## 902    0.41463415 0.47029703 0.4756098 0.58912531 0.437541249
## 903    0.21951220 0.60396040 0.4824163 0.26607100 0.318848388
## 904    0.56097561 0.43316832 0.5158820 0.54130585 0.416455457
## 905    0.50000000 0.51485149 0.4931934 0.64054001 0.237940423
## 906    0.40243902 0.31930693 0.4824163 0.52046886 0.444875972
## 907    0.58536585 0.28712871 0.4886557 0.57324265 0.531334886
## 908    0.47560976 0.47524752 0.5005672 0.47761028 0.596881294
## 909    0.34146341 0.55198020 0.4923426 0.37781443 0.376466073
## 910    0.43902439 0.61633663 0.4747589 0.59463502 0.459547426
## 911    0.81707317 0.38613861 0.4801475 0.91388420 0.489387248
## 912    0.56097561 0.50000000 0.4977311 0.61094004 0.240351863
## 913    0.50000000 0.35891089 0.4764606 0.41344556 0.278059660
## 914    0.34146341 0.47277228 0.4889393 0.45883865 0.498235853
## 915    0.53658537 0.49009901 0.4838344 0.53587881 0.548936601
## 916    0.53658537 0.57920792 0.4838344 0.62238294 0.392845419
## 917    0.50000000 0.50000000 0.4787294 0.49602681 0.400979270
## 918    0.56097561 0.42079208 0.4829836 0.42689257 0.669143791
## 919    0.59756098 0.33415842 0.4756098 0.54304719 0.715997612
## 920    0.47560976 0.49009901 0.4906410 0.60094450 0.594223784
## 921    0.41463415 0.47277228 0.4863868 0.39871348 0.560355814
## 922    0.52439024 0.33415842 0.4761770 0.45881432 0.505203886
## 923    0.50000000 0.35148515 0.4824163 0.25427060 0.812657483
## 924    0.47560976 0.37128713 0.4903573 0.47824231 0.593057114
## 925    0.50000000 0.48514851 0.4917754 0.42345973 0.511246371
## 926    0.53658537 0.45792079 0.4948951 0.56970863 0.519818369
## 927    0.35365854 0.60396040 0.4756098 0.48792279 0.344414772
## 928    0.56097561 0.27722772 0.4713556 0.51976723 0.529496619
## 929    0.56097561 0.59158416 0.4892229 0.63059018 0.750885857
## 930    0.43902439 0.42821782 0.4778786 0.51894172 0.321363861
## 931    0.41463415 0.53960396 0.4880885 0.41382039 0.304151633
## 932    0.69512195 0.43564356 0.4940442 0.80074773 0.721963471
## 933    0.52439024 0.67326733 0.4951787 0.50782272 0.479246173
## 934    0.43902439 0.52970297 0.4855360 0.50403230 0.534634854
## 935    0.57317073 0.34158416 0.4889393 0.69010583 0.373505513
## 936    0.43902439 0.29207921 0.5014180 0.48348898 0.356535736
## 937    0.50000000 0.56435644 0.4730573 0.40172995 0.091922705
## 938    0.58536585 0.46287129 0.4835508 0.37983496 0.564060646
## 939    0.56097561 0.30445545 0.4872377 0.56929304 0.533150475
## 940    0.52439024 0.51732673 0.5090754 0.44827852 0.511560553
## 941    0.37804878 0.62376238 0.5059558 0.50133626 0.484324354
## 942    0.59756098 0.49257426 0.4940442 0.61492433 0.848409716
```

```
## 943   0.40243902 0.27970297 0.4923426 0.50835526 0.564008428
## 944   0.62195122 0.46287129 0.4744753 0.57169715 0.504534460
## 945   0.56097561 0.68811881 0.5045377 0.40476424 0.447969962
## 946   0.40243902 0.57920792 0.4889393 0.39256277 0.469822225
## 947   0.52439024 0.61386139 0.4792967 0.36991224 0.286889649
## 948   0.47560976 0.42574257 0.4849688 0.62123265 0.544568774
## 949   0.46341463 0.58663366 0.4713556 0.54024379 0.206187477
## 950   0.62195122 0.33910891 0.4787294 0.44799388 0.380361612
## 951   0.53658537 0.46287129 0.4727737 0.50158148 0.501543085
## 952   0.58536585 0.61138614 0.4943279 0.36949904 0.405819848
## 953   0.65853659 0.37623762 0.4875213 0.56117987 0.477072813
## 954   0.50000000 0.45792079 0.4835508 0.52406136 0.554632627
## 955   0.53658537 0.34653465 0.4878049 0.65785296 0.435775219
## 956   0.65853659 0.53712871 0.4858196 0.47621634 0.434029016
## 957   0.65853659 0.40099010 0.4920590 0.55285735 0.265481502
## 958   0.53658537 0.52227723 0.5022689 0.52902073 0.574632484
## 959   0.46341463 0.44059406 0.4926262 0.51266283 0.559561879
## 960   0.62195122 0.45544554 0.4934770 0.47959664 0.434164201
## 961   0.59756098 0.45297030 0.4795803 0.63905821 0.258806805
## 962   0.59756098 0.28960396 0.4895065 0.60378796 0.381484320
## 963   0.50000000 0.50000000 0.5000000 0.47146597 0.756758834
## 964   0.50000000 0.53465347 0.4835508 0.40439413 0.550097482
## 965   0.43902439 0.45297030 0.4855360 0.46679884 0.354824490
## 966   0.43902439 0.45049505 0.4849688 0.52305334 0.391563564
## 967   0.46341463 0.44306931 0.4591605 0.44291607 0.192763336
## 968   0.50000000 0.62128713 0.4753261 0.66073789 0.605243859
## 969   0.62195122 0.31188119 0.4619966 0.51521330 0.459626143
## 970   0.62195122 0.79207921 0.4276801 0.68755691 0.355043461
## 971   0.56097561 0.30445545 0.4946115 0.67652583 0.614075075
## 972   0.28048780 0.61881188 0.4838344 0.43804787 0.377443447
## 973   0.50000000 0.56930693 0.4849688 0.47606112 0.466553244
## 974   0.47560976 0.50742574 0.4960295 0.47689258 0.524645169
## 975   0.62195122 0.40346535 0.4795803 0.50077263 0.475227492
## 976   0.62195122 0.55445545 0.4631310 0.55662510 0.456107438
## 977   0.56097561 0.47772277 0.4662507 0.55238545 0.455236153
## 978   0.62195122 0.56683168 0.4875213 0.39863327 0.377141374
## 979   0.50000000 0.41336634 0.4960295 0.50307164 0.512029406
## 980   0.47560976 0.44306931 0.4826999 0.47461592 0.357188474
## 981   0.56097561 0.56930693 0.4963131 0.36713845 0.370265431
## 982   0.47560976 0.59158416 0.4778786 0.48501865 0.369025598
## 983   0.37804878 0.35148515 0.4980147 0.36346458 0.574805665
## 984   0.84146341 0.46534653 0.4662507 0.92986025 0.530562327
## 985   0.50000000 0.39108911 0.4872377 0.56508856 0.449105240
## 986   0.57317073 0.33663366 0.4773114 0.48385847 0.442551460
## 987   0.43902439 0.54455446 0.5062394 0.47344158 0.548037645
## 988   0.50000000 0.59653465 0.4982984 0.42738339 0.571391397
## 989   0.78048780 0.43564356 0.4792967 0.65192591 0.589779039
## 990   0.46341463 0.51237624 0.5022689 0.48396232 0.588415043
## 991   0.64634146 0.38118812 0.4767442 0.64793096 0.464754862
## 992   0.53658537 0.41336634 0.4656835 0.79702301 0.313252156
## 993   0.62195122 0.28217822 0.4710720 0.57349786 0.562133268
## 994   0.50000000 0.55445545 0.4980147 0.55943028 0.322368671
## 995   0.59756098 0.50990099 0.4679524 0.74623864 0.514576708
## 996   0.43902439 0.43564356 0.4727737 0.39489313 0.678371383
## 997   0.53658537 0.53217822 0.4872377 0.63570878 0.815782517
## 998   0.43902439 0.75247525 0.5198525 0.38309044 0.586792442
## 999   0.65853659 0.44306931 0.4682360 0.57871307 0.410885312
## 1000  0.50000000 0.50000000 0.4897901 0.54711414 0.704354696
```

380

```
## 1001 0.43902439 0.49009901 0.4639818 0.50964682 0.349391979
## 1002 0.53658537 0.60643564 0.4696540 0.54510773 0.301711930
## 1003 0.46341463 0.47524752 0.4744753 0.40966069 0.470349829
## 1004 0.56097561 0.43811881 0.4883721 0.47426551 0.543826989
## 1005 0.62195122 0.62376238 0.4330686 0.52342722 0.388563946
## 1006 0.53658537 0.48762376 0.5017016 0.65620936 0.562879574
## 1007 0.53658537 0.43069307 0.4866704 0.59008402 0.562775771
## 1008 0.50000000 0.44554455 0.4758934 0.46567554 0.556456149
## 1009 0.57317073 0.52970297 0.5190017 0.62142478 0.665602746
## 1010 0.58536585 0.60643564 0.4920590 0.39618573 0.428300879
## 1011 0.40243902 0.50495050 0.5056721 0.30413664 0.404713592
## 1012 0.56097561 0.52227723 0.4957459 0.38262761 0.590902106
## 1013 0.59756098 0.53465347 0.4622802 0.55589575 0.413464419
## 1014 0.24390244 0.55693069 0.4974475 0.13075869 0.543454395
## 1015 0.56097561 0.47524752 0.4841180 0.59156868 0.608967981
## 1016 0.59756098 0.44059406 0.4906410 0.43179077 0.359516205
## 1017 0.41463415 0.59405941 0.4761770 0.45887297 0.445460592
## 1018 0.31707317 0.42821782 0.4713556 0.42468012 0.431540299
## 1019 0.59756098 0.38861386 0.4563244 0.62106353 0.600065438
## 1020 0.40243902 0.42079208 0.4951787 0.34415891 0.530601080
## 1021 0.62195122 0.25990099 0.4821327 0.48393355 0.620669769
## 1022 0.59756098 0.56930693 0.4662507 0.68317912 0.421593691
## 1023 0.46341463 0.54702970 0.4991492 0.59412719 0.236219379
## 1024 0.56097561 0.38613861 0.4662507 0.56978991 0.234272101
## 1025 0.21951220 0.63118812 0.4506523 0.33122049 0.275858132
## 1026 0.40243902 0.44554455 0.5014180 0.50836594 0.604248418
## 1027 0.43902439 0.57920792 0.4563244 0.63179291 0.158572131
## 1028 0.47560976 0.50247525 0.4968803 0.56371498 0.625128963
## 1029 0.43902439 0.57425743 0.4821327 0.59951239 0.549085671
## 1030 0.37804878 0.55198020 0.4719229 0.44816440 0.364404274
## 1031 0.40243902 0.51485149 0.4923426 0.45046258 0.306080516
## 1032 0.41463415 0.52227723 0.4917754 0.43470102 0.496488187
## 1033 0.68292683 0.41336634 0.4869541 0.60009504 0.603743942
## 1034 0.21951220 0.53712871 0.4835508 0.13646796 0.456643011
## 1035 0.37804878 0.42079208 0.4869541 0.36013358 0.428032414
## 1036 0.71951220 0.47029703 0.4963131 0.61800135 0.520839472
## 1037 0.34146341 0.52227723 0.4923426 0.44951818 0.254515040
## 1038 0.31707317 0.56683168 0.4985820 0.32455736 0.471443249
## 1039 0.46341463 0.65099010 0.5150312 0.54553631 0.255698491
## 1040 0.50000000 0.56930693 0.4730573 0.51786578 0.680081149
## 1041 0.50000000 0.50000000 0.4878049 0.39336860 0.321971513
## 1042 0.50000000 0.45792079 0.5155984 0.45539284 0.727906359
## 1043 0.46341463 0.35148515 0.4784458 0.31453464 0.322037172
## 1044 0.65853659 0.42574257 0.4841180 0.56425506 0.749075882
## 1045 0.68292683 0.40346535 0.4838344 0.64974287 0.542285114
## 1046 0.53658537 0.46287129 0.4775950 0.51427784 0.502028971
## 1047 0.40243902 0.47277228 0.4906410 0.39958736 0.319285730
## 1048 0.50000000 0.33168317 0.4801475 0.31592436 0.726843978
## 1049 0.28048780 0.55940594 0.4903573 0.33786561 0.365310908
## 1050 0.47560976 0.47277228 0.4889393 0.44771385 0.586339409
## 1051 0.53658537 0.52970297 0.4872377 0.55665504 0.771107830
## 1052 0.50000000 0.40099010 0.4889393 0.56715673 0.476254938
## 1053 0.43902439 0.45049505 0.4807147 0.35266343 0.524022519
## 1054 0.59756098 0.39356436 0.4861032 0.55505317 0.690329578
## 1055 0.47560976 0.56435644 0.4889393 0.52088252 0.588110555
## 1056 0.46341463 0.61138614 0.4849688 0.62648802 0.142414783
## 1057 0.46341463 0.49257426 0.4846852 0.48776022 0.153957541
## 1058 0.35365854 0.71287129 0.4809983 0.43953396 0.439330676
```

```
## 1059 0.34146341 0.57178218 0.4968803 0.44268200 0.457138185
## 1060 0.65853659 0.46782178 0.5070902 0.68822258 0.601431904
## 1061 0.59756098 0.58415842 0.4753261 0.56410568 0.374572578
## 1062 0.30487805 0.59653465 0.4739081 0.31881732 0.341399170
## 1063 0.59756098 0.33168317 0.4770278 0.57179637 0.428366546
## 1064 0.53658537 0.41089109 0.4875213 0.54655263 0.504607182
## 1065 0.58536585 0.46534653 0.4844016 0.38226968 0.471054571
## 1066 0.47560976 0.52475248 0.4617130 0.54908213 0.410529960
## 1067 0.34146341 0.49009901 0.5025525 0.49461785 0.468808359
## 1068 0.68292683 0.54950495 0.4903573 0.45937540 0.533802949
## 1069 0.56097561 0.50742574 0.4716393 0.48296185 0.308438346
## 1070 0.59756098 0.50247525 0.4744753 0.63889399 0.489075840
## 1071 0.59756098 0.36138614 0.4858196 0.57807752 0.386121960
## 1072 0.50000000 0.57673267 0.5039705 0.51986988 0.580183036
## 1073 0.40243902 0.49009901 0.4157686 0.50475279 0.450422302
## 1074 0.34146341 0.62128713 0.4747589 0.39693784 0.377450685
## 1075 0.25609756 0.59158416 0.4900737 0.48472581 0.443918097
## 1076 0.31707317 0.46534653 0.4985820 0.55370400 0.721376529
## 1077 0.47560976 0.35891089 0.4812819 0.47433921 0.561540519
## 1078 0.47560976 0.58415842 0.4747589 0.46438535 0.313267615
## 1079 0.43902439 0.56930693 0.4880885 0.45338633 0.424206346
## 1080 0.50000000 0.46534653 0.4951787 0.43688517 0.488805953
## 1081 0.56097561 0.31683168 0.5116279 0.49991754 0.469673757
## 1082 0.68292683 0.49752475 0.4940442 0.44321038 0.412743471
## 1083 0.43902439 0.49752475 0.4824163 0.50713049 0.416755077
## 1084 0.62195122 0.46287129 0.4801475 0.57370625 0.466218481
## 1085 0.62195122 0.62623762 0.4705048 0.51412989 0.413867309
## 1086 0.58536585 0.40099010 0.5175837 0.44030861 0.439977153
## 1087 0.28048780 0.52970297 0.4883721 0.32112069 0.422999323
## 1088 0.56097561 0.36881188 0.4844016 0.46720705 0.496814909
## 1089 0.56097561 0.58415842 0.4880885 0.50952727 0.525660070
## 1090 0.40243902 0.57178218 0.4770278 0.46896580 0.246305232
## 1091 0.43902439 0.39603960 0.4858196 0.46481608 0.496193246
## 1092 0.59756098 0.35891089 0.4795803 0.61844879 0.409035992
## 1093 0.43902439 0.35643564 0.5150312 0.40911586 0.575097700
## 1094 0.53658537 0.37376238 0.4775950 0.39617203 0.096337913
## 1095 0.74390244 0.27722772 0.4696540 0.60763564 0.380601997
## 1096 0.36585366 0.46534653 0.4832672 0.32410204 0.451001718
## 1097 0.64634146 0.31435644 0.4994328 0.37870728 0.433833115
## 1098 0.31707317 0.63861386 0.4838344 0.47297901 0.512711719
## 1099 0.71951220 0.49752475 0.4917754 0.64268736 0.460073360
## 1100 0.62195122 0.16089109 0.4668179 0.67208267 0.512437294
## 1101 0.59756098 0.49257426 0.4750425 0.54510046 0.570145764
## 1102 0.40243902 0.52227723 0.4900737 0.52700141 0.347611467
## 1103 0.59756098 0.35643564 0.4818491 0.62320200 0.511512798
## 1104 0.43902439 0.52722772 0.4727737 0.58260755 0.583985530
## 1105 0.59756098 0.56435644 0.4648327 0.61293936 0.443195615
## 1106 0.46341463 0.30940594 0.4982984 0.63515176 0.518862707
## 1107 0.53658537 0.49504950 0.4948951 0.51855862 0.661492158
## 1108 0.37804878 0.52722772 0.5014180 0.58438948 0.283164139
## 1109 0.58536585 0.41584158 0.5124787 0.52915498 0.536265896
## 1110 0.52439024 0.50742574 0.4619966 0.49836350 0.465441355
## 1111 0.59756098 0.54207921 0.4750425 0.65267919 0.501040992
## 1112 0.52439024 0.33663366 0.4773114 0.64396824 0.481083030
## 1113 0.24390244 0.55198020 0.4863868 0.36046426 0.401468225
## 1114 0.47560976 0.47277228 0.4719229 0.56582201 0.495249462
## 1115 0.50000000 0.54207921 0.4826999 0.42252182 0.466967657
## 1116 0.71951220 0.31683168 0.4897901 0.55633250 0.537454677
```

```
## 1117 0.53658537 0.54207921 0.5000000 0.51500299 0.635664309
## 1118 0.62195122 0.33663366 0.4937606 0.54483653 0.621285011
## 1119 0.58536585 0.46534653 0.4838344 0.38338619 0.437825751
## 1120 0.52439024 0.44306931 0.5116279 0.52186998 0.487025736
## 1121 0.46341463 0.51237624 0.4872377 0.49818102 0.381312226
## 1122 0.47560976 0.59405941 0.4761770 0.49317287 0.430716228
## 1123 0.46341463 0.50495050 0.4676687 0.48637972 0.463987174
## 1124 0.59756098 0.53217822 0.4809983 0.59933340 0.482695025
## 1125 0.31707317 0.53712871 0.4914918 0.35596162 0.400797854
## 1126 0.40243902 0.52227723 0.4807147 0.39373156 0.594721662
## 1127 0.46341463 0.59653465 0.4977311 0.41449229 0.523212617
## 1128 0.35365854 0.52722772 0.4736245 0.49487779 0.519905248
## 1129 0.52439024 0.39851485 0.4914918 0.42235272 0.473126279
## 1130 0.37804878 0.48514851 0.4889393 0.50909909 0.506359882
## 1131 0.68292683 0.56435644 0.4662507 0.63601681 0.356460450
## 1132 0.43902439 0.48762376 0.4469654 0.35602683 0.447893840
## 1133 0.62195122 0.46534653 0.4787294 0.47949091 0.700983724
## 1134 0.65853659 0.35643564 0.4946115 0.60377306 0.447589352
## 1135 0.43902439 0.43564356 0.4985820 0.36586599 0.516820304
## 1136 0.56097561 0.36633663 0.4929098 0.45222078 0.492501329
## 1137 0.50000000 0.34405941 0.4954623 0.46296500 0.371221803
## 1138 0.41463415 0.38861386 0.4716393 0.60257308 0.237904706
## 1139 0.52439024 0.48514851 0.4858196 0.53878679 0.416531579
## 1140 0.34146341 0.52475248 0.4957459 0.34366232 0.331900955
## 1141 0.46341463 0.55940594 0.4954623 0.31834602 0.419892657
## 1142 0.37804878 0.38613861 0.4826999 0.28345050 0.530753419
## 1143 0.46341463 0.38613861 0.4960295 0.55503454 0.511185819
## 1144 0.58536585 0.49009901 0.4617130 0.36426317 0.317148118
## 1145 0.62195122 0.30445545 0.4878049 0.51640549 0.529426094
## 1146 0.43902439 0.60148515 0.5144640 0.44146152 0.618613856
## 1147 0.62195122 0.57920792 0.4875213 0.46822346 0.492917381
## 1148 0.25609756 0.64851485 0.4829836 0.42549563 0.467757203
## 1149 0.62195122 0.35148515 0.4968803 0.55788273 0.498709889
## 1150 0.15853659 0.50495050 0.4880885 0.18773739 0.440518830
## 1151 0.50000000 0.50990099 0.4807147 0.66321305 0.474791683
## 1152 0.56097561 0.43316832 0.4948951 0.57466555 0.630598768
## 1153 0.50000000 0.53712871 0.4744753 0.52285328 0.519018421
## 1154 0.62195122 0.49257426 0.4821327 0.56192799 0.634316606
## 1155 0.50000000 0.56683168 0.4821327 0.47170224 0.405586470
## 1156 0.65853659 0.70544554 0.4741917 0.59384070 0.378291471
## 1157 0.46341463 0.53217822 0.4974475 0.35783143 0.268461263
## 1158 0.68292683 0.30693069 0.4795803 0.62756315 0.448584794
## 1159 0.50000000 0.57673267 0.4710720 0.63462909 0.282605385
## 1160 0.56097561 0.40841584 0.4736245 0.43433118 0.647790199
## 1161 0.15853659 0.56435644 0.4807147 0.12177129 0.468857838
## 1162 0.56097561 0.40099010 0.4895065 0.60897093 0.444498742
## 1163 0.71951220 0.40841584 0.4835508 0.69725588 0.661316492
## 1164 0.53658537 0.67079208 0.4889393 0.60296243 0.454142158
## 1165 0.43902439 0.56683168 0.4838344 0.59558982 0.210159889
## 1166 0.28048780 0.41584158 0.4795803 0.12528519 0.675914630
## 1167 0.59756098 0.47524752 0.5002836 0.63491998 0.607928623
## 1168 0.28048780 0.39356436 0.4835508 0.25293651 0.433891719
## 1169 0.40243902 0.66089109 0.4914918 0.38158035 0.428787220
## 1170 0.34146341 0.59653465 0.4878049 0.47658184 0.196963365
## 1171 0.40243902 0.47524752 0.4812819 0.35042819 0.220310566
## 1172 0.50000000 0.46287129 0.4801475 0.51299845 0.465097411
## 1173 0.53658537 0.44059406 0.4807147 0.54118249 0.338073039
## 1174 0.43902439 0.58910891 0.4744753 0.38119973 0.775133265
```

```
## 1175 0.56097561 0.39108911 0.4770278 0.46390633 0.542390514
## 1176 0.46341463 0.42821782 0.5090754 0.41523536 0.450984136
## 1177 0.56097561 0.42574257 0.4968803 0.53084318 0.532138177
## 1178 0.53658537 0.54702970 0.4741917 0.47903313 0.356043295
## 1179 0.50000000 0.37871287 0.4826999 0.51814446 0.434619810
## 1180 0.43902439 0.64603960 0.4926262 0.31889614 0.423991534
## 1181 0.34146341 0.53465347 0.4807147 0.35691048 0.347762003
## 1182 0.56097561 0.39108911 0.4841180 0.43100284 0.571979612
## 1183 0.52439024 0.48267327 0.5073738 0.51114117 0.358770209
## 1184 0.31707317 0.42326733 0.4801475 0.34336468 0.354841074
## 1185 0.40243902 0.58168317 0.4974475 0.42914691 0.445592614
## 1186 0.69512195 0.39356436 0.4724901 0.87054260 0.283418697
## 1187 0.43902439 0.50247525 0.4795803 0.49701949 0.508866122
## 1188 0.43902439 0.39603960 0.4912082 0.48334973 0.502372633
## 1189 0.62195122 0.49752475 0.4792967 0.67492280 0.402677376
## 1190 0.68292683 0.33910891 0.4719229 0.53301476 0.606472476
## 1191 0.56097561 0.41336634 0.4838344 0.59049158 0.513191288
## 1192 0.47560976 0.49752475 0.4909246 0.58025884 0.589052343
## 1193 0.47560976 0.57178218 0.4716393 0.52688284 0.437049384
## 1194 0.59756098 0.35643564 0.4869541 0.67828510 0.372304700
## 1195 0.64634146 0.31435644 0.5170164 0.49973290 0.436232774
## 1196 0.59756098 0.50990099 0.4863868 0.47872240 0.509091447
## 1197 0.37804878 0.52722772 0.4821327 0.47735296 0.405481870
## 1198 0.41463415 0.49752475 0.4739081 0.50122567 0.556766204
## 1199 0.34146341 0.47277228 0.4943279 0.42012016 0.320256339
## 1200 0.34146341 0.61138614 0.4809983 0.39609702 0.358618121
## 1201 0.37804878 0.48019802 0.4807147 0.54151415 0.567660322
## 1202 0.75609756 0.37623762 0.4900737 0.75300107 0.567763394
## 1203 0.69512195 0.38366337 0.4750425 0.60968688 0.501804954
## 1204 0.50000000 0.48762376 0.4784458 0.72080429 0.311332959
## 1205 0.59756098 0.46287129 0.4804311 0.59827103 0.588431834
## 1206 0.56097561 0.67079208 0.4895065 0.72032722 0.244289422
## 1207 0.47560976 0.59158416 0.4883721 0.56825553 0.569780379
## 1208 0.56097561 0.38366337 0.5070902 0.51375604 0.439782206
## 1209 0.47560976 0.47277228 0.5008508 0.49248266 0.578278073
## 1210 0.47560976 0.42821782 0.4753261 0.68043672 0.555644807
## 1211 0.71951220 0.40841584 0.4838344 0.69224649 0.659525888
## 1212 0.43902439 0.52970297 0.4696540 0.62328683 0.404240306
## 1213 0.40243902 0.52475248 0.4931934 0.40587861 0.545801950
## 1214 0.53658537 0.44306931 0.4770278 0.45423349 0.633182650
## 1215 0.47560976 0.53712871 0.4770278 0.58409211 0.467451338
## 1216 0.47560976 0.51732673 0.4878049 0.56545533 0.505887089
## 1217 0.40243902 0.54207921 0.4846852 0.46399812 0.263125727
## 1218 0.50000000 0.56683168 0.4946115 0.51812547 0.357451196
## 1219 0.43902439 0.54455446 0.4957459 0.36679722 0.492065440
## 1220 0.53658537 0.32425743 0.4849688 0.38243059 0.748609844
## 1221 0.56097561 0.32673267 0.4855360 0.49690847 0.550913134
## 1222 0.30487805 0.50495050 0.4846852 0.33653864 0.385908148
## 1223 0.46341463 0.39851485 0.4824163 0.50361504 0.389598233
## 1224 0.43902439 0.44801980 0.4923426 0.39171379 0.280271772
## 1225 0.34146341 0.53217822 0.4812819 0.46353908 0.661076947
## 1226 0.58536585 0.49504950 0.4934770 0.43251418 0.416180379
## 1227 0.56097561 0.54455446 0.4809983 0.58295186 0.477761343
## 1228 0.59756098 0.44554455 0.4997164 0.46580950 0.466835582
## 1229 0.46341463 0.53465347 0.4597277 0.35309245 0.324133317
## 1230 0.25609756 0.65841584 0.5000000 0.39362281 0.549671572
## 1231 0.46341463 0.66584158 0.5158820 0.46316736 0.467995903
## 1232 0.50000000 0.37376238 0.4985820 0.58529777 0.791994963
```

```
## 1233 0.59756098 0.49257426 0.4872377 0.52796910 0.553825951
## 1234 0.62195122 0.36881188 0.4517867 0.59262763 0.607920185
## 1235 0.47560976 0.51732673 0.4804311 0.66541251 0.595619741
## 1236 0.43902439 0.51237624 0.4946115 0.42833617 0.290840732
## 1237 0.46341463 0.44306931 0.4937606 0.42979423 0.671237795
## 1238 0.52439024 0.35396040 0.5022689 0.51263778 0.446996402
## 1239 0.46341463 0.46039604 0.4571753 0.52049158 0.040336680
## 1240 0.52439024 0.69059406 0.4747589 0.51674577 0.665379726
## 1241 0.58536585 0.41831683 0.4985820 0.51921071 0.543883676
## 1242 0.43902439 0.49009901 0.4767442 0.54471927 0.452107162
## 1243 0.25609756 0.50000000 0.4974475 0.29972846 0.472190190
## 1244 0.53658537 0.50000000 0.5022689 0.69225735 0.350457687
## 1245 0.34146341 0.39851485 0.4912082 0.55583144 0.538101852
## 1246 0.43902439 0.37128713 0.4750425 0.62310232 0.660460828
## 1247 0.36585366 0.57178218 0.4963131 0.39170873 0.451620075
## 1248 0.43902439 0.61138614 0.5090754 0.44706524 0.292624002
## 1249 0.53658537 0.35396040 0.4676687 0.51669329 0.226630624
## 1250 0.31707317 0.54702970 0.5005672 0.45835680 0.377153469
## 1251 0.43902439 0.29207921 0.4948951 0.48140345 0.372038273
## 1252 0.47560976 0.37871287 0.4906410 0.46281984 0.583243847
## 1253 0.56097561 0.44801980 0.4722065 0.58981464 0.562630447
## 1254 0.62195122 0.61138614 0.4526375 0.58715801 0.351851305
## 1255 0.46341463 0.38366337 0.4957459 0.54484798 0.496073208
## 1256 0.50000000 0.50742574 0.5107771 0.54529594 0.540426321
## 1257 0.59756098 0.34653465 0.4648327 0.62514459 0.505906742
## 1258 0.46341463 0.49009901 0.4971639 0.35306307 0.302142898
## 1259 0.65853659 0.46534653 0.4773114 0.63003436 0.537634472
## 1260 0.40243902 0.40841584 0.4809983 0.40590190 0.421399272
## 1261 0.56097561 0.43811881 0.4929098 0.49354511 0.344562990
## 1262 0.43902439 0.52227723 0.4846852 0.49339519 0.503649742
## 1263 0.62195122 0.45049505 0.4920590 0.55053777 0.484814549
## 1264 0.56097561 0.41584158 0.4980147 0.39473070 0.506203288
## 1265 0.50000000 0.47772277 0.4770278 0.59190071 0.599663733
## 1266 0.65853659 0.34158416 0.5031197 0.65821358 0.515257121
## 1267 0.43902439 0.52722772 0.5019853 0.52788762 0.308850878
## 1268 0.76829268 0.48514851 0.4648327 0.70338592 0.541344783
## 1269 0.47560976 0.53960396 0.4965967 0.51505497 0.421555630
## 1270 0.65853659 0.51485149 0.5113443 0.73481206 0.564173115
## 1271 0.41463415 0.47029703 0.4710720 0.59298274 0.407697102
## 1272 0.62195122 0.56188119 0.4781622 0.51509104 0.427231145
## 1273 0.46341463 0.64851485 0.4826999 0.58004286 0.511923906
## 1274 0.43902439 0.47772277 0.4912082 0.52300568 0.441513755
## 1275 0.40243902 0.41584158 0.4792967 0.57760926 0.695142948
## 1276 0.50000000 0.43811881 0.4361883 0.57166267 0.700542741
## 1277 0.47560976 0.50495050 0.4889393 0.34825617 0.640063816
## 1278 0.43902439 0.39356436 0.4784458 0.49220881 0.496916548
## 1279 0.34146341 0.70792079 0.5051049 0.33530850 0.457493961
## 1280 0.34146341 0.53712871 0.4917754 0.35460702 0.543060618
## 1281 0.43902439 0.44801980 0.4960295 0.39590483 0.278852264
## 1282 0.68292683 0.36881188 0.4713556 0.52148859 0.206097467
## 1283 0.62195122 0.36138614 0.4957459 0.52598513 0.417774905
## 1284 0.64634146 0.33910891 0.4835508 0.55955837 0.432669442
## 1285 0.50000000 0.40099010 0.4682360 0.63595454 0.577289521
## 1286 0.53658537 0.35148515 0.4807147 0.60490494 0.599195078
## 1287 0.64634146 0.31435644 0.5093590 0.49582975 0.435304434
## 1288 0.53658537 0.49257426 0.4693704 0.58181072 0.272491464
## 1289 0.58536585 0.44306931 0.5005672 0.45219555 0.677339373
## 1290 0.68292683 0.48019802 0.4878049 0.63099132 0.498617082
```

```
## 1291 0.52439024 0.40346535 0.4957459 0.38443030 0.633517325
## 1292 0.56097561 0.51980198 0.4639818 0.60448348 0.091490661
## 1293 0.37804878 0.43069307 0.4977311 0.36026537 0.274191753
## 1294 0.56097561 0.41336634 0.5002836 0.40897668 0.431196113
## 1295 0.50000000 0.58910891 0.4897901 0.45243673 0.417581842
## 1296 0.31707317 0.58168317 0.4909246 0.53881704 0.497489736
## 1297 0.34146341 0.33168317 0.4900737 0.48602611 0.398168611
## 1298 0.43902439 0.40346535 0.5175837 0.61334994 0.653160861
## 1299 0.59756098 0.32673267 0.4656835 0.59940410 0.318211099
## 1300 0.46341463 0.54207921 0.4804311 0.41846964 0.504604727
## 1301 0.56097561 0.48514851 0.5504821 0.49329039 0.431257725
## 1302 0.62195122 0.46782178 0.4605786 0.73017134 0.535434134
## 1303 0.50000000 0.15841584 0.4699376 0.66493090 0.490161971
## 1304 0.28048780 0.59653465 0.5090754 0.36917154 0.384721202
## 1305 0.46341463 0.48267327 0.4886557 0.50134246 0.474003685
## 1306 0.56097561 0.53217822 0.4900737 0.53495994 0.734112541
## 1307 0.40243902 0.40841584 0.4929098 0.29960907 0.492774173
## 1308 0.58536585 0.31683168 0.4736245 0.61721648 0.348498160
## 1309 0.41463415 0.31930693 0.4781622 0.66798470 0.470901713
## 1310 0.65853659 0.50000000 0.4863868 0.72899934 0.327598252
## 1311 0.62195122 0.59158416 0.4946115 0.44174021 0.486263870
## 1312 0.43902439 0.47524752 0.4951787 0.39444875 0.471732531
## 1313 0.58536585 0.45297030 0.5000000 0.45513724 0.579612217
## 1314 0.28048780 0.42574257 0.4869541 0.28888690 0.529622821
## 1315 0.31707317 0.44554455 0.4733409 0.44548905 0.591307679
## 1316 0.50000000 0.57425743 0.4841180 0.45722887 0.519390785
## 1317 0.43902439 0.50247525 0.4846852 0.53993114 0.361160358
## 1318 0.56097561 0.61386139 0.5462280 0.40348336 0.441118983
## 1319 0.50000000 0.28217822 0.4846852 0.43516948 0.662561151
## 1320 0.46341463 0.55445545 0.4733409 0.57162986 0.556896360
## 1321 0.58536585 0.31435644 0.4971639 0.38809878 0.551295190
## 1322 0.52439024 0.45544554 0.5572887 0.52775049 0.437338967
## 1323 0.47560976 0.46039604 0.4821327 0.52034089 0.242400277
## 1324 0.50000000 0.60396040 0.4631310 0.50179076 0.611441946
## 1325 0.52439024 0.32673267 0.4775950 0.45039856 0.385570393
## 1326 0.56097561 0.54455446 0.5187181 0.62219331 0.451395452
## 1327 0.68292683 0.32920792 0.4631310 0.57524913 0.592839634
## 1328 0.62195122 0.44306931 0.4855360 0.50777887 0.446504614
## 1329 0.64634146 0.56930693 0.4869541 0.38329509 0.439152975
## 1330 0.62195122 0.46534653 0.4841180 0.59873122 0.532794837
## 1331 0.31707317 0.65099010 0.4778786 0.47467884 0.301435123
## 1332 0.65853659 0.44059406 0.4914918 0.54723283 0.635126598
## 1333 0.62195122 0.45792079 0.4710720 0.65258945 0.506497070
## 1334 0.41463415 0.44059406 0.4770278 0.57276969 0.510281865
## 1335 0.47560976 0.46534653 0.4730573 0.57033288 0.390934594
## 1336 0.28048780 0.55940594 0.4903573 0.34584017 0.373751018
## 1337 0.43902439 0.54455446 0.4912082 0.36891033 0.488885535
## 1338 0.37804878 0.47277228 0.4875213 0.42709534 0.490458055
## 1339 0.43902439 0.44059406 0.4980147 0.53236195 0.278500961
## 1340 0.35365854 0.42574257 0.4770278 0.56665693 0.531508468
## 1341 0.59756098 0.57920792 0.4812819 0.45337149 0.348586200
## 1342 0.34146341 0.54455446 0.4594441 0.43888897 0.272501152
## 1343 0.37804878 0.50247525 0.4872377 0.43283682 0.348281867
## 1344 0.59756098 0.49257426 0.4699376 0.61456808 0.529039887
## 1345 0.56097561 0.41831683 0.4971639 0.52619171 0.469970237
## 1346 0.43902439 0.55693069 0.4736245 0.44554514 0.473694719
## 1347 0.65853659 0.48762376 0.4985820 0.49620685 0.404711678
## 1348 0.50000000 0.41584158 0.4878049 0.48979171 0.506155380
```

```
## 1349 0.58536585 0.43564356 0.4895065 0.44149342 0.476058979
## 1350 0.28048780 0.52475248 0.4861032 0.32325303 0.298895229
## 1351 0.31707317 0.56683168 0.4685196 0.47384638 0.389353427
## 1352 0.43902439 0.28712871 0.4982984 0.51469310 0.606931607
## 1353 0.59756098 0.41336634 0.4844016 0.49554648 0.423420619
## 1354 0.40243902 0.71039604 0.4832672 0.37336392 0.639613725
## 1355 0.40243902 0.60643564 0.4954623 0.51787937 0.707130754
## 1356 0.37804878 0.59405941 0.4815655 0.52498460 0.283369273
## 1357 0.50000000 0.64108911 0.4923426 0.57597496 0.358146009
## 1358 0.50000000 0.42821782 0.5036869 0.46417512 0.321943184
## 1359 0.34146341 0.64356436 0.5025525 0.42640465 0.575709590
## 1360 0.43902439 0.51237624 0.5048213 0.55875613 0.668730425
## 1361 0.50000000 0.60643564 0.4895065 0.40384628 0.472056768
## 1362 0.43902439 0.53960396 0.4869541 0.48871622 0.507646757
## 1363 0.30487805 0.45049505 0.5039705 0.33483958 0.588211043
## 1364 0.69512195 0.34653465 0.4807147 0.74576435 0.423991534
## 1365 0.63414634 0.31930693 0.4946115 0.65178899 0.572319633
## 1366 0.47560976 0.50000000 0.4787294 0.36855004 0.573173173
## 1367 0.56097561 0.53960396 0.4727737 0.53554225 0.416596398
## 1368 0.53658537 0.24504950 0.4937606 0.49963244 0.310231090
## 1369 0.53658537 0.58910891 0.4775950 0.72357764 0.317776988
## 1370 0.71951220 0.29950495 0.4812819 0.60032232 0.394760688
## 1371 0.43902439 0.47029703 0.4980147 0.39499755 0.535319951
## 1372 0.30487805 0.41831683 0.4985820 0.21859743 0.563672770
## 1373 0.46341463 0.61138614 0.4960295 0.50419610 0.271849274
## 1374 0.50000000 0.53465347 0.4954623 0.41504038 0.650050791
## 1375 0.59756098 0.45049505 0.4795803 0.75277236 0.304552822
## 1376 0.59756098 0.47772277 0.4866704 0.58806128 0.492645561
## 1377 0.47560976 0.46534653 0.4673851 0.41738623 0.566720274
## 1378 0.46341463 0.49504950 0.4832672 0.38589024 0.472821878
## 1379 0.43902439 0.43564356 0.4770278 0.37192107 0.596852417
## 1380 0.46341463 0.61138614 0.4849688 0.61605727 0.210355672
## 1381 0.35365854 0.48267327 0.4974475 0.44482080 0.486273166
## 1382 0.43902439 0.48762376 0.4906410 0.36919881 0.487092661
## 1383 0.31707317 0.29702970 0.4895065 0.43920760 0.656562565
## 1384 0.37804878 0.57425743 0.4795803 0.48389850 0.534891765
## 1385 0.40243902 0.42574257 0.4968803 0.42458537 0.582689345
## 1386 0.62195122 0.33910891 0.4809983 0.46955814 0.359778625
## 1387 0.31707317 0.55940594 0.4968803 0.34922346 0.376196694
## 1388 0.50000000 0.49504950 0.4920590 0.58599391 0.458832748
## 1389 0.50000000 0.24504950 0.4812819 0.69446793 0.596644395
## 1390 0.47560976 0.53217822 0.4872377 0.55006526 0.421747938
## 1391 0.56097561 0.46039604 0.4994328 0.52400186 0.412279420
## 1392 0.37804878 0.57178218 0.4861032 0.48646356 0.422244245
## 1393 0.52439024 0.49504950 0.4809983 0.66564683 0.658745212
## 1394 0.65853659 0.37871287 0.4841180 0.73544779 0.559941354
## 1395 0.50000000 0.34653465 0.4926262 0.43600724 0.594909253
## 1396 0.47560976 0.30198020 0.4781622 0.58335941 0.363206093
## 1397 0.56097561 0.30693069 0.5005672 0.45806098 0.397206266
## 1398 0.46341463 0.59653465 0.4688032 0.50413342 0.171587025
## 1399 0.37804878 0.60148515 0.4912082 0.37411356 0.553788641
## 1400 0.43902439 0.53465347 0.4965967 0.49573205 0.471053339
## 1401 0.68292683 0.33910891 0.4724901 0.53573403 0.580993148
## 1402 0.68292683 0.32178218 0.4673851 0.51702321 0.708964367
## 1403 0.53658537 0.44059406 0.4764606 0.73028436 0.407629783
## 1404 0.58536585 0.31435644 0.4897901 0.62896920 0.525042843
## 1405 0.62195122 0.61633663 0.4838344 0.64081728 0.412938620
## 1406 0.37804878 0.45792079 0.4960295 0.40899762 0.388067418
```

```
## 1407 0.69512195 0.35643564 0.4662507 0.59358703 0.518535052
## 1408 0.62195122 0.30445545 0.4906410 0.58474004 0.502804353
## 1409 0.30487805 0.58910891 0.4895065 0.26185603 0.532060722
## 1410 0.46341463 0.54702970 0.4912082 0.47963739 0.312455511
## 1411 0.50000000 0.53465347 0.4963131 0.41507531 0.624496868
## 1412 0.40243902 0.44801980 0.4838344 0.41242040 0.399826261
## 1413 0.59756098 0.43564356 0.4883721 0.46875294 0.483524184
## 1414 0.56097561 0.39851485 0.4866704 0.60399136 0.379720585
## 1415 0.47560976 0.61633663 0.4801475 0.59647207 0.302592551
## 1416 0.37804878 0.45297030 0.4900737 0.42606826 0.384497652
## 1417 0.71951220 0.36138614 0.4838344 0.61097107 0.462820239
## 1418 0.47560976 0.29455446 0.4764606 0.37758127 0.582845640
## 1419 0.47560976 0.47277228 0.4880885 0.44965361 0.571914796
## 1420 0.46341463 0.45049505 0.4824163 0.47971040 0.342344355
## 1421 0.56097561 0.42079208 0.4844016 0.42946247 0.655525176
## 1422 0.64634146 0.49257426 0.4917754 0.62454344 0.514669378
## 1423 0.59756098 0.34158416 0.4886557 0.52303018 0.685880226
## 1424 0.53658537 0.36386139 0.4770278 0.52992920 0.503462897
## 1425 0.50000000 0.51980198 0.4826999 0.52007575 0.440179788
## 1426 0.37804878 0.27722772 0.5328985 0.41050767 0.488958729
## 1427 0.28048780 0.34900990 0.4900737 0.41940747 0.465124742
## 1428 0.56097561 0.41584158 0.4861032 0.58725941 0.479103108
## 1429 0.43902439 0.28217822 0.4866704 0.41786432 0.503919629
## 1430 0.46341463 0.40594059 0.4923426 0.42088043 0.391791930
## 1431 0.74390244 0.30198020 0.4636982 0.61030880 0.551059039
## 1432 0.43902439 0.53960396 0.4787294 0.53818119 0.550951002
## 1433 0.37804878 0.52722772 0.4977311 0.57060760 0.274488100
## 1434 0.53658537 0.36138614 0.4713556 0.57141845 0.560012389
## 1435 0.57317073 0.33910891 0.4948951 0.62762839 0.316700668
## 1436 0.56097561 0.59900990 0.4940442 0.40648178 0.494715787
## 1437 0.50000000 0.36386139 0.4702212 0.62416069 0.514102249
## 1438 0.46341463 0.54455446 0.4982984 0.34505916 0.546145792
## 1439 0.68292683 0.35396040 0.4934770 0.48365586 0.449045359
## 1440 0.37804878 0.62623762 0.4821327 0.58870409 0.579281348
## 1441 0.58536585 0.54455446 0.4994328 0.43198877 0.643729778
## 1442 0.40243902 0.31435644 0.4965967 0.40159540 0.606260893
## 1443 0.56097561 0.34653465 0.4781622 0.48879738 0.348529488
## 1444 0.31707317 0.43069307 0.4861032 0.36040442 0.329286817
## 1445 0.56097561 0.53712871 0.4818491 0.63750473 0.337774592
## 1446 0.59756098 0.32425743 0.4690868 0.63599214 0.513924745
## 1447 0.31707317 0.55940594 0.4702212 0.56384349 0.312424370
## 1448 0.56097561 0.41831683 0.4844016 0.43548746 0.654320067
## 1449 0.71951220 0.45544554 0.4583097 0.66475788 0.507362685
## 1450 0.43902439 0.57178218 0.5141804 0.53339138 0.730242338
## 1451 0.53658537 0.30693069 0.4829836 0.59209267 0.556443805
## 1452 0.52439024 0.47772277 0.4900737 0.54007517 0.435267876
## 1453 0.50000000 0.46782178 0.5042541 0.36173256 0.620178675
## 1454 0.59756098 0.64356436 0.4929098 0.43031854 0.315729399
## 1455 0.50000000 0.32178218 0.4946115 0.46953105 0.692432312
## 1456 0.50000000 0.53217822 0.4719229 0.40013337 0.208185679
## 1457 0.64634146 0.45792079 0.4903573 0.43894674 0.462976019
## 1458 0.43902439 0.63861386 0.4767442 0.49553193 0.502466391
## 1459 0.43902439 0.35643564 0.4926262 0.49179842 0.269557368
## 1460 0.56097561 0.46782178 0.4855360 0.49559073 0.337568846
## 1461 0.59756098 0.31930693 0.4866704 0.49601080 0.208185679
## 1462 0.53658537 0.42079208 0.4923426 0.42122558 0.610176978
## 1463 0.50000000 0.46534653 0.4801475 0.56191198 0.507980492
## 1464 0.40243902 0.69059406 0.4863868 0.43357805 0.372091275
```

```
## 1465 0.25609756 0.43811881 0.5090754 0.39316035 0.619883101
## 1466 0.34146341 0.48762376 0.5085082 0.50421279 0.540831876
## 1467 0.50000000 0.50247525 0.4602950 0.42069401 0.364070048
## 1468 0.58536585 0.46534653 0.4900737 0.49880633 0.441299127
## 1469 0.13414634 0.35396040 0.4741917 0.16625487 0.497033516
## 1470 0.50000000 0.46287129 0.4676687 0.63471942 0.364936616
## 1471 0.53658537 0.57178218 0.4716393 0.52694562 0.451480680
## 1472 0.62195122 0.30198020 0.4648327 0.55917830 0.335452919
## 1473 0.43902439 0.48762376 0.5000000 0.40316314 0.550607785
## 1474 0.58536585 0.61881188 0.4872377 0.50593188 0.379506667
## 1475 0.50000000 0.46534653 0.5178673 0.38041111 0.663257365
## 1476 0.40243902 0.43316832 0.5153148 0.36225629 0.664253000
## 1477 0.43902439 0.52227723 0.4787294 0.36375151 0.314262195
## 1478 0.58536585 0.41831683 0.4977311 0.50931124 0.533273338
## 1479 0.13414634 0.41089109 0.4707884 0.09579686 0.520349293
## 1480 0.62195122 0.44801980 0.4733409 0.59296347 0.275761250
## 1481 0.50000000 0.51237624 0.4909246 0.33777704 0.546361690
## 1482 0.52439024 0.60396040 0.4713556 0.61066541 0.282801782
## 1483 0.59756098 0.35396040 0.4926262 0.51515352 0.602930556
## 1484 0.65853659 0.45544554 0.4809983 0.52955294 0.454483888
## 1485 0.58536585 0.34405941 0.4792967 0.49336430 0.373705592
## 1486 0.43902439 0.37128713 0.4821327 0.50364395 0.467866956
## 1487 0.53658537 0.37623762 0.4883721 0.56191198 0.587213117
## 1488 0.52439024 0.58415842 0.4963131 0.50387219 0.419424214
## 1489 0.41463415 0.47029703 0.4909246 0.38932966 0.582859521
## 1490 0.46341463 0.51485149 0.4841180 0.39507760 0.512197896
## 1491 0.58536585 0.55940594 0.4673851 0.55763834 0.492293724
## 1492 0.53658537 0.43316832 0.4869541 0.52281687 0.406600586
## 1493 0.46341463 0.52475248 0.4835508 0.53019755 0.594983582
## 1494 0.53658537 0.38118812 0.4753261 0.58498726 0.513054268
## 1495 0.31707317 0.57920792 0.4866704 0.53551446 0.496383551
## 1496 0.68292683 0.23019802 0.4648327 0.62139602 0.413271766
## 1497 0.52439024 0.60148515 0.4767442 0.51695598 0.314960210
## 1498 0.40243902 0.57673267 0.4889393 0.44045732 0.561358687
## 1499 0.47560976 0.40594059 0.4815655 0.56793241 0.413676286
## 1500 0.37804878 0.50000000 0.4855360 0.43838729 0.384712585
## 1501 0.43902439 0.48762376 0.4929098 0.58815644 0.560589526
## 1502 0.64634146 0.40346535 0.4767442 0.55516679 0.442538114
## 1503 0.56097561 0.34900990 0.4863868 0.60748990 0.617817163
## 1504 0.46341463 0.45792079 0.4841180 0.61913633 0.736686969
## 1505 0.43902439 0.56930693 0.4682360 0.53100464 0.292055928
## 1506 0.28048780 0.44059406 0.4940442 0.42215693 0.414774294
## 1507 0.35365854 0.52970297 0.4829836 0.57116572 0.452118723
## 1508 0.56097561 0.47524752 0.4679524 0.61133787 0.522824361
## 1509 0.34146341 0.64108911 0.4741917 0.48823674 0.567280809
## 1510 0.56097561 0.34158416 0.4696540 0.61504866 0.482335807
## 1511 0.59756098 0.32920792 0.4795803 0.57743535 0.548554798
## 1512 0.56097561 0.40346535 0.4900737 0.56139488 0.369750675
## 1513 0.43902439 0.52475248 0.4761770 0.38715217 0.520818711
## 1514 0.43902439 0.41089109 0.4784458 0.54719078 0.521173947
## 1515 0.69512195 0.51732673 0.4733409 0.78460866 0.401611668
## 1516 0.53658537 0.30940594 0.4829836 0.69339080 0.551157249
## 1517 0.68292683 0.56930693 0.4960295 0.45330584 0.431222312
## 1518 0.52439024 0.44801980 0.4923426 0.55489794 0.822628200
## 1519 0.53658537 0.43069307 0.4929098 0.60016977 0.539436802
## 1520 0.53658537 0.56435644 0.4829836 0.42788448 0.435444645
## 1521 0.50000000 0.46534653 0.4758934 0.57234693 0.590298061
## 1522 0.46341463 0.40099010 0.4778786 0.56930768 0.550297440
```

```
## 1523 0.18292683 0.54950495 0.4872377 0.12314953 0.548032949
## 1524 0.40243902 0.45792079 0.4849688 0.41984185 0.469632293
## 1525 0.52439024 0.41336634 0.4824163 0.54574235 0.539000796
## 1526 0.65853659 0.32920792 0.5014180 0.54331697 0.459646415
## 1527 0.58536585 0.37623762 0.4804311 0.58881932 0.549085346
## 1528 0.46341463 0.55940594 0.4889393 0.37826203 0.573234474
## 1529 0.53658537 0.41089109 0.4832672 0.62719702 0.575465215
## 1530 0.56097561 0.47524752 0.4909246 0.50966080 0.605909747
## 1531 0.37804878 0.49504950 0.4883721 0.41658082 0.442984024
## 1532 0.56097561 0.27227723 0.4591605 0.47252639 0.387101644
## 1533 0.36585366 0.51485149 0.4693704 0.54905188 0.374886992
## 1534 0.43902439 0.60891089 0.4412933 0.61005193 0.526972574
## 1535 0.53658537 0.52227723 0.4648327 0.70919942 0.505096592
## 1536 0.81707317 0.36633663 0.4713556 0.84084370 0.504369464
## 1537 0.41463415 0.58910891 0.4634146 0.43026034 0.545473757
## 1538 0.31707317 0.44801980 0.4971639 0.30359817 0.616118068
## 1539 0.50000000 0.45049505 0.4809983 0.69665325 0.579407273
## 1540 0.50000000 0.44801980 0.4758934 0.43134246 0.485593683
## 1541 0.62195122 0.48514851 0.4946115 0.52701781 0.520415653
## 1542 0.43902439 0.54455446 0.4977311 0.31072073 0.250201356
## 1543 0.34146341 0.64108911 0.4985820 0.37252145 0.427505614
## 1544 0.35365854 0.64603960 0.4943279 0.47313460 0.424463241
## 1545 0.53658537 0.49009901 0.4900737 0.38139736 0.334341573
## 1546 0.70731707 0.31683168 0.4676687 0.48430095 0.470578195
## 1547 0.46341463 0.49504950 0.4977311 0.42499339 0.470400661
## 1548 0.31707317 0.44801980 0.4605786 0.36980209 0.297559821
## 1549 0.43902439 0.39603960 0.4770278 0.47832247 0.529211300
## 1550 0.56097561 0.44059406 0.4912082 0.58394050 0.464522813
## 1551 0.62195122 0.34158416 0.4580261 0.59552641 0.303730493
## 1552 0.47560976 0.53217822 0.4767442 0.62981187 0.353388384
## 1553 0.50000000 0.37128713 0.5130459 0.53227566 0.515794660
## 1554 0.35365854 0.52722772 0.4821327 0.50068678 0.558377031
## 1555 0.50000000 0.40346535 0.4920590 0.50079730 0.378529994
## 1556 0.62195122 0.39108911 0.4940442 0.40612517 0.496925920
## 1557 0.40243902 0.65594059 0.5062394 0.43113555 0.263889412
## 1558 0.47560976 0.33910891 0.4540556 0.66369376 0.363246182
## 1559 0.37804878 0.45544554 0.5226886 0.33402726 0.508621281
## 1560 0.40243902 0.54455446 0.5334657 0.41598306 0.440811185
## 1561 0.80487805 0.61138614 0.4829836 0.80375779 0.370896443
## 1562 0.52439024 0.49504950 0.4963131 0.50011809 0.322091050
## 1563 0.59756098 0.49009901 0.4602950 0.77991792 0.430691389
## 1564 0.43902439 0.52475248 0.4895065 0.34886065 0.137692705
## 1565 0.50000000 0.53960396 0.5144640 0.49054892 0.592266816
## 1566 0.56097561 0.46287129 0.5019853 0.45498815 0.578859729
## 1567 0.47560976 0.48762376 0.4929098 0.43076905 0.440348912
## 1568 0.50000000 0.51732673 0.4753261 0.48903015 0.674011547
## 1569 0.62195122 0.47524752 0.4946115 0.37798393 0.404595650
## 1570 0.50000000 0.53712871 0.4693704 0.51644221 0.476211223
## 1571 0.53658537 0.43069307 0.5019853 0.57039164 0.550207657
## 1572 0.40243902 0.60148515 0.5005672 0.31710860 0.593294962
## 1573 0.75609756 0.36881188 0.5031197 0.73434117 0.631958732
## 1574 0.43902439 0.33168317 0.4923426 0.35714760 0.539567559
## 1575 0.53658537 0.43316832 0.4844016 0.51801522 0.407279296
## 1576 0.50000000 0.62128713 0.4583097 0.54445386 0.351441418
## 1577 0.63414634 0.44059406 0.5178673 0.50295304 0.716807474
## 1578 0.56097561 0.19306931 0.5328985 0.31404434 0.430654494
## 1579 0.75609756 0.30940594 0.4722065 0.83964257 0.423106873
## 1580 0.37804878 0.48762376 0.4977311 0.43465884 0.381537923
```

```
## 1581 0.56097561 0.35148515 0.5102099 0.46311476 0.649957740
## 1582 0.56097561 0.67821782 0.4642655 0.35849252 0.234561950
## 1583 0.47560976 0.56683168 0.5116279 0.49460061 0.646313616
## 1584 0.52439024 0.28465347 0.4826999 0.52686375 0.476403738
## 1585 0.47560976 0.43811881 0.4744753 0.66842020 0.505518191
## 1586 0.50000000 0.63861386 0.4682360 0.51087363 0.402940788
## 1587 0.56097561 0.53960396 0.4699376 0.52204999 0.490598280
## 1588 0.43902439 0.46039604 0.5062394 0.38592011 0.600488490
## 1589 0.71951220 0.42079208 0.4770278 0.53292596 0.463938015
## 1590 0.47560976 0.41831683 0.4968803 0.48310159 0.495200200
## 1591 0.64634146 0.62128713 0.4722065 0.53572892 0.273361088
## 1592 0.59756098 0.48267327 0.4739081 0.45955505 0.737950276
## 1593 0.47560976 0.41584158 0.4679524 0.59231006 0.369145101
## 1594 0.46341463 0.56683168 0.5150312 0.71375281 0.683830503
## 1595 0.43902439 0.52722772 0.5073738 0.60798244 0.407106469
## 1596 0.40243902 0.49009901 0.5110607 0.23258637 0.448803995
## 1597 0.56097561 0.39108911 0.4948951 0.60305221 0.532538384
## 1598 0.68292683 0.43069307 0.4628474 0.70003765 0.642798560
## 1599 0.40243902 0.45792079 0.4951787 0.33233564 0.449277877
## 1600 0.46341463 0.55693069 0.4934770 0.45229511 0.707340859
## 1601 0.37804878 0.46039604 0.4798639 0.43081504 0.527094226
## 1602 0.47560976 0.38366337 0.4943279 0.43248499 0.572232856
## 1603 0.59756098 0.30940594 0.5414067 0.51438867 0.603147434
## 1604 0.59756098 0.55198020 0.4866704 0.78109903 0.455414878
## 1605 0.50000000 0.26485149 0.5102099 0.65232306 0.802663857
## 1606 0.40243902 0.37871287 0.4946115 0.45665864 0.481351696
## 1607 0.50000000 0.56930693 0.4821327 0.46980461 0.433313026
## 1608 0.47560976 0.56683168 0.4929098 0.40222738 0.581024245
## 1609 0.63414634 0.48762376 0.4775950 0.55357195 0.439950269
## 1610 0.37804878 0.31683168 0.5059558 0.42759542 0.377803060
## 1611 0.37804878 0.30940594 0.4846852 0.40631197 0.482871897
## 1612 0.43902439 0.43564356 0.4784458 0.37550700 0.596250248
## 1613 0.47560976 0.58168317 0.4699376 0.65024454 0.318600632
## 1614 0.62195122 0.43069307 0.4832672 0.56543666 0.592685616
## 1615 0.34146341 0.55940594 0.4878049 0.44144263 0.438200973
## 1616 0.50000000 0.44306931 0.4730573 0.54934213 0.418826950
## 1617 0.34146341 0.52475248 0.4812819 0.40503045 0.373650133
## 1618 0.24390244 0.68316832 0.4441293 0.12111377 0.293097525
## 1619 0.65853659 0.57425743 0.4733409 0.52660778 0.521749742
## 1620 0.58536585 0.31930693 0.4835508 0.55830311 0.463240035
## 1621 0.59756098 0.42326733 0.4844016 0.55834091 0.243056269
## 1622 0.56097561 0.42326733 0.4821327 0.39307502 0.653153693
## 1623 0.43902439 0.40594059 0.4883721 0.34984524 0.563246538
## 1624 0.56097561 0.48514851 0.4710720 0.60919180 0.405193630
## 1625 0.62195122 0.36633663 0.4835508 0.51984966 0.468814997
## 1626 0.62195122 0.50495050 0.4736245 0.48608566 0.437649059
## 1627 0.40243902 0.42574257 0.4844016 0.40850233 0.630873910
## 1628 0.52439024 0.55693069 0.4804311 0.53230393 0.369476803
## 1629 0.31707317 0.59405941 0.4858196 0.36420814 0.398304298
## 1630 0.46341463 0.61138614 0.4849688 0.60928919 0.223291416
## 1631 0.52439024 0.46782178 0.4858196 0.61008162 0.325839048
## 1632 0.46341463 0.30940594 0.4614294 0.38883238 0.481459162
## 1633 0.62195122 0.21782178 0.4696540 0.47742429 0.388249602
## 1634 0.47560976 0.48019802 0.4866704 0.48839976 0.707954255
## 1635 0.37804878 0.42079208 0.4869541 0.43697833 0.173245683
## 1636 0.47560976 0.39851485 0.4920590 0.46189947 0.499388438
## 1637 0.43902439 0.48267327 0.4991492 0.34860938 0.396380011
## 1638 0.35365854 0.34158416 0.4730573 0.45247695 0.460530092
```

```
## 1639 0.56097561 0.47772277 0.4846852 0.51556020 0.430499965
## 1640 0.41463415 0.49752475 0.4960295 0.61248463 0.565777024
## 1641 0.56097561 0.30940594 0.4696540 0.70032688 0.435181467
## 1642 0.64634146 0.67574257 0.4948951 0.80173709 0.382649416
## 1643 0.30487805 0.56188119 0.4812819 0.26789707 0.248149726
## 1644 0.52439024 0.53960396 0.4739081 0.57211238 0.492350758
## 1645 0.71951220 0.29455446 0.4639818 0.63836622 0.619088747
## 1646 0.56097561 0.34900990 0.4781622 0.48895383 0.370764693
## 1647 0.69512195 0.28465347 0.5014180 0.82710864 0.496457055
## 1648 0.62195122 0.45049505 0.4532048 0.55704095 0.526668394
## 1649 0.56097561 0.63118812 0.4804311 0.57028478 0.310799247
## 1650 0.59756098 0.38613861 0.5104935 0.56871665 0.362125113
## 1651 0.59756098 0.57920792 0.4790130 0.54282720 0.317420741
## 1652 0.46341463 0.35891089 0.5073738 0.56485764 0.392825237
## 1653 0.15853659 0.49504950 0.4940442 0.28877087 0.436674630
## 1654 0.47560976 0.53465347 0.4858196 0.61953043 0.448871407
## 1655 0.46341463 0.57673267 0.4895065 0.52548701 0.621117052
## 1656 0.46341463 0.67326733 0.4671015 0.57218894 0.362273145
## 1657 0.40243902 0.59158416 0.4903573 0.41691386 0.387544323
## 1658 0.59756098 0.61386139 0.4954623 0.49519076 0.485402351
## 1659 0.43902439 0.50247525 0.4957459 0.44628604 0.524807504
## 1660 0.36585366 0.71039604 0.4954623 0.12590358 0.531684125
## 1661 0.37804878 0.32425743 0.5048213 0.40042833 0.600717653
## 1662 0.50000000 0.37376238 0.5019853 0.58336847 0.572480172
## 1663 0.46341463 0.38861386 0.4773114 0.46784394 0.365921689
## 1664 0.21951220 0.56930693 0.4968803 0.35244037 0.579851318
## 1665 0.47560976 0.26237624 0.4903573 0.57077577 0.415033649
## 1666 0.56097561 0.50742574 0.4696540 0.41483114 0.507630576
## 1667 0.37804878 0.48267327 0.4923426 0.38427676 0.646899504
## 1668 0.62195122 0.57920792 0.4801475 0.43808972 0.428835661
## 1669 0.43902439 0.43811881 0.5136132 0.41600960 0.464425747
## 1670 0.25609756 0.41336634 0.4875213 0.35300895 0.446839272
## 1671 0.50000000 0.30940594 0.4875213 0.54675810 0.519905248
## 1672 0.47560976 0.34158416 0.4897901 0.46256305 0.734973305
## 1673 0.21951220 0.49752475 0.4997164 0.31574321 0.339496120
## 1674 0.40243902 0.60643564 0.4804311 0.50357916 0.538907021
## 1675 0.46341463 0.40346535 0.4997164 0.43025324 0.456223278
## 1676 0.43902439 0.47772277 0.4290981 0.38631681 0.606609854
## 1677 0.52439024 0.47029703 0.4858196 0.45650345 0.543768947
## 1678 0.64634146 0.67574257 0.4861032 0.95765530 0.296106583
## 1679 0.68292683 0.47029703 0.4761770 0.66503766 0.311579294
## 1680 0.40243902 0.57920792 0.4892229 0.44646347 0.571390702
## 1681 0.58536585 0.37376238 0.4974475 0.49090308 0.459603724
## 1682 0.41463415 0.36881188 0.4875213 0.47676582 0.333888994
## 1683 0.62195122 0.48514851 0.4957459 0.52359480 0.515389829
## 1684 0.34146341 0.46534653 0.5124787 0.36674075 0.399755273
## 1685 0.37804878 0.55198020 0.3695406 0.25208136 0.390587103
## 1686 0.40243902 0.35891089 0.4900737 0.56095666 0.587463518
## 1687 0.59756098 0.44059406 0.4702212 0.61104899 0.497679253
## 1688 0.68292683 0.47524752 0.4892229 0.52168319 0.649727850
## 1689 0.46341463 0.56188119 0.4750425 0.47376580 0.453563239
## 1690 0.56097561 0.43316832 0.4787294 0.57255928 0.364045463
## 1691 0.46341463 0.24504950 0.4900737 0.50659406 0.700694985
## 1692 0.47560976 0.34405941 0.4917754 0.46229083 0.712813827
## 1693 0.35365854 0.44059406 0.4886557 0.37104168 0.421778141
## 1694 0.65853659 0.58168317 0.4719229 0.77205606 0.519905248
## 1695 0.43902439 0.45544554 0.4883721 0.38784537 0.457133344
## 1696 0.50000000 0.58168317 0.5164492 0.53938454 0.412002320
```

```
## 1697 0.34146341 0.64108911 0.4940442 0.44489655 0.585530420
## 1698 0.40243902 0.52475248 0.4906410 0.41887560 0.591531455
## 1699 0.36585366 0.72524752 0.4741917 0.23892816 0.359608236
## 1700 0.50000000 0.29950495 0.4929098 0.37042361 0.514564598
## 1701 0.52439024 0.62623762 0.4943279 0.48074418 0.292658704
## 1702 0.56097561 0.34653465 0.4770278 0.63393469 0.547613654
## 1703 0.52439024 0.41831683 0.4826999 0.31463207 0.320364480
## 1704 0.50000000 0.53465347 0.4671015 0.42468693 0.208665986
## 1705 0.41463415 0.51485149 0.4895065 0.47845723 0.504312982
## 1706 0.50000000 0.61138614 0.4673851 0.40610956 0.236667796
## 1707 0.31707317 0.49009901 0.4943279 0.42079982 0.389861336
## 1708 0.25609756 0.35148515 0.4532048 0.10876776 0.700682707
## 1709 0.62195122 0.31188119 0.4965967 0.64839362 0.368971038
## 1710 0.31707317 0.67326733 0.5002836 0.40433166 0.648831868
## 1711 0.50000000 0.55940594 0.4744753 0.58890212 0.442302334
## 1712 0.40243902 0.58168317 0.4906410 0.36847600 0.414667550
## 1713 0.34146341 0.49009901 0.3800340 0.31222350 0.333856977
## 1714 0.50000000 0.46782178 0.5002836 0.45557241 0.474460417
## 1715 0.31707317 0.65099010 0.4804311 0.46971841 0.453301084
## 1716 0.62195122 0.54207921 0.4750425 0.60312569 0.644157104
## 1717 0.56097561 0.43316832 0.4648327 0.66625552 0.429106932
## 1718 0.52439024 0.58910891 0.4863868 0.46366438 0.506616426
## 1719 0.40243902 0.44554455 0.4648327 0.62533728 0.560484126
## 1720 0.52439024 0.67326733 0.4858196 0.35574664 0.396116611
## 1721 0.36585366 0.53712871 0.5260919 0.45220722 0.493312700
## 1722 0.63414634 0.19554455 0.4608622 0.81490725 0.496238227
## 1723 0.59756098 0.64851485 0.4892229 0.32926892 0.306279249
## 1724 0.43902439 0.59405941 0.4878049 0.52868920 0.458246432
## 1725 0.56097561 0.55940594 0.4920590 0.60412012 0.523216554
## 1726 0.58536585 0.61633663 0.4926262 0.32877717 0.465927923
## 1727 0.62195122 0.41336634 0.4835508 0.65097449 0.524353340
## 1728 0.50000000 0.53712871 0.4739081 0.48469735 0.759478453
## 1729 0.43902439 0.66336634 0.4982984 0.31613621 0.432243850
## 1730 0.56097561 0.40346535 0.4863868 0.46061786 0.466153922
## 1731 0.28048780 0.65594059 0.3678389 0.30449785 0.353936910
## 1732 0.53658537 0.54702970 0.4798639 0.47844078 0.414168519
## 1733 0.75609756 0.45544554 0.4880885 0.73081178 0.300673903
## 1734 0.37804878 0.31435644 0.4866704 0.40048948 0.547770705
## 1735 0.50000000 0.43069307 0.4909246 0.47769744 0.410883327
## 1736 0.62195122 0.34653465 0.6199660 0.69584381 0.403907039
## 1737 0.43902439 0.31930693 0.4861032 0.48343988 0.556055732
## 1738 0.56097561 0.48267327 0.4812819 0.48077614 0.519546212
## 1739 0.59756098 0.29207921 0.5065230 0.78188965 0.315431663
## 1740 0.34146341 0.27475248 0.5039705 0.37500517 0.801252140
## 1741 0.69512195 0.39108911 0.5042541 0.39732385 0.661895157
## 1742 0.37804878 0.37871287 0.4651163 0.50729483 0.217800218
## 1743 0.56097561 0.50742574 0.4730573 0.56429851 0.408061809
## 1744 0.53658537 0.34653465 0.4739081 0.57641793 0.569574849
## 1745 0.50000000 0.54455446 0.4832672 0.42740389 0.397586139
## 1746 0.50000000 0.52722772 0.4946115 0.53211802 0.453889911
## 1747 0.59756098 0.47772277 0.4926262 0.49134532 0.260046001
## 1748 0.43902439 0.45297030 0.4937606 0.45524202 0.482605470
## 1749 0.40243902 0.25990099 0.4931934 0.32083849 0.590131001
## 1750 0.07317073 0.48762376 0.4829836 0.03256445 0.591148847
## 1751 0.53658537 0.25247525 0.4758934 0.64892990 0.536455576
## 1752 0.56097561 0.49752475 0.4583097 0.59135617 0.505746557
## 1753 0.59756098 0.50990099 0.4724901 0.57979029 0.341142479
## 1754 0.59756098 0.55445545 0.4075440 0.63930781 0.358116731
```

```
## 1755 0.64634146 0.58168317 0.4710720 0.49715556 0.441711663
## 1756 0.43902439 0.55693069 0.4869541 0.46077489 0.483615133
## 1757 0.37804878 0.49504950 0.4951787 0.35880535 0.296657003
## 1758 0.59756098 0.48762376 0.4937606 0.62788892 0.421337795
## 1759 0.43902439 0.57673267 0.4960295 0.46891716 0.415318486
## 1760 0.31707317 0.46782178 0.4844016 0.35056600 0.148185358
## 1761 0.50000000 0.51980198 0.4940442 0.48060328 0.192445702
## 1762 0.37804878 0.53217822 0.4801475 0.39011177 0.506341692
## 1763 0.59756098 0.53960396 0.4997164 0.49315284 0.553774778
## 1764 0.68292683 0.32178218 0.4903573 0.49084508 0.600123990
## 1765 0.50000000 0.38366337 0.5022689 0.34946233 0.591612167
## 1766 0.52439024 0.40594059 0.4384572 0.41232746 0.469233852
## 1767 0.46341463 0.52970297 0.5093590 0.66508784 0.626599960
## 1768 0.47560976 0.40099010 0.4934770 0.46026299 0.489219566
## 1769 0.62195122 0.61633663 0.4722065 0.69392370 0.425258319
## 1770 0.62195122 0.49257426 0.5090754 0.58345739 0.517452211
## 1771 0.34146341 0.36881188 0.4858196 0.48639769 0.611737526
## 1772 0.41463415 0.53712871 0.4747589 0.55044715 0.486492336
## 1773 0.41463415 0.40346535 0.4829836 0.58704521 0.458760255
## 1774 0.50000000 0.52227723 0.5017016 0.37473216 0.436367497
## 1775 0.40243902 0.37376238 0.5178673 0.37653945 0.577291556
## 1776 0.59756098 0.29207921 0.4994328 0.77569098 0.320682248
## 1777 0.43902439 0.50990099 0.4605786 0.55606387 0.356565013
## 1778 0.56097561 0.45049505 0.4929098 0.38651173 0.434929063
## 1779 0.40243902 0.42326733 0.4974475 0.35696549 0.518465026
## 1780 0.50000000 0.52970297 0.4790130 0.46902830 0.496426370
## 1781 0.46341463 0.64851485 0.4878049 0.53629913 0.480881531
## 1782 0.65853659 0.35643564 0.4761770 0.49179991 0.461443556
## 1783 0.58536585 0.39851485 0.4761770 0.55431317 0.333353075
## 1784 0.59756098 0.42326733 0.4526375 0.59525350 0.361464053
## 1785 0.68292683 0.37376238 0.5521838 0.60730310 0.458360615
## 1786 0.47560976 0.32920792 0.5028361 0.61050189 0.476548103
## 1787 0.46341463 0.57178218 0.4906410 0.48414311 0.460556341
## 1788 0.15853659 0.55693069 0.5082246 0.24003130 0.253359325
## 1789 0.53658537 0.30693069 0.4937606 0.47307815 0.687539055
## 1790 0.52439024 0.42821782 0.5190017 0.51105605 0.515838020
## 1791 0.46341463 0.32178218 0.5113443 0.39041279 0.500890775
## 1792 0.52439024 0.51732673 0.4622802 0.48802844 0.380297509
## 1793 0.56097561 0.39851485 0.4866704 0.67791865 0.472991484
## 1794 0.68292683 0.55940594 0.4968803 0.47436064 0.383790503
## 1795 0.47560976 0.54455446 0.4792967 0.51726626 0.450509474
## 1796 0.36585366 0.76732673 0.4869541 0.20194031 0.456222701
## 1797 0.59756098 0.42821782 0.4498015 0.60133537 0.512016241
## 1798 0.59756098 0.43069307 0.4676687 0.68300041 0.342335265
## 1799 0.50000000 0.45792079 0.4886557 0.53672046 0.391358822
## 1800 0.31707317 0.62376238 0.4804311 0.42363294 0.482363264
## 1801 0.80487805 0.21039604 0.5394214 0.73814598 0.466831043
## 1802 0.31707317 0.43811881 0.4824163 0.55984875 0.522811724
## 1803 0.56097561 0.36386139 0.4920590 0.43222155 0.406800289
## 1804 0.62195122 0.32425743 0.4855360 0.52949205 0.577402593
## 1805 0.47560976 0.44306931 0.4809983 0.60773867 0.467316194
## 1806 0.42682927 0.74257426 0.4997164 0.31591512 0.577453476
## 1807 0.53658537 0.38613861 0.4798639 0.60387811 0.453903607
## 1808 0.37804878 0.61881188 0.4030062 0.54155224 0.328942925
## 1809 0.58536585 0.60643564 0.4909246 0.36278592 0.429156119
## 1810 0.40243902 0.69059406 0.4733409 0.32905240 0.402126459
## 1811 0.41463415 0.31930693 0.4790130 0.67078690 0.483412825
## 1812 0.40243902 0.67326733 0.4707884 0.37904556 0.334868704
```

```
## 1813 0.43902439 0.38118812 0.5070902 0.38328392 0.518991784
## 1814 0.53658537 0.38861386 0.4750425 0.65845497 0.678162875
## 1815 0.56097561 0.38613861 0.4705048 0.43847463 0.430349451
## 1816 0.40243902 0.35643564 0.4903573 0.55944629 0.582249161
## 1817 0.53658537 0.44306931 0.5053885 0.57335983 0.432840716
## 1818 0.84146341 0.59900990 0.5104935 0.84147833 0.488674339
## 1819 0.53658537 0.67079208 0.4982984 0.40875120 0.422293540
## 1820 0.53658537 0.49009901 0.4705048 0.65861480 0.447180159
## 1821 0.52439024 0.39603960 0.4622802 0.46924481 0.398248460
## 1822 0.50000000 0.52970297 0.4790130 0.46786524 0.489535980
## 1823 0.46341463 0.56188119 0.5051049 0.45483285 0.195707109
## 1824 0.63414634 0.36881188 0.4937606 0.45138444 0.550810777
## 1825 0.40243902 0.61138614 0.4917754 0.48379442 0.241755479
## 1826 0.58536585 0.50495050 0.5096427 0.43091715 0.476293200
## 1827 0.37804878 0.58415842 0.4756098 0.45935331 0.435563213
## 1828 0.25609756 0.38861386 0.5130459 0.30540885 0.564229009
## 1829 0.31707317 0.52475248 0.4900737 0.44452797 0.454502785
## 1830 0.50000000 0.47277228 0.4673851 0.56322634 0.394345477
## 1831 0.46341463 0.74504950 0.4631310 0.45729155 0.350457687
## 1832 0.43902439 0.46534653 0.4926262 0.59194536 0.515409811
## 1833 0.56097561 0.55445545 0.4855360 0.45407805 0.567862104
## 1834 0.21951220 0.42326733 0.4591605 0.40668556 0.663109750
## 1835 0.37804878 0.51732673 0.4897901 0.48772051 0.374097027
## 1836 0.68292683 0.56683168 0.4977311 0.45143732 0.419919317
## 1837 0.71951220 0.47029703 0.4727737 0.83995950 0.365768254
## 1838 0.40243902 0.43316832 0.4977311 0.50374945 0.590844082
## 1839 0.58536585 0.63118812 0.4645491 0.45222213 0.341328368
## 1840 0.56097561 0.49504950 0.4988656 0.53287802 0.508528095
## 1841 0.47560976 0.51980198 0.4784458 0.58539717 0.433126173
## 1842 0.58536585 0.35891089 0.5019853 0.54251560 0.590229334
## 1843 0.43902439 0.47524752 0.4804311 0.47990909 0.370418109
## 1844 0.43902439 0.52227723 0.4872377 0.49757645 0.507674221
## 1845 0.43902439 0.35148515 0.4804311 0.47872040 0.438887224
## 1846 0.40243902 0.42079208 0.4855360 0.33325753 0.466858233
## 1847 0.50000000 0.36633663 0.4929098 0.53926729 0.322224625
## 1848 0.34146341 0.51980198 0.5068066 0.30886489 0.633403142
## 1849 0.52439024 0.64108911 0.4920590 0.63074958 0.398007637
## 1850 0.59756098 0.47524752 0.4764606 0.66996177 0.519905248
## 1851 0.43902439 0.58415842 0.4707884 0.62045605 0.361780034
## 1852 0.43902439 0.42574257 0.4948951 0.54587031 0.446948325
## 1853 0.40243902 0.53465347 0.4753261 0.61813720 0.260582985
## 1854 0.53658537 0.53465347 0.4906410 0.43814437 0.371073623
## 1855 0.43902439 0.41336634 0.4968803 0.39385594 0.696100171
## 1856 0.47560976 0.47524752 0.5124787 0.27998855 0.501772307
## 1857 0.46341463 0.32425743 0.4724901 0.68236010 0.552245384
## 1858 0.41463415 0.22029703 0.4631310 0.44657453 0.553296058
## 1859 0.65853659 0.29455446 0.4917754 0.51767930 0.370090445
## 1860 0.21951220 0.59653465 0.4943279 0.33069171 0.355294362
## 1861 0.58536585 0.45792079 0.4960295 0.53097585 0.507311360
## 1862 0.50000000 0.56435644 0.5059558 0.29391195 0.551606848
## 1863 0.37804878 0.54950495 0.4597277 0.35013100 0.535996035
## 1864 0.28048780 0.57425743 0.4943279 0.40034993 0.494596830
## 1865 0.41463415 0.37128713 0.4767442 0.47720880 0.326377223
## 1866 0.47560976 0.35396040 0.4688032 0.55899209 0.489616706
## 1867 0.43902439 0.37376238 0.4869541 0.50947769 0.606070625
## 1868 0.56097561 0.31435644 0.4412933 0.52609834 0.520631867
## 1869 0.65853659 0.44554455 0.4676687 0.73002393 0.479495699
## 1870 0.50000000 0.60891089 0.4960295 0.68257358 0.407715795
```

```
## 1871 0.37804878 0.51732673 0.4784458 0.50367301 0.400185743
## 1872 0.53658537 0.45544554 0.4875213 0.53324861 0.608811124
## 1873 0.40243902 0.57673267 0.4736245 0.54306412 0.386223383
## 1874 0.53658537 0.55940594 0.4821327 0.44659659 0.450120390
## 1875 0.28048780 0.40594059 0.4705048 0.49258254 0.435464466
## 1876 0.47560976 0.50495050 0.4866704 0.49975855 0.451181655
## 1877 0.43902439 0.52475248 0.4753261 0.59741843 0.525253819
## 1878 0.43902439 0.41089109 0.5209870 0.48786817 0.433374397
## 1879 0.36585366 0.50495050 0.5039705 0.50125863 0.513957657
## 1880 0.47560976 0.32920792 0.4574589 0.57073594 0.276094735
## 1881 0.53658537 0.51732673 0.4560408 0.70662321 0.419548881
## 1882 0.47560976 0.37871287 0.4753261 0.51173504 0.679470789
## 1883 0.43902439 0.63118812 0.4795803 0.34811323 0.380877446
## 1884 0.52439024 0.60396040 0.4812819 0.61874747 0.340215969
## 1885 0.50000000 0.34653465 0.4926262 0.44258879 0.592529568
## 1886 0.56097561 0.40841584 0.4917754 0.48353071 0.555731841
## 1887 0.37804878 0.63613861 0.4427113 0.50734124 0.438454713
## 1888 0.59756098 0.50990099 0.4863868 0.59191569 0.325846210
## 1889 0.59756098 0.38613861 0.4872377 0.62932414 0.498846923
## 1890 0.28048780 0.57178218 0.4529212 0.43878565 0.417949123
## 1891 0.46341463 0.61138614 0.4849688 0.60057462 0.240938722
## 1892 0.57317073 0.43564356 0.5008508 0.49903687 0.593758807
## 1893 0.46341463 0.55198020 0.4923426 0.47100042 0.366074407
## 1894 0.86585366 0.26980198 0.4713556 0.71468907 0.443329760
## 1895 0.46341463 0.59653465 0.4841180 0.43309010 0.517688444
## 1896 0.37804878 0.73762376 0.4929098 0.37971386 0.435275500
## 1897 0.71951220 0.44801980 0.4773114 0.55989829 0.366812205
## 1898 0.59756098 0.53217822 0.4880885 0.54525329 0.404082172
## 1899 0.65853659 0.22524752 0.4917754 0.63141006 0.446629553
## 1900 0.50000000 0.51732673 0.4787294 0.64798755 0.325794161
## 1901 0.56097561 0.66584158 0.4580261 0.47620712 0.147801163
## 1902 0.40243902 0.39603960 0.4849688 0.47375924 0.301640066
## 1903 0.50000000 0.46782178 0.4861032 0.40919608 0.528377626
## 1904 0.46341463 0.46287129 0.4968803 0.39052370 0.510494505
## 1905 0.53658537 0.41089109 0.4804311 0.47522674 0.323116767
## 1906 0.50000000 0.40594059 0.4792967 0.46379439 0.485984544
## 1907 0.56097561 0.56188119 0.4844016 0.49543004 0.344738157
## 1908 0.58536585 0.60891089 0.5036869 0.52308328 0.813963525
## 1909 0.68292683 0.28712871 0.4832672 0.55247602 0.372159376
## 1910 0.59756098 0.36138614 0.4863868 0.51282213 0.617985108
## 1911 0.50000000 0.31930693 0.4886557 0.47353610 0.681810014
## 1912 0.42682927 0.55693069 0.5087918 0.20824842 0.403646201
## 1913 0.56097561 0.59653465 0.4560408 0.53395926 0.478755826
## 1914 0.63414634 0.45049505 0.4951787 0.63906866 0.610453159
## 1915 0.58536585 0.62871287 0.4946115 0.56169270 0.442757261
## 1916 0.36585366 0.54950495 0.4639818 0.48932934 0.343289318
## 1917 0.46341463 0.47524752 0.5028361 0.40524868 0.379313779
## 1918 0.53658537 0.34900990 0.4753261 0.62406578 0.554102086
## 1919 0.62195122 0.28712871 0.4634146 0.63509762 0.343653223
## 1920 0.62195122 0.45297030 0.4923426 0.50371486 0.436293510
## 1921 0.53658537 0.25247525 0.4705048 0.57526883 0.461408422
## 1922 0.09756098 0.39108911 0.4191719 0.05833167 0.429997074
## 1923 0.50000000 0.56930693 0.5062394 0.38094328 0.443735176
## 1924 0.28048780 0.28712871 0.4753261 0.58147206 0.588415043
## 1925 0.43902439 0.70297030 0.4642655 0.54991976 0.402556272
## 1926 0.34146341 0.30445545 0.5036869 0.53551494 0.502377157
## 1927 0.28048780 0.54950495 0.4912082 0.39309107 0.323631173
## 1928 0.62195122 0.33663366 0.5062394 0.47527658 0.471948391
```

```
## 1929 0.58536585 0.52227723 0.4461146 0.62744868 0.279919465
## 1930 0.46341463 0.53217822 0.5277935 0.29338382 0.579360252
## 1931 0.87804878 0.35891089 0.4733409 0.92162567 0.492149123
## 1932 0.56097561 0.45792079 0.4724901 0.53819929 0.520536428
## 1933 0.47560976 0.48019802 0.4648327 0.48775122 0.358415745
## 1934 0.50000000 0.30198020 0.5331821 0.40840310 0.503712023
## 1935 0.52439024 0.65594059 0.4804311 0.62806310 0.621770024
## 1936 0.62195122 0.34405941 0.4826999 0.61843752 0.501171496
## 1937 0.46341463 0.46534653 0.4954623 0.49870064 0.398148117
## 1938 0.57317073 0.38366337 0.4512195 0.58605005 0.199179147
## 1939 0.37804878 0.63118812 0.4940442 0.52287164 0.447321616
## 1940 0.28048780 0.65594059 0.5002836 0.42712864 0.413958518
## 1941 0.43902439 0.56188119 0.4931934 0.42516670 0.489653287
## 1942 0.40243902 0.69306931 0.4790130 0.29979836 0.395842944
## 1943 0.56097561 0.68811881 0.4492343 0.43567203 0.495358410
## 1944 0.43902439 0.35396040 0.4946115 0.66182021 0.550377279
## 1945 0.50000000 0.42079208 0.5119115 0.42874886 0.641534292
## 1946 0.63414634 0.44059406 0.5147476 0.49954584 0.658098050
## 1947 0.43902439 0.35396040 0.4943279 0.42980878 0.468162323
## 1948 0.59756098 0.35148515 0.4812819 0.61252559 0.418759877
## 1949 0.19512195 0.32178218 0.4262621 0.13435999 0.495021973
## 1950 0.31707317 0.48762376 0.4940442 0.41382927 0.401048546
## 1951 0.71951220 0.47029703 0.5042541 0.51551217 0.454384192
## 1952 0.62195122 0.37128713 0.4895065 0.65404313 0.380944997
## 1953 0.53658537 0.28960396 0.5178673 0.47905413 0.691449283
## 1954 0.71951220 0.40099010 0.4923426 0.62510861 0.548512995
## 1955 0.52439024 0.34405941 0.4883721 0.49510173 0.490014220
## 1956 0.53658537 0.32425743 0.4826999 0.49967757 0.430463445
## 1957 0.47560976 0.49752475 0.4764606 0.37636670 0.499479179
## 1958 0.40243902 0.41089109 0.4914918 0.48520108 0.531263016
## 1959 0.68292683 0.38118812 0.4869541 0.52464163 0.486015735
## 1960 0.34146341 0.43564356 0.5178673 0.22250595 0.505251764
## 1961 0.43902439 0.41831683 0.4767442 0.67066063 0.420284724
## 1962 0.43902439 0.50000000 0.5087918 0.50399917 0.481870499
## 1963 0.09756098 0.42326733 0.4248440 0.08740010 0.508057512
## 1964 0.25609756 0.58910891 0.4696540 0.43783717 0.466619851
## 1965 0.28048780 0.60148515 0.4863868 0.31251416 0.357293933
## 1966 0.46341463 0.37376238 0.4889393 0.31514120 0.565854796
## 1967 0.56097561 0.50000000 0.4895065 0.62173122 0.367506382
## 1968 0.65853659 0.45544554 0.4832672 0.53050228 0.458310760
## 1969 0.47560976 0.20297030 0.5277935 0.48378068 0.653180376
## 1970 0.21951220 0.28712871 0.4177538 0.08699844 0.407470512
## 1971 0.46341463 0.49257426 0.4903573 0.54561536 0.368006389
## 1972 0.52439024 0.55693069 0.4818491 0.53853015 0.376266353
## 1973 0.34146341 0.52475248 0.4600113 0.35166577 0.386971156
## 1974 0.53658537 0.32425743 0.4855360 0.40729501 0.686133584
## 1975 0.46341463 0.49257426 0.4846852 0.48512177 0.276735774
## 1976 0.62195122 0.53960396 0.4815655 0.63424637 0.471948391
## 1977 0.65853659 0.68316832 0.4756098 0.61260021 0.329592248
## 1978 0.50000000 0.55445545 0.4696540 0.53418898 0.474795630
## 1979 0.59756098 0.41336634 0.4869541 0.61097165 0.424264533
## 1980 0.28048780 0.35396040 0.4529212 0.09389589 0.413830635
## 1981 0.50000000 0.20792079 0.4756098 0.55223766 0.371467358
## 1982 0.41463415 0.25742574 0.4809983 0.45158446 0.656183364
## 1983 0.74390244 0.31683168 0.4841180 0.55241916 0.667958521
## 1984 0.46341463 0.58415842 0.4764606 0.47557268 0.472216057
## 1985 0.43902439 0.54455446 0.4880885 0.41805626 0.392052590
## 1986 0.62195122 0.39851485 0.4906410 0.50614575 0.573114522
```

```
## 1987 0.53658537 0.06930693 0.4974475 0.61171146 0.538555136
## 1988 0.65853659 0.60396040 0.4883721 0.52763341 0.548717524
## 1989 0.62195122 0.51485149 0.4824163 0.68911104 0.723067931
## 1990 0.59756098 0.55693069 0.4778786 0.47504520 0.404602525
## 1991 0.63414634 0.29455446 0.4982984 0.42622759 0.641918420
## 1992 0.35365854 0.58663366 0.4861032 0.61132468 0.487463844
## 1993 0.50000000 0.55693069 0.4909246 0.53931014 0.531496522
## 1994 0.37804878 0.39851485 0.5181509 0.31262107 0.703168950
## 1995 0.21951220 0.66089109 0.4931934 0.31286123 0.441118983
## 1996 0.52439024 0.40346535 0.4795803 0.38716609 0.417736292
## 1997 0.53658537 0.36138614 0.4719229 0.47763020 0.318886090
## 1998 0.19512195 0.58910891 0.4858196 0.31275357 0.423922631
## 1999 0.65853659 0.30198020 0.5167328 0.61245864 0.498804231
## 2000 0.62195122 0.44059406 0.4974475 0.63634119 0.362410570
## 2001 0.52439024 0.62623762 0.4826999 0.49998493 0.534569176
## 2002 0.64634146 0.42821782 0.5087918 0.56475466 0.418105920
## 2003 0.43902439 0.39603960 0.5062394 0.41921475 0.772931350
## 2004 0.41463415 0.38118812 0.5025525 0.48459744 0.655870841
## 2005 0.52439024 0.51980198 0.4815655 0.25411302 0.347934430
## 2006 0.62195122 0.58415842 0.4923426 0.38496546 0.421373542
## 2007 0.50000000 0.47029703 0.4679524 0.66170840 0.381287095
## 2008 0.56097561 0.45792079 0.4648327 0.66115791 0.490197142
## 2009 0.68292683 0.39603960 0.4900737 0.50922943 0.380903860
## 2010 0.58536585 0.32920792 0.4736245 0.67698550 0.584738725
## 2011 0.65853659 0.27722772 0.4605786 0.62614896 0.293581124
## 2012 0.50000000 0.40099010 0.4668179 0.58820235 0.342873021
## 2013 0.40243902 0.50990099 0.4849688 0.41011033 0.483505207
## 2014 0.31707317 0.57673267 0.5036869 0.34035688 0.423317035
## 2015 0.53658537 0.49504950 0.4770278 0.49721008 0.422965719
## 2016 0.52439024 0.39603960 0.5011344 0.54492824 0.504827016
## 2017 0.28048780 0.57425743 0.4920590 0.49755967 0.422729512
## 2018 0.53658537 0.25247525 0.4682360 0.57338724 0.463691555
## 2019 0.40243902 0.38613861 0.5019853 0.28127369 0.519362340
## 2020 0.43902439 0.45544554 0.4608622 0.51786034 0.530894552
## 2021 0.30487805 0.61138614 0.4963131 0.13159549 0.355861858
## 2022 0.43902439 0.46287129 0.4909246 0.43605349 0.354901147
## 2023 0.41463415 0.49257426 0.4733409 0.57780764 0.455777480
## 2024 0.53658537 0.46782178 0.4665343 0.59879388 0.332750540
## 2025 0.47560976 0.57920792 0.5238230 0.44487730 0.631535914
## 2026 0.25609756 0.59158416 0.4798639 0.44744511 0.478245985
## 2027 0.37804878 0.46039604 0.5002836 0.46748262 0.500528377
## 2028 0.75609756 0.42574257 0.4682360 0.83353025 0.408516547
## 2029 0.68292683 0.39603960 0.4892229 0.67178428 0.421947755
## 2030 0.40243902 0.41336634 0.5022689 0.37478677 0.324388832
## 2031 0.46341463 0.43316832 0.5127623 0.44889897 0.436968095
## 2032 0.31707317 0.46287129 0.4977311 0.30755281 0.278094618
## 2033 0.53658537 0.26980198 0.4446965 0.55323710 0.463118135
## 2034 0.50000000 0.48514851 0.5000000 0.55897514 0.279432117
## 2035 0.46341463 0.35148515 0.4739081 0.30124845 0.297743259
## 2036 0.40243902 0.37871287 0.4872377 0.44550657 0.483169295
## 2037 0.41463415 0.42079208 0.4775950 0.60961176 0.520447133
## 2038 0.34146341 0.53217822 0.5036869 0.37123800 0.502060836
## 2039 0.50000000 0.53465347 0.4761770 0.62972408 0.381380688
## 2040 0.68292683 0.43316832 0.4639818 0.58232353 0.501627918
## 2041 0.56097561 0.47277228 0.4914918 0.51534328 0.542668180
## 2042 0.46341463 0.44306931 0.4965967 0.48002230 0.433712082
## 2043 0.56097561 0.39603960 0.5042541 0.51764163 0.466952885
## 2044 0.50000000 0.32178218 0.4937606 0.36644614 0.428147693
```

```
## 2045 0.53658537 0.57920792 0.4844016 0.61602629 0.437964977
## 2046 0.43902439 0.56930693 0.4719229 0.52826362 0.530012284
## 2047 0.21951220 0.47524752 0.4934770 0.24213683 0.453902403
## 2048 0.43902439 0.50990099 0.4841180 0.43321041 0.385211607
## 2049 0.46341463 0.65099010 0.5337493 0.52486865 0.410132081
## 2050 0.56097561 0.52722772 0.4790130 0.36460791 0.354422921
## 2051 0.57317073 0.42079208 0.4761770 0.59928768 0.526464864
## 2052 0.29268293 0.48019802 0.5096427 0.33286231 0.554137609
## 2053 0.46341463 0.48019802 0.4900737 0.54325919 0.431984344
## 2054 0.31707317 0.56683168 0.4713556 0.48426635 0.403226710
## 2055 0.37804878 0.63613861 0.4750425 0.53305233 0.443917758
## 2056 0.46341463 0.44059406 0.4872377 0.32843605 0.521401830
## 2057 0.43902439 0.43564356 0.4809983 0.38492128 0.568393777
## 2058 0.63414634 0.48762376 0.4869541 0.61008009 0.541031310
## 2059 0.52439024 0.55198020 0.4784458 0.56234162 0.364117021
## 2060 0.65853659 0.47524752 0.4878049 0.69006909 0.516047973
## 2061 0.31707317 0.44306931 0.4744753 0.32932445 0.530599171
## 2062 0.50000000 0.58910891 0.4858196 0.61143971 0.454620049
## 2063 0.50000000 0.33415842 0.4815655 0.34920476 0.598906640
## 2064 0.53658537 0.44554455 0.4855360 0.52123178 0.660361307
## 2065 0.52439024 0.46039604 0.4861032 0.67533832 0.524676465
## 2066 0.28048780 0.56435644 0.4826999 0.50246031 0.373854820
## 2067 0.35365854 0.59653465 0.4838344 0.44054771 0.494541399
## 2068 0.37804878 0.33910891 0.4826999 0.34779427 0.283027440
## 2069 0.50000000 0.58910891 0.4880885 0.59481454 0.389736636
## 2070 0.52439024 0.54455446 0.5110607 0.55778844 0.500158307
## 2071 0.65853659 0.28712871 0.4679524 0.62572331 0.448770699
## 2072 0.56097561 0.34405941 0.4795803 0.57794881 0.474233482
## 2073 0.59756098 0.31930693 0.4960295 0.67214756 0.678619607
## 2074 0.86585366 0.52475248 0.5161656 0.80380791 0.427814182
## 2075 0.56097561 0.62376238 0.4863868 0.52593532 0.678162875
## 2076 0.37804878 0.61386139 0.4821327 0.48361877 0.389309285
## 2077 0.43902439 0.48267327 0.4764606 0.47520343 0.522180241
## 2078 0.43902439 0.29455446 0.4954623 0.53289780 0.595918497
## 2079 0.34146341 0.36633663 0.4858196 0.48870398 0.614846205
## 2080 0.75609756 0.48019802 0.4617130 0.53445316 0.599034061
## 2081 0.59756098 0.44801980 0.4997164 0.40685715 0.501781343
## 2082 0.50000000 0.61881188 0.4563244 0.70480995 0.476515711
## 2083 0.37804878 0.46287129 0.4744753 0.49004938 0.529801107
## 2084 0.41463415 0.30693069 0.4750425 0.44198505 0.498680644
## 2085 0.47560976 0.44801980 0.4977311 0.53647743 0.497343984
## 2086 0.40243902 0.42574257 0.4977311 0.47876444 0.285231456
## 2087 0.40243902 0.49257426 0.4903573 0.32393819 0.379182013
## 2088 0.43902439 0.31930693 0.4577425 0.49486238 0.386311147
## 2089 0.43902439 0.55445545 0.5011344 0.50811510 0.764185486
## 2090 0.15853659 0.40594059 0.4611458 0.06611255 0.391574704
## 2091 0.43902439 0.46287129 0.5022689 0.41472417 0.413656005
## 2092 0.71951220 0.46782178 0.4668179 0.81507862 0.511326299
## 2093 0.43902439 0.49257426 0.4917754 0.49416628 0.592409512
## 2094 0.47560976 0.47524752 0.5059558 0.29293954 0.474628719
## 2095 0.53658537 0.30693069 0.4931934 0.47979491 0.697428098
## 2096 0.37804878 0.26732673 0.4994328 0.31650698 0.574057599
## 2097 0.46341463 0.52227723 0.4809983 0.39112289 0.415998725
## 2098 0.59756098 0.53217822 0.4741917 0.49348528 0.621107436
## 2099 0.56097561 0.55445545 0.4920590 0.42607967 0.337744222
## 2100 0.47560976 0.31683168 0.4441293 0.46689122 0.492125933
## 2101 0.59756098 0.41584158 0.4897901 0.46800566 0.442824794
## 2102 0.56097561 0.33910891 0.4980147 0.43643292 0.470628288
```

```
## 2103 0.47560976 0.36881188 0.4838344 0.45075881 0.588257549
## 2104 0.62195122 0.46782178 0.4883721 0.58957959 0.524789080
## 2105 0.64634146 0.67326733 0.5082246 0.91062589 0.349515899
## 2106 0.40243902 0.35396040 0.4914918 0.46855783 0.614790036
## 2107 0.71951220 0.52970297 0.4943279 0.52095229 0.495816320
## 2108 0.50000000 0.45792079 0.4909246 0.57345879 0.609940379
## 2109 0.46341463 0.47524752 0.4747589 0.49113487 0.559081891
## 2110 0.46341463 0.49504950 0.4906410 0.29048718 0.442555479
## 2111 0.56097561 0.66336634 0.4812819 0.58765454 0.295585748
## 2112 0.23170732 0.43316832 0.4954623 0.49413464 0.493597387
## 2113 0.47560976 0.30693069 0.4727737 0.57732462 0.487105126
## 2114 0.62195122 0.47772277 0.4931934 0.57338511 0.392861645
## 2115 0.56097561 0.39356436 0.4872377 0.54917258 0.504985337
## 2116 0.58536585 0.43811881 0.4912082 0.49507140 0.385693435
## 2117 0.68292683 0.44801980 0.4727737 0.62063071 0.509685702
## 2118 0.46341463 0.52475248 0.4886557 0.53164912 0.624255255
## 2119 0.46341463 0.53465347 0.4773114 0.38651173 0.350762175
## 2120 0.80487805 0.49257426 0.4795803 0.71155269 0.276404631
## 2121 0.62195122 0.47277228 0.4878049 0.51113607 0.532190211
## 2122 0.57317073 0.20544554 0.4878049 0.73012208 0.477727807
## 2123 0.40243902 0.40099010 0.4835508 0.39457726 0.345514515
## 2124 0.64634146 0.32425743 0.4914918 0.60225473 0.524193616
## 2125 0.21951220 0.41831683 0.4929098 0.37580169 0.484415354
## 2126 0.41463415 0.48514851 0.4744753 0.61251955 0.442417315
## 2127 0.31707317 0.64108911 0.5005672 0.30668973 0.511462626
## 2128 0.56097561 0.63366337 0.4750425 0.42971474 0.265432353
## 2129 0.41463415 0.55940594 0.4832672 0.57489169 0.430580201
## 2130 0.50000000 0.58910891 0.5017016 0.50897865 0.527258475
## 2131 0.53658537 0.54207921 0.4878049 0.46171529 0.575188846
## 2132 0.43902439 0.31683168 0.4787294 0.50539047 0.545944220
## 2133 0.15853659 0.58415842 0.5053885 0.33773689 0.478333658
## 2134 0.43902439 0.67574257 0.5039705 0.40727309 0.501079947
## 2135 0.40243902 0.56930693 0.4849688 0.45895293 0.484241356
## 2136 0.64634146 0.50495050 0.4719229 0.55480138 0.464122414
## 2137 0.59756098 0.44306931 0.4707884 0.60693856 0.532289488
## 2138 0.40243902 0.50495050 0.4912082 0.45718043 0.256465030
## 2139 0.31707317 0.43564356 0.4957459 0.34909660 0.699833605
## 2140 0.57317073 0.40841584 0.4863868 0.71256638 0.432872434
## 2141 0.34146341 0.45544554 0.4747589 0.28713693 0.324656656
## 2142 0.58536585 0.32425743 0.5005672 0.53636521 0.531499636
## 2143 0.59756098 0.41584158 0.4622802 0.68931411 0.506699736
## 2144 0.31707317 0.48019802 0.5017016 0.44451580 0.547449699
## 2145 0.58536585 0.52227723 0.4770278 0.52792689 0.357859513
## 2146 0.50000000 0.46782178 0.4900737 0.56227329 0.566750481
## 2147 0.53658537 0.30693069 0.4758934 0.41932175 0.505147902
## 2148 0.58536585 0.41089109 0.4795803 0.58153052 0.468963343
## 2149 0.68292683 0.43316832 0.4648327 0.68914557 0.661720524
## 2150 0.34146341 0.56188119 0.4889393 0.38754223 0.440700484
## 2151 0.24390244 0.68564356 0.4773114 0.14639831 0.360277424
## 2152 0.50000000 0.36386139 0.4861032 0.54965842 0.453642279
## 2153 0.65853659 0.29207921 0.4906410 0.49384786 0.576591466
## 2154 0.40243902 0.28960396 0.4741917 0.31316593 0.444385309
## 2155 0.35365854 0.51980198 0.5073738 0.34280176 0.408005915
## 2156 0.28048780 0.56435644 0.4824163 0.36166128 0.401818527
## 2157 0.47560976 0.47277228 0.4869541 0.46355897 0.570141242
## 2158 0.43902439 0.49009901 0.4844016 0.38267716 0.394521060
## 2159 0.59756098 0.48762376 0.4861032 0.58188420 0.526793715
## 2160 0.37804878 0.57178218 0.4866704 0.49126043 0.495984443
```

```
## 2161 0.46341463 0.36633663 0.4900737 0.57724810 0.665088646
## 2162 0.43902439 0.71534653 0.4824163 0.50915726 0.651189855
## 2163 0.50000000 0.46534653 0.4790130 0.57760398 0.596725224
## 2164 0.43902439 0.29950495 0.4787294 0.60877924 0.519255426
## 2165 0.59756098 0.44801980 0.4875213 0.53975133 0.569568079
## 2166 0.56097561 0.50247525 0.4736245 0.66099653 0.452027850
## 2167 0.63414634 0.17079208 0.4739081 0.80775619 0.493903694
## 2168 0.50000000 0.54702970 0.4770278 0.44852729 0.661185584
## 2169 0.56097561 0.62128713 0.4787294 0.69318155 0.639280931
## 2170 0.56097561 0.50990099 0.4931934 0.56364737 0.469531211
## 2171 0.42682927 0.50000000 0.4710720 0.36507157 0.398507966
## 2172 0.65853659 0.35891089 0.5002836 0.53031493 0.589996038
## 2173 0.78048780 0.46039604 0.4775950 0.65897454 0.549227268
## 2174 0.65853659 0.61633663 0.4914918 0.54747542 0.349500725
## 2175 0.52439024 0.50495050 0.4809983 0.52768185 0.420661197
## 2176 0.47560976 0.65099010 0.4906410 0.37255573 0.450472059
## 2177 0.53658537 0.29207921 0.4946115 0.55840558 0.620690769
## 2178 0.52439024 0.45792079 0.4767442 0.61318919 0.543975675
## 2179 0.50000000 0.44801980 0.4685196 0.45505241 0.331445914
## 2180 0.50000000 0.46534653 0.5002836 0.45994874 0.550354045
## 2181 0.46341463 0.48514851 0.4653999 0.56760536 0.311723754
## 2182 0.53658537 0.48267327 0.4710720 0.55137432 0.544231189
## 2183 0.62195122 0.47772277 0.4707884 0.54697834 0.446248107
## 2184 0.36585366 0.70792079 0.5127623 0.16038987 0.566614446
## 2185 0.50000000 0.50990099 0.4897901 0.68898151 0.444611804
## 2186 0.50000000 0.32673267 0.4719229 0.52470325 0.545504595
## 2187 0.58536585 0.34653465 0.4977311 0.44222877 0.477692769
## 2188 0.75609756 0.25990099 0.5119115 0.65938594 0.629229221
## 2189 0.43902439 0.58663366 0.4940442 0.37379865 0.355026304
## 2190 0.40243902 0.48762376 0.4665343 0.50836693 0.381471082
## 2191 0.53658537 0.47772277 0.4739081 0.67685106 0.440797441
## 2192 0.62195122 0.40594059 0.5150312 0.50924505 0.497589888
## 2193 0.41463415 0.65346535 0.4773114 0.47613009 0.367273329
## 2194 0.46341463 0.50495050 0.4702212 0.48081269 0.474800194
## 2195 0.59756098 0.46287129 0.4829836 0.59055562 0.586816481
## 2196 0.34146341 0.61386139 0.4931934 0.30828801 0.519389582
## 2197 0.62195122 0.67079208 0.4835508 0.73258218 0.495021576
## 2198 0.59756098 0.45792079 0.4798639 0.56554938 0.451130755
## 2199 0.78048780 0.48514851 0.5022689 0.57174642 0.453538579
## 2200 0.56097561 0.36386139 0.4773114 0.61507693 0.433827168
## 2201 0.59756098 0.46287129 0.4875213 0.64505345 0.678194049
## 2202 0.56097561 0.54950495 0.4812819 0.57941575 0.473358887
## 2203 0.59756098 0.49009901 0.4858196 0.58188231 0.529014712
## 2204 0.50000000 0.33168317 0.4665343 0.65462194 0.585006681
## 2205 0.52439024 0.43316832 0.4696540 0.37703323 0.314832594
## 2206 0.40243902 0.55198020 0.4838344 0.37502739 0.436037350
## 2207 0.37804878 0.57178218 0.4866704 0.49186866 0.495792768
## 2208 0.47560976 0.45049505 0.4761770 0.51136926 0.514156034
## 2209 0.59756098 0.51732673 0.4696540 0.51626122 0.402549820
## 2210 0.56097561 0.48267327 0.4804311 0.50996313 0.530079863
## 2211 0.47560976 0.38118812 0.4688032 0.52892167 0.413441484
## 2212 0.52439024 0.59900990 0.4968803 0.47415316 0.594020390
## 2213 0.59756098 0.24504950 0.4815655 0.54816102 0.580589116
## 2214 0.40243902 0.50000000 0.4818491 0.37569961 0.356287736
## 2215 0.52439024 0.60396040 0.4770278 0.57596868 0.617699622
## 2216 0.68292683 0.39356436 0.4566081 0.61458810 0.576121341
## 2217 0.50000000 0.25247525 0.4790130 0.49114667 0.498084878
## 2218 0.34146341 0.46039604 0.4543392 0.34597969 0.316412639
```

401

```
## 2219 0.47560976 0.51237624 0.4673851 0.41493029 0.455457479
## 2220 0.56097561 0.35643564 0.4841180 0.60694201 0.578036050
## 2221 0.43902439 0.61386139 0.4727737 0.57272132 0.414746839
## 2222 0.52439024 0.50742574 0.4727737 0.49013497 0.277196765
## 2223 0.37804878 0.58663366 0.4699376 0.49424559 0.544837363
## 2224 0.37804878 0.55198020 0.5113443 0.46085284 0.422739100
## 2225 0.63414634 0.31683168 0.5011344 0.71185478 0.589230636
## 2226 0.46341463 0.40099010 0.4946115 0.63691798 0.627108240
## 2227 0.52439024 0.65594059 0.4756098 0.47203498 0.324388832
## 2228 0.74390244 0.28712871 0.4798639 0.60353959 0.460323577
## 2229 0.41463415 0.34653465 0.4781622 0.56100675 0.448240488
## 2230 0.56097561 0.48019802 0.4736245 0.40717462 0.384463458
## 2231 0.41463415 0.40346535 0.4775950 0.48022475 0.455706318
## 2232 0.35365854 0.52475248 0.4866704 0.49183050 0.544957337
## 2233 0.43902439 0.43564356 0.4869541 0.42214707 0.416089552
## 2234 0.40243902 0.48762376 0.4832672 0.46496552 0.384027487
## 2235 0.43902439 0.41336634 0.4605786 0.46195545 0.442489179
## 2236 0.87804878 0.35891089 0.4679524 0.91689568 0.507030344
## 2237 0.46341463 0.53712871 0.4869541 0.48947463 0.472264590
## 2238 0.53658537 0.41089109 0.4892229 0.50592960 0.571858509
## 2239 0.68292683 0.40841584 0.4818491 0.51952107 0.388085375
## 2240 0.40243902 0.60148515 0.4903573 0.52228481 0.417140555
## 2241 0.47560976 0.33168317 0.4883721 0.38182174 0.568705302
## 2242 0.53658537 0.52970297 0.4849688 0.71933271 0.563200078
## 2243 0.36585366 0.65099010 0.5051049 0.23453984 0.505149292
## 2244 0.47560976 0.52970297 0.4886557 0.43611373 0.458931530
## 2245 0.43902439 0.49257426 0.5065230 0.36302229 0.500955628
## 2246 0.37804878 0.40841584 0.4985820 0.48176249 0.351402292
## 2247 0.25609756 0.40099010 0.4963131 0.40071783 0.535683261
## 2248 0.56097561 0.52970297 0.4716393 0.55586664 0.416730051
## 2249 0.34146341 0.62128713 0.4866704 0.46562207 0.267126203
## 2250 0.65853659 0.34653465 0.4600113 0.66285196 0.446499002
## 2251 0.40243902 0.42574257 0.4980147 0.48319668 0.285236362
## 2252 0.40243902 0.45049505 0.4974475 0.33889055 0.419790396
## 2253 0.62195122 0.38861386 0.5031197 0.39500074 0.472586398
## 2254 0.50000000 0.36633663 0.4574589 0.58914665 0.477063789
## 2255 0.43902439 0.49752475 0.6211004 0.42354581 0.551538901
## 2256 0.71951220 0.47772277 0.5036869 0.54855582 0.505924993
## 2257 0.50000000 0.42079208 0.4710720 0.57181210 0.443022033
## 2258 0.52439024 0.31930693 0.4931934 0.59826873 0.542841136
## 2259 0.43902439 0.58663366 0.4934770 0.37628483 0.355641398
## 2260 0.46341463 0.46287129 0.4954623 0.37798053 0.467800165
## 2261 0.62195122 0.50247525 0.4719229 0.60507336 0.734449080
## 2262 0.50000000 0.47277228 0.5087918 0.47502740 0.542991179
## 2263 0.56097561 0.36633663 0.4968803 0.47480520 0.405361236
## 2264 0.50000000 0.48514851 0.4753261 0.59572424 0.512805543
## 2265 0.59756098 0.41831683 0.4767442 0.56302228 0.543028757
## 2266 0.65853659 0.44554455 0.4878049 0.69602707 0.536214862
## 2267 0.34146341 0.61633663 0.4838344 0.25141793 0.440741172
## 2268 0.41463415 0.58168317 0.4931934 0.40956754 0.516936490
## 2269 0.31707317 0.52970297 0.4798639 0.38818358 0.640277162
## 2270 0.71951220 0.39851485 0.4809983 0.60554189 0.515490172
## 2271 0.43902439 0.47029703 0.4974475 0.21432095 0.433558685
## 2272 0.40243902 0.64356436 0.4818491 0.27505346 0.639312808
## 2273 0.50000000 0.32920792 0.4753261 0.32693036 0.488525725
## 2274 0.62195122 0.34653465 0.4940442 0.57433271 0.278483883
## 2275 0.47560976 0.42821782 0.4571753 0.62827748 0.482224860
## 2276 0.37804878 0.64603960 0.4914918 0.37428853 0.341477880
```

```
## 2277 0.68292683 0.31435644 0.4906410 0.60982888 0.458276869
## 2278 0.40243902 0.65099010 0.4878049 0.43082007 0.428708602
## 2279 0.50000000 0.44554455 0.4724901 0.51308153 0.427386622
## 2280 0.59756098 0.23762376 0.4812819 0.59293505 0.420679199
## 2281 0.65853659 0.44306931 0.4914918 0.48271917 0.447924463
## 2282 0.59756098 0.46039604 0.4744753 0.53460259 0.592906241
## 2283 0.56097561 0.47772277 0.4889393 0.58277464 0.510901103
## 2284 0.43902439 0.42574257 0.4767442 0.44221052 0.470495153
## 2285 0.40243902 0.44306931 0.4741917 0.61690230 0.592736430
## 2286 0.64634146 0.34653465 0.4914918 0.50198222 0.465196509
## 2287 0.50000000 0.54950495 0.4849688 0.47317649 0.409031730
## 2288 0.31707317 0.28217822 0.4503687 0.23687217 0.603950850
## 2289 0.53658537 0.41089109 0.4809983 0.61791144 0.545742966
## 2290 0.59756098 0.42079208 0.4818491 0.65155647 0.490909688
## 2291 0.62195122 0.61138614 0.4900737 0.64930012 0.413529319
## 2292 0.41463415 0.25000000 0.4900737 0.57618926 0.576430929
## 2293 0.28048780 0.59405941 0.4818491 0.43244765 0.507913811
## 2294 0.71951220 0.38613861 0.4914918 0.70702160 0.496726100
## 2295 0.56097561 0.51485149 0.4895065 0.44129017 0.595172272
## 2296 0.37804878 0.68069307 0.4824163 0.30617430 0.417476387
## 2297 0.07317073 0.59900990 0.4963131 0.27313945 0.430117482
## 2298 0.47560976 0.49009901 0.4917754 0.61322069 0.598940467
## 2299 0.50000000 0.47029703 0.4889393 0.52648137 0.468943575
## 2300 0.47560976 0.57178218 0.4702212 0.52334338 0.417119555
## 2301 0.53658537 0.46534653 0.4954623 0.58936817 0.649445181
## 2302 0.43902439 0.39356436 0.4869541 0.45551208 0.602812029
## 2303 0.43902439 0.39356436 0.5005672 0.34585241 0.529479522
## 2304 0.43902439 0.38613861 0.5008508 0.36022251 0.319583120
## 2305 0.42682927 0.45297030 0.4974475 0.39381400 0.491090334
## 2306 0.40243902 0.52722772 0.4946115 0.35199820 0.341834408
## 2307 0.52439024 0.57178218 0.4835508 0.42504517 0.383786901
## 2308 0.58536585 0.40841584 0.4807147 0.58005494 0.466096162
## 2309 0.59756098 0.31435644 0.5002836 0.55402033 0.589457355
## 2310 0.34146341 0.45049505 0.4866704 0.20964482 0.447931719
## 2311 0.43902439 0.59900990 0.4699376 0.36058773 0.662989102
## 2312 0.68292683 0.49257426 0.4946115 0.65995562 0.402537151
## 2313 0.43902439 0.33910891 0.4948951 0.41250559 0.462504103
## 2314 0.50000000 0.49257426 0.4982984 0.46531100 0.512062788
## 2315 0.56097561 0.48514851 0.4804311 0.47525146 0.522344722
## 2316 0.63414634 0.43316832 0.4750425 0.62676320 0.462504202
## 2317 0.52439024 0.48267327 0.4761770 0.53237165 0.441045559
## 2318 0.28048780 0.55940594 0.4761770 0.41429584 0.439946787
## 2319 0.50000000 0.56683168 0.4929098 0.50158447 0.484552437
## 2320 0.56097561 0.61633663 0.4926262 0.64098842 0.613487725
## 2321 0.59756098 0.39356436 0.4858196 0.55295759 0.639387502
## 2322 0.40243902 0.41089109 0.4934770 0.48616250 0.519325124
## 2323 0.34146341 0.59405941 0.4863868 0.47065961 0.319815541
## 2324 0.50000000 0.58663366 0.4858196 0.61902989 0.455656887
## 2325 0.50000000 0.48267327 0.4756098 0.43371446 0.543068083
## 2326 0.46341463 0.49257426 0.4849688 0.47853700 0.293878284
## 2327 0.43902439 0.61633663 0.5209870 0.41916891 0.617768427
## 2328 0.47560976 0.43564356 0.4906410 0.56910895 0.489616706
## 2329 0.56097561 0.50000000 0.4761770 0.44129173 0.476361800
## 2330 0.50000000 0.61633663 0.4713556 0.64906347 0.536034675
## 2331 0.37804878 0.23267327 0.4526375 0.20768104 0.484987641
## 2332 0.43902439 0.46287129 0.4878049 0.41723397 0.501995231
## 2333 0.52439024 0.58663366 0.4951787 0.51251147 0.467294895
## 2334 0.37804878 0.60643564 0.4914918 0.45286420 0.475533206
```

```
## 2335 0.52439024 0.63861386 0.4866704 0.47807678 0.402890517
## 2336 0.43902439 0.35891089 0.4770278 0.52581951 0.524974856
## 2337 0.43902439 0.46534653 0.4815655 0.46145238 0.469565441
## 2338 0.56097561 0.56188119 0.4809983 0.49636181 0.360066625
## 2339 0.30487805 0.60643564 0.4872377 0.09287277 0.433485275
## 2340 0.43902439 0.41089109 0.4872377 0.29740187 0.546214306
## 2341 0.68292683 0.35148515 0.4809983 0.62783994 0.470089780
## 2342 0.59756098 0.65099010 0.4920590 0.34259740 0.304053754
## 2343 0.53658537 0.39603960 0.4818491 0.44527797 0.643154836
## 2344 0.59756098 0.29207921 0.4878049 0.73530483 0.305433645
## 2345 0.56097561 0.50247525 0.4878049 0.46825359 0.400165100
## 2346 0.50000000 0.46287129 0.5127623 0.37564367 0.389853187
## 2347 0.56097561 0.52227723 0.4756098 0.60238112 0.236164077
## 2348 0.62195122 0.29455446 0.4838344 0.74997675 0.347993937
## 2349 0.37804878 0.37871287 0.4614294 0.50225579 0.171042623
## 2350 0.52439024 0.35891089 0.4435621 0.49650327 0.228412148
## 2351 0.37804878 0.41584158 0.4866704 0.38755244 0.410289575
## 2352 0.56097561 0.53465347 0.4931934 0.52447731 0.437282023
## 2353 0.68292683 0.32920792 0.4713556 0.62795320 0.450048431
## 2354 0.46341463 0.55940594 0.4809983 0.42312288 0.359891694
## 2355 0.50000000 0.39356436 0.4597277 0.51777475 0.423624049
## 2356 0.40243902 0.57673267 0.4917754 0.43502815 0.478266817
## 2357 0.36585366 0.50495050 0.4937606 0.38163622 0.477895624
## 2358 0.41463415 0.52722772 0.4795803 0.55795928 0.531209735
## 2359 0.41463415 0.33663366 0.4787294 0.58908336 0.509016220
## 2360 0.56097561 0.35396040 0.4770278 0.65681118 0.607080156
## 2361 0.43902439 0.63861386 0.4957459 0.45954936 0.415004404
## 2362 0.56097561 0.45049505 0.4818491 0.60790050 0.351699361
## 2363 0.68292683 0.41336634 0.4895065 0.59926896 0.600169881
## 2364 0.50000000 0.55445545 0.5036869 0.33191430 0.516739265
## 2365 0.52439024 0.59158416 0.5246739 0.51544492 0.645847331
## 2366 0.46341463 0.35148515 0.4741917 0.30141954 0.318350308
## 2367 0.37804878 0.63613861 0.4818491 0.56918616 0.449061394
## 2368 0.50000000 0.34653465 0.4889393 0.44938617 0.585025933
## 2369 0.63414634 0.36633663 0.4705048 0.60014691 0.469914086
## 2370 0.50000000 0.36633663 0.4812819 0.55745840 0.444254007
## 2371 0.47560976 0.61386139 0.4965967 0.35616901 0.346221444
## 2372 0.62195122 0.49257426 0.4838344 0.55234106 0.565013182
## 2373 0.43902439 0.52227723 0.4886557 0.56469427 0.379127097
## 2374 0.65853659 0.41089109 0.4914918 0.60555838 0.561139271
## 2375 0.63414634 0.48762376 0.4826999 0.55091523 0.437282948
## 2376 0.50000000 0.55693069 0.4920590 0.39597862 0.415181757
## 2377 0.43902439 0.39851485 0.4844016 0.36304152 0.489814671
## 2378 0.50000000 0.47029703 0.4809983 0.44191308 0.376034677
## 2379 0.52439024 0.46782178 0.4858196 0.59887069 0.382741683
## 2380 0.53658537 0.44306931 0.4855360 0.52609500 0.641970685
## 2381 0.52439024 0.45049505 0.4818491 0.51350773 0.433272945
## 2382 0.47560976 0.47277228 0.5096427 0.48794127 0.507916033
## 2383 0.56097561 0.44059406 0.4914918 0.45783158 0.545760249
## 2384 0.41463415 0.51237624 0.4824163 0.53922482 0.436973058
## 2385 0.46341463 0.29207921 0.4707884 0.72371358 0.469976831
## 2386 0.43902439 0.43564356 0.4940442 0.56194142 0.469329061
## 2387 0.47560976 0.27475248 0.4957459 0.60169926 0.718126922
## 2388 0.35365854 0.36386139 0.4855360 0.62463862 0.513677084
## 2389 0.37804878 0.55693069 0.4844016 0.43395712 0.493435944
## 2390 0.50000000 0.54950495 0.4832672 0.47034747 0.395839343
## 2391 0.43902439 0.48267327 0.4985820 0.45298930 0.630434384
## 2392 0.46341463 0.41089109 0.4931934 0.32062234 0.476786144
```

```
## 2393 0.52439024 0.55445545 0.5005672 0.47663102 0.536823714
## 2394 0.56097561 0.48019802 0.4804311 0.52966136 0.430223617
## 2395 0.40243902 0.59900990 0.4812819 0.39604908 0.398809555
## 2396 0.53658537 0.60643564 0.4753261 0.65024325 0.394004082
## 2397 0.40243902 0.39603960 0.4965967 0.35989501 0.458335924
## 2398 0.35365854 0.49752475 0.4747589 0.34047401 0.600325207
## 2399 0.58536585 0.37376238 0.4948951 0.48240344 0.456744024
## 2400 0.74390244 0.32673267 0.4809983 0.62934488 0.413144150
## 2401 0.50000000 0.40346535 0.4926262 0.49386453 0.530495720
## 2402 0.53658537 0.38366337 0.4815655 0.53617742 0.584753791
## 2403 0.53658537 0.47277228 0.4764606 0.62958299 0.487758344
## 2404 0.31707317 0.51485149 0.4727737 0.46454554 0.433780530
## 2405 0.62195122 0.37871287 0.4861032 0.60706579 0.467155413
## 2406 0.46341463 0.45297030 0.4733409 0.60133411 0.453589490
## 2407 0.58536585 0.67574257 0.4801475 0.44816357 0.505285921
## 2408 0.80487805 0.38861386 0.4790130 0.57074601 0.297242120
## 2409 0.46341463 0.43811881 0.4923426 0.52163535 0.544703864
## 2410 0.30487805 0.60891089 0.4863868 0.09658619 0.432568433
## 2411 0.56097561 0.56930693 0.4948951 0.63608136 0.568052598
## 2412 0.31707317 0.46039604 0.4951787 0.30377864 0.296937005
## 2413 0.50000000 0.40594059 0.4693704 0.63921204 0.432219426
## 2414 0.52439024 0.42079208 0.4929098 0.57183630 0.645759647
## 2415 0.50000000 0.51980198 0.4960295 0.49824412 0.489162230
## 2416 0.34146341 0.39851485 0.4985820 0.43016136 0.528163568
## 2417 0.43902439 0.63118812 0.4807147 0.36175993 0.379751018
## 2418 0.50000000 0.45049505 0.4824163 0.57299057 0.442294309
## 2419 0.59756098 0.60891089 0.4880885 0.46309757 0.356052654
## 2420 0.46341463 0.52722772 0.4866704 0.38965521 0.402930685
## 2421 0.46341463 0.45792079 0.4957459 0.33564776 0.502845166
## 2422 0.42682927 0.39603960 0.5076574 0.54128086 0.596127873
## 2423 0.56097561 0.39108911 0.4912082 0.55091983 0.504841876
## 2424 0.28048780 0.28712871 0.4722065 0.58133996 0.590688692
## 2425 0.71951220 0.44059406 0.4639818 0.72490626 0.599929496
## 2426 0.65853659 0.46534653 0.4835508 0.49307878 0.467942670
## 2427 0.31707317 0.36633663 0.4690868 0.56541579 0.527657347
## 2428 0.75609756 0.49504950 0.4960295 0.86039193 0.556327653
## 2429 0.59756098 0.42079208 0.4895065 0.57945530 0.385061850
## 2430 0.74390244 0.36881188 0.4812819 0.63390662 0.564091260
## 2431 0.34146341 0.32178218 0.4934770 0.31416828 0.451543671
## 2432 0.50000000 0.52722772 0.4756098 0.50287963 0.362901781
## 2433 0.46341463 0.45792079 0.4917754 0.42754459 0.257088562
## 2434 0.34146341 0.49257426 0.5076574 0.30256186 0.458960075
## 2435 0.43902439 0.50742574 0.4855360 0.45863325 0.474417212
## 2436 0.50000000 0.57178218 0.4844016 0.57724613 0.530368562
## 2437 0.62195122 0.30445545 0.4639818 0.56206906 0.375531892
## 2438 0.43902439 0.47277228 0.4991492 0.36194104 0.371619069
## 2439 0.59756098 0.52722772 0.4537720 0.67595783 0.532424511
## 2440 0.37804878 0.27722772 0.5175837 0.43651761 0.493417927
## 2441 0.62195122 0.37623762 0.4611458 0.37195898 0.507936528
## 2442 0.53658537 0.21039604 0.4659671 0.73859592 0.439656639
## 2443 0.50000000 0.77722772 0.5068066 0.36189022 0.459832974
## 2444 0.42682927 0.47524752 0.4903573 0.72400987 0.620118541
## 2445 0.35365854 0.59900990 0.4855360 0.49083598 0.377551452
## 2446 0.56097561 0.47029703 0.4628474 0.61400387 0.537761524
## 2447 0.58536585 0.54950495 0.5164492 0.42313759 0.755165299
## 2448 0.37804878 0.70792079 0.4537720 0.43347192 0.437419454
## 2449 0.46341463 0.41089109 0.5062394 0.51809285 0.630781037
## 2450 0.37804878 0.51732673 0.5011344 0.46854816 0.439003555
```

```
## 2451 0.65853659 0.36138614 0.4696540 0.35279412 0.294995920
## 2452 0.31707317 0.25990099 0.5235394 0.51472461 0.524264962
## 2453 0.41463415 0.58663366 0.4480998 0.56685798 0.241720727
## 2454 0.37804878 0.45049505 0.4730573 0.48415390 0.438739876
## 2455 0.58536585 0.52475248 0.4770278 0.62222177 0.598412398
## 2456 0.47560976 0.30940594 0.4861032 0.45115280 0.480103217
## 2457 0.35365854 0.37128713 0.5167328 0.35178829 0.369349782
## 2458 0.56097561 0.38366337 0.4900737 0.38527217 0.414635895
## 2459 0.71951220 0.29702970 0.4466818 0.64309413 0.440841241
## 2460 0.56097561 0.40841584 0.4778786 0.50931214 0.569631837
## 2461 0.40243902 0.50990099 0.5190017 0.27617419 0.411371309
## 2462 0.37804878 0.47524752 0.5178673 0.38028817 0.397554813
## 2463 0.50000000 0.38861386 0.4909246 0.41897097 0.461579341
## 2464 0.53658537 0.46534653 0.4960295 0.58834777 0.637638994
## 2465 0.36585366 0.60148515 0.5232558 0.36773886 0.583328191
## 2466 0.62195122 0.48762376 0.4878049 0.59492797 0.173540728
## 2467 0.47560976 0.37871287 0.4699376 0.39771941 0.497525381
## 2468 0.68292683 0.20297030 0.4628474 0.62278641 0.319995204
## 2469 0.34146341 0.37623762 0.4600113 0.45940123 0.461792821
## 2470 0.65853659 0.47772277 0.5045377 0.63615488 0.623126672
## 2471 0.50000000 0.28217822 0.4736245 0.53477338 0.450077956
## 2472 0.52439024 0.50000000 0.4756098 0.50488193 0.321217185
## 2473 0.53658537 0.45544554 0.4798639 0.57409093 0.425291569
## 2474 0.37804878 0.23019802 0.4506523 0.23626129 0.477562070
## 2475 0.52439024 0.43069307 0.4855360 0.65019264 0.394214401
## 2476 0.52439024 0.66089109 0.4736245 0.41506546 0.217063846
## 2477 0.56097561 0.43316832 0.5048213 0.63953510 0.317433643
## 2478 0.56097561 0.45792079 0.4719229 0.55301067 0.384512354
## 2479 0.43902439 0.67821782 0.4878049 0.48227708 0.312491842
## 2480 0.46341463 0.54950495 0.4909246 0.52283193 0.215366385
## 2481 0.52439024 0.33663366 0.4977311 0.43206226 0.526838384
## 2482 0.56097561 0.41336634 0.4974475 0.57381626 0.598333625
## 2483 0.43902439 0.51485149 0.4319342 0.53886648 0.427652890
## 2484 0.56097561 0.55198020 0.4534884 0.67993099 0.546647545
## 2485 0.41463415 0.50742574 0.5198525 0.37612238 0.359964478
## 2486 0.25609756 0.53217822 0.5031197 0.49616430 0.418062086
## 2487 0.37804878 0.42821782 0.4665343 0.41329373 0.224067495
## 2488 0.65853659 0.47277228 0.4679524 0.65638187 0.397974454
## 2489 0.41463415 0.44801980 0.4702212 0.44843179 0.221916916
## 2490 0.56097561 0.47029703 0.4566081 0.52567511 0.371451388
## 2491 0.65853659 0.30198020 0.4855360 0.72669422 0.538935746
## 2492 0.37804878 0.46039604 0.4642655 0.41593345 0.312193297
## 2493 0.68292683 0.56683168 0.4787294 0.60858063 0.361201590
## 2494 0.41463415 0.46782178 0.5008508 0.38511441 0.412573235
## 2495 0.46341463 0.51237624 0.5065230 0.35022762 0.512177657
## 2496 0.53658537 0.37376238 0.4946115 0.44899305 0.560622680
## 2497 0.41463415 0.29207921 0.4594441 0.51177485 0.611881155
## 2498 0.52439024 0.36881188 0.5107771 0.56483843 0.326301641
## 2499 0.40243902 0.39603960 0.4676687 0.53541233 0.341795712
## 2500 0.50000000 0.33168317 0.4991492 0.49291196 0.373332331
## 2501 0.56097561 0.47277228 0.4940442 0.44472768 0.451844478
## 2502 0.47560976 0.37128713 0.4778786 0.56475453 0.510992157
## 2503 0.62195122 0.42821782 0.4693704 0.63266449 0.293480374
## 2504 0.62195122 0.61138614 0.5017016 0.53218046 0.318981734
## 2505 0.43902439 0.35396040 0.4804311 0.37336932 0.725448629
## 2506 0.56097561 0.54207921 0.4829836 0.61927954 0.442954756
## 2507 0.56097561 0.53465347 0.4251276 0.59350520 0.457383716
## 2508 0.46341463 0.29950495 0.4594441 0.56874320 0.418754969
```

```
## 2509 0.65853659 0.53465347 0.4832672 0.49919206 0.440130861
## 2510 0.43902439 0.43069307 0.4846852 0.45699108 0.230129574
## 2511 0.28048780 0.56188119 0.4770278 0.41332661 0.447634756
## 2512 0.31707317 0.52722772 0.5209870 0.36244470 0.315457595
## 2513 0.43902439 0.47029703 0.4844016 0.39664015 0.458331012
## 2514 0.43902439 0.39851485 0.4934770 0.48109779 0.546257298
## 2515 0.37804878 0.36881188 0.4897901 0.46458802 0.564910056
## 2516 0.40243902 0.50495050 0.4923426 0.49656345 0.482035868
## 2517 0.46341463 0.50742574 0.4826999 0.46935076 0.457521901
## 2518 0.62195122 0.43316832 0.4920590 0.60870949 0.403997668
## 2519 0.40243902 0.28960396 0.4750425 0.31215782 0.444255757
## 2520 0.62195122 0.47524752 0.4815655 0.61757510 0.536673037
## 2521 0.53658537 0.49752475 0.4883721 0.51204558 0.476499259
## 2522 0.56097561 0.57178218 0.4608622 0.47238626 0.402942148
## 2523 0.28048780 0.57673267 0.4846852 0.36005816 0.299454886
## 2524 0.47560976 0.37871287 0.4883721 0.47324457 0.568947482
## 2525 0.46341463 0.62871287 0.4821327 0.52909130 0.266905580
## 2526 0.46341463 0.49009901 0.4892229 0.54283110 0.402148301
## 2527 0.40243902 0.42326733 0.4841180 0.34636784 0.313400116
## 2528 0.50000000 0.65841584 0.4937606 0.34171867 0.436551663
## 2529 0.59756098 0.34405941 0.4869541 0.52323316 0.690630779
## 2530 0.43902439 0.49009901 0.4844016 0.38187566 0.383980082
## 2531 0.53658537 0.32673267 0.4849688 0.41016425 0.643934286
## 2532 0.50000000 0.58663366 0.4858196 0.61987137 0.460900521
## 2533 0.59756098 0.31435644 0.5229722 0.49765494 0.490423327
## 2534 0.46341463 0.67574257 0.4770278 0.68877637 0.278146270
## 2535 0.62195122 0.50742574 0.4960295 0.46007429 0.464290236
## 2536 0.65853659 0.33168317 0.4509359 0.60628604 0.645334093
## 2537 0.63414634 0.32920792 0.5019853 0.56535434 0.439025628
## 2538 0.50000000 0.38613861 0.4914918 0.42265946 0.464123851
## 2539 0.62195122 0.76237624 0.4730573 0.45473241 0.438587099
## 2540 0.43902439 0.41831683 0.4861032 0.51848196 0.564060733
## 2541 0.42682927 0.49752475 0.4588769 0.27794452 0.258360599
## 2542 0.69512195 0.34653465 0.4795803 0.83659261 0.499352309
## 2543 0.74390244 0.52227723 0.4756098 0.73976771 0.482605470
## 2544 0.40243902 0.46534653 0.4716393 0.46858646 0.633170872
## 2545 0.62195122 0.41584158 0.4741917 0.55048975 0.549318786
## 2546 0.50000000 0.41831683 0.4818491 0.47941753 0.508441876
## 2547 0.58536585 0.46287129 0.4920590 0.61420078 0.552283915
## 2548 0.53658537 0.50742574 0.4602950 0.64148308 0.507341325
## 2549 0.53658537 0.51732673 0.4750425 0.44117074 0.300287437
## 2550 0.56097561 0.32673267 0.5090754 0.52020353 0.537073891
## 2551 0.43902439 0.28960396 0.4554736 0.28964574 0.504695526
## 2552 0.37804878 0.54207921 0.4914918 0.54736636 0.546629032
## 2553 0.58536585 0.52722772 0.4741917 0.71193013 0.553757146
## 2554 0.52439024 0.34158416 0.4773114 0.55571684 0.497869899
## 2555 0.53658537 0.50000000 0.4770278 0.61783832 0.480340841
## 2556 0.62195122 0.42574257 0.4753261 0.51657259 0.529250686
## 2557 0.21951220 0.75000000 0.4937606 0.41640797 0.275747998
## 2558 0.62195122 0.46287129 0.4753261 0.49076560 0.332633722
## 2559 0.37804878 0.56435644 0.5042541 0.36142830 0.442048164
## 2560 0.69512195 0.35396040 0.4682360 0.81384471 0.410974673
## 2561 0.50000000 0.55198020 0.4756098 0.55260700 0.406286532
## 2562 0.50000000 0.43316832 0.4809983 0.44223978 0.495557920
## 2563 0.40243902 0.53465347 0.4724901 0.59253405 0.262859214
## 2564 0.59756098 0.40594059 0.4651163 0.59123207 0.435958910
## 2565 0.52439024 0.53217822 0.4920590 0.49490817 0.519905248
## 2566 0.53658537 0.43069307 0.5326149 0.58424808 0.462746913
```

```
## 2567 0.53658537 0.39603960 0.4824163 0.62062779 0.661407578
## 2568 0.40243902 0.47524752 0.4909246 0.33877891 0.561684087
## 2569 0.36585366 0.63613861 0.4974475 0.33028941 0.466667111
## 2570 0.43902439 0.42821782 0.4991492 0.44952459 0.515698506
## 2571 0.46341463 0.45792079 0.4866704 0.52060786 0.504894286
## 2572 0.56097561 0.58663366 0.5022689 0.36334383 0.524621512
## 2573 0.68292683 0.39603960 0.4736245 0.55328231 0.582345101
## 2574 0.36585366 0.50495050 0.5034033 0.50336116 0.512417151
## 2575 0.71951220 0.18316832 0.4639818 0.72478853 0.533384411
## 2576 0.58536585 0.45792079 0.4914918 0.53523550 0.481132286
## 2577 0.28048780 0.64108911 0.4994328 0.36066931 0.356175574
## 2578 0.50000000 0.38118812 0.4960295 0.48656410 0.484824478
## 2579 0.52439024 0.51237624 0.5079410 0.74605423 0.470882683
## 2580 0.25609756 0.38861386 0.5093590 0.32177155 0.646806468
## 2581 0.50000000 0.44306931 0.4764606 0.55212739 0.334262351
## 2582 0.80487805 0.20049505 0.4515031 0.55993196 0.476344436
## 2583 0.52439024 0.48019802 0.5085082 0.52601261 0.424212025
## 2584 0.41463415 0.61881188 0.5022689 0.40200590 0.607063462
## 2585 0.56097561 0.29950495 0.4750425 0.54312440 0.532906176
## 2586 0.50000000 0.65346535 0.5011344 0.52841613 0.591404561
## 2587 0.47560976 0.34653465 0.4835508 0.55797481 0.422789325
## 2588 0.31707317 0.47524752 0.4943279 0.40425339 0.480949091
## 2589 0.59756098 0.42079208 0.4849688 0.57008990 0.601809586
## 2590 0.31707317 0.55940594 0.4770278 0.57031774 0.376034677
## 2591 0.62195122 0.44801980 0.4844016 0.51450549 0.453180061
## 2592 0.37804878 0.53960396 0.4929098 0.46968047 0.443416817
## 2593 0.46341463 0.44059406 0.4801475 0.31779518 0.382428925
## 2594 0.58536585 0.50247525 0.5311968 0.54930334 0.548679362
## 2595 0.50000000 0.43811881 0.4889393 0.31645424 0.731859836
## 2596 0.52439024 0.42326733 0.5411231 0.38412004 0.566026435
## 2597 0.47560976 0.58415842 0.4869541 0.62564295 0.404753028
## 2598 0.52439024 0.41584158 0.4809983 0.43425355 0.455531233
## 2599 0.50000000 0.43316832 0.4971639 0.38631208 0.394965016
## 2600 0.62195122 0.59405941 0.5022689 0.43549282 0.550066129
## 2601 0.31707317 0.70544554 0.4931934 0.46817384 0.658382409
## 2602 0.56097561 0.54207921 0.4923426 0.54792479 0.515589130
## 2603 0.65853659 0.22772277 0.4617130 0.59419546 0.403006741
## 2604 0.58536585 0.62623762 0.4982984 0.76130687 0.650151711
## 2605 0.37804878 0.53217822 0.4438457 0.51522313 0.367621194
## 2606 0.50000000 0.38613861 0.4980147 0.41387231 0.556824985
## 2607 0.53658537 0.35891089 0.4869541 0.48729698 0.308672818
## 2608 0.40243902 0.48514851 0.4869541 0.54889862 0.409620624
## 2609 0.62195122 0.37376238 0.4773114 0.66802238 0.593251028
## 2610 0.50000000 0.57673267 0.4914918 0.53155349 0.364324282
## 2611 0.41463415 0.52970297 0.4758934 0.45924960 0.291310897
## 2612 0.63414634 0.33168317 0.4824163 0.42593684 0.506088978
## 2613 0.52439024 0.46782178 0.4883721 0.69060206 0.579175004
## 2614 0.40243902 0.42574257 0.4954623 0.48150072 0.256501895
## 2615 0.68292683 0.55198020 0.4909246 0.43434088 0.333870012
## 2616 0.37804878 0.41831683 0.4926262 0.43326378 0.431299246
## 2617 0.37804878 0.41089109 0.4954623 0.44394807 0.567153382
## 2618 0.64634146 0.46534653 0.4968803 0.62609417 0.537240302
## 2619 0.50000000 0.47524752 0.4724901 0.60846463 0.539305976
## 2620 0.46341463 0.32425743 0.4716393 0.65649238 0.480237230
## 2621 0.62195122 0.28217822 0.4549064 0.56728023 0.515403175
## 2622 0.46341463 0.62623762 0.4960295 0.33479958 0.496017344
## 2623 0.56097561 0.65099010 0.4886557 0.53276017 0.614468623
## 2624 0.52439024 0.80693069 0.5019853 0.51786578 0.418977863
```

```
## 2625 0.56097561 0.48762376 0.4934770 0.68740508 0.597808015
## 2626 0.46341463 0.55445545 0.4767442 0.58287309 0.534596385
## 2627 0.68292683 0.59158416 0.4778786 0.62754286 0.396565227
## 2628 0.56097561 0.50742574 0.4863868 0.47058391 0.491567105
## 2629 0.56097561 0.31930693 0.4951787 0.53452801 0.706068012
## 2630 0.43902439 0.39108911 0.4826999 0.42552424 0.288752424
## 2631 0.58536585 0.41336634 0.4968803 0.57364490 0.691179736
## 2632 0.41463415 0.33168317 0.5056721 0.47943132 0.678433054
## 2633 0.31707317 0.51732673 0.4909246 0.47094295 0.435866565
## 2634 0.58536585 0.42326733 0.4929098 0.48938090 0.464956021
## 2635 0.58536585 0.74257426 0.4846852 0.55089612 0.414109760
## 2636 0.46341463 0.59158416 0.4872377 0.57177001 0.604486433
## 2637 0.40243902 0.63861386 0.4756098 0.52425280 0.337979844
## 2638 0.58536585 0.53465347 0.4741917 0.62994876 0.399027691
## 2639 0.56097561 0.46039604 0.4869541 0.60346612 0.682770494
## 2640 0.43902439 0.47772277 0.4568917 0.59584992 0.390802344
## 2641 0.76829268 0.39356436 0.4744753 0.58334465 0.462160095
## 2642 0.47560976 0.33168317 0.4934770 0.39334578 0.591479194
## 2643 0.50000000 0.41089109 0.4934770 0.51343118 0.577490508
## 2644 0.37804878 0.52722772 0.4909246 0.45073812 0.383617679
## 2645 0.50000000 0.45544554 0.4821327 0.48614829 0.453552337
## 2646 0.37804878 0.45792079 0.4792967 0.55253388 0.453510924
## 2647 0.47560976 0.41584158 0.4773114 0.53682117 0.464281307
## 2648 0.64634146 0.26732673 0.4600113 0.51629482 0.288986937
## 2649 0.30487805 0.50495050 0.4798639 0.44675303 0.324808035
## 2650 0.40243902 0.80940594 0.5119115 0.27101921 0.481844250
## 2651 0.53658537 0.46782178 0.4872377 0.49091814 0.359776133
## 2652 0.56097561 0.49504950 0.5218378 0.48699720 0.490526272
## 2653 0.52439024 0.35891089 0.4963131 0.34511899 0.481943756
## 2654 0.62195122 0.39603960 0.4926262 0.49807353 0.400276605
## 2655 0.41463415 0.44306931 0.4889393 0.45119608 0.511049103
## 2656 0.46341463 0.59158416 0.4960295 0.46279996 0.313333294
## 2657 0.43902439 0.62128713 0.4741917 0.44710712 0.308930211
## 2658 0.65853659 0.36881188 0.4642655 0.69236777 0.394524447
## 2659 0.56097561 0.42326733 0.4696540 0.57977295 0.429029426
## 2660 0.59756098 0.44801980 0.4826999 0.53925438 0.579516136
## 2661 0.43902439 0.70297030 0.4872377 0.59427574 0.405583250
## 2662 0.46341463 0.50495050 0.4707884 0.54331313 0.563318823
## 2663 0.43902439 0.37623762 0.4753261 0.61147609 0.592548756
## 2664 0.29268293 0.57920792 0.4994328 0.50818234 0.193250544
## 2665 0.15853659 0.33415842 0.4526375 0.19043952 0.436720823
## 2666 0.59756098 0.17821782 0.4611458 0.60522527 0.452310627
## 2667 0.43902439 0.43811881 0.4761770 0.66165061 0.487154223
## 2668 0.52439024 0.38118812 0.5266591 0.26338489 0.764804929
## 2669 0.75609756 0.29207921 0.5161656 0.64627165 0.717585037
## 2670 0.50000000 0.64851485 0.4611458 0.52182583 0.427455085
## 2671 0.46341463 0.49009901 0.5008508 0.54259483 0.632907036
## 2672 0.46341463 0.36633663 0.4863868 0.50208890 0.414778148
## 2673 0.53658537 0.67079208 0.6140102 0.49071585 0.592912739
## 2674 0.47560976 0.36633663 0.4750425 0.61091447 0.482161425
## 2675 0.69512195 0.38613861 0.4719229 0.59223499 0.310316022
## 2676 0.47560976 0.50990099 0.4778786 0.53902921 0.513439953
## 2677 0.59756098 0.36386139 0.5170164 0.51053733 0.348500264
## 2678 0.62195122 0.31683168 0.4716393 0.65169693 0.783857619
## 2679 0.47560976 0.30940594 0.5017016 0.39227011 0.475284520
## 2680 0.40243902 0.47772277 0.5028361 0.45948415 0.418675517
## 2681 0.47560976 0.24752475 0.4631310 0.40736323 0.505406663
## 2682 0.46341463 0.51485149 0.4710720 0.51718106 0.383500612
```

```
## 2683 0.68292683 0.18564356 0.5224050 0.54034268 0.525860674
## 2684 0.56097561 0.29207921 0.5025525 0.41006281 0.499230514
## 2685 0.56097561 0.32673267 0.4914918 0.55943028 0.513967732
## 2686 0.47560976 0.52970297 0.4634146 0.58092928 0.451838822
## 2687 0.71951220 0.40346535 0.4642655 0.68737802 0.533070721
## 2688 0.50000000 0.43564356 0.4926262 0.50501535 0.563334709
## 2689 0.37804878 0.55940594 0.4639818 0.30829528 0.432454509
## 2690 0.50000000 0.63366337 0.4407260 0.55175486 0.429577717
## 2691 0.47560976 0.33415842 0.4648327 0.56256616 0.450430161
## 2692 0.31707317 0.54702970 0.4841180 0.48464772 0.519380776
## 2693 0.71951220 0.50000000 0.4631310 0.67578303 0.368333779
## 2694 0.50000000 0.47524752 0.5000000 0.59592974 0.531670158
## 2695 0.36585366 0.49504950 0.4659671 0.49986899 0.234807399
## 2696 0.13414634 0.65841584 0.5000000 0.32460146 0.466301297
## 2697 0.40243902 0.46287129 0.5045377 0.43710704 0.519702503
## 2698 0.50000000 0.58663366 0.4693704 0.58688745 0.511807467
## 2699 0.47560976 0.54950495 0.4750425 0.45963618 0.637863454
## 2700 0.64634146 0.55940594 0.4705048 0.50221036 0.406745965
## 2701 0.36585366 0.55940594 0.5051049 0.47627961 0.598772823
## 2702 0.62195122 0.44306931 0.4628474 0.65641469 0.374674681
## 2703 0.50000000 0.29950495 0.4889393 0.38691486 0.504872184
## 2704 0.56097561 0.35148515 0.4702212 0.58000330 0.585899931
## 2705 0.50000000 0.45297030 0.5141804 0.41271764 0.366418776
## 2706 0.71951220 0.54950495 0.4997164 0.85943506 0.199523225
## 2707 0.40243902 0.60148515 0.5048213 0.28276227 0.433060379
## 2708 0.62195122 0.49504950 0.5002836 0.30740018 0.465795123
## 2709 0.40243902 0.71782178 0.4523539 0.39428440 0.323967233
## 2710 0.59756098 0.43811881 0.4614294 0.46771227 0.408995737
## 2711 0.50000000 0.61881188 0.4730573 0.63647273 0.357088759
## 2712 0.21951220 0.46039604 0.4761770 0.27229517 0.457976624
## 2713 0.46341463 0.40346535 0.4997164 0.49245540 0.370026778
## 2714 0.62195122 0.33910891 0.5008508 0.73365853 0.685835972
## 2715 0.52439024 0.63861386 0.4705048 0.60179422 0.353213828
## 2716 0.34146341 0.55445545 0.5207033 0.41866468 0.460893401
## 2717 0.40243902 0.69801980 0.4628474 0.50221772 0.461291312
## 2718 0.43902439 0.54702970 0.4920590 0.56512824 0.478228093
## 2719 0.47560976 0.50495050 0.4733409 0.48718832 0.406062672
## 2720 0.34146341 0.52970297 0.4980147 0.39621427 0.530763404
## 2721 0.31707317 0.45297030 0.5005672 0.33526217 0.393789329
## 2722 0.58536585 0.50000000 0.4875213 0.43313569 0.416671803
## 2723 0.31707317 0.44306931 0.4756098 0.33823301 0.522411101
## 2724 0.31707317 0.55940594 0.4838344 0.40313625 0.472780789
## 2725 0.52439024 0.33663366 0.4991492 0.44724191 0.523477062
## 2726 0.28048780 0.52722772 0.5036869 0.35733404 0.532424826
## 2727 0.53658537 0.67079208 0.4934770 0.57342016 0.413276536
## 2728 0.52439024 0.45297030 0.4560408 0.57010977 0.594394936
## 2729 0.53658537 0.36138614 0.4611458 0.59928949 0.325120643
## 2730 0.50000000 0.44554455 0.4756098 0.53666591 0.324421399
## 2731 0.43902439 0.46782178 0.4515031 0.43335985 0.214579926
## 2732 0.56097561 0.35148515 0.3550766 0.56254596 0.350031804
## 2733 0.50000000 0.54455446 0.4858196 0.39700693 0.505334347
## 2734 0.56097561 0.47772277 0.4795803 0.62406730 0.300567125
## 2735 0.50000000 0.26485149 0.5286444 0.39374896 0.444876332
## 2736 0.47560976 0.44554455 0.4764606 0.49301020 0.538576762
## 2737 0.62195122 0.54702970 0.4790130 0.61664284 0.454630637
## 2738 0.43902439 0.51732673 0.4931934 0.58748952 0.440119882
## 2739 0.34146341 0.52475248 0.4795803 0.36202424 0.389139167
## 2740 0.59756098 0.37376238 0.4846852 0.45148071 0.465985501
```

410

```
## 2741 0.56097561 0.44306931 0.4826999 0.56584353 0.469001733
## 2742 0.52439024 0.45049505 0.4991492 0.32010860 0.666357742
## 2743 0.34146341 0.54455446 0.4815655 0.29466296 0.406471500
## 2744 0.47560976 0.44554455 0.4892229 0.40681039 0.590156817
## 2745 0.59756098 0.16336634 0.5181509 0.47951826 0.574502284
## 2746 0.47560976 0.29455446 0.4758934 0.38672912 0.492098526
## 2747 0.53658537 0.57920792 0.4875213 0.66731036 0.533836606
## 2748 0.47560976 0.60891089 0.4965967 0.59866026 0.550183797
## 2749 0.46341463 0.55940594 0.4807147 0.42363836 0.356892235
## 2750 0.43902439 0.60148515 0.4410096 0.46279139 0.515698506
## 2751 0.43902439 0.49257426 0.4844016 0.37821057 0.385992132
## 2752 0.50000000 0.41584158 0.4804311 0.32797723 0.527337947
## 2753 0.53658537 0.44306931 0.4855360 0.52511459 0.626567912
## 2754 0.81707317 0.39108911 0.4693704 0.79915512 0.269115374
## 2755 0.37804878 0.82425743 0.5045377 0.44517711 0.356432403
## 2756 0.35365854 0.57425743 0.4747589 0.48128975 0.547793202
## 2757 0.40243902 0.46039604 0.5113443 0.58017092 0.210878444
## 2758 0.71951220 0.28960396 0.4557572 0.59001610 0.658931691
## 2759 0.09756098 0.65099010 0.5201361 0.19245869 0.469049899
## 2760 0.46341463 0.54702970 0.4804311 0.46337961 0.393347166
## 2761 0.76829268 0.44306931 0.4912082 0.80029942 0.622532921
## 2762 0.15853659 0.51732673 0.4909246 0.11202456 0.505110714
## 2763 0.59756098 0.52722772 0.4965967 0.54786470 0.392691961
## 2764 0.25609756 0.63613861 0.4617130 0.36788973 0.513467600
## 2765 0.18292683 0.44306931 0.4994328 0.12132824 0.593577176
## 2766 0.03658537 0.57425743 0.4931934 0.10538772 0.480102409
## 2767 0.56097561 0.59405941 0.5014180 0.41959264 0.271867924
## 2768 0.50000000 0.58415842 0.4554736 0.47213843 0.372437913
## 2769 0.53658537 0.33910891 0.4775950 0.42383065 0.582182555
## 2770 0.52439024 0.42326733 0.5019853 0.58975695 0.469449798
## 2771 0.47560976 0.49752475 0.4948951 0.53098467 0.520746596
## 2772 0.47560976 0.70544554 0.5124787 0.47008064 0.581015140
## 2773 0.50000000 0.41584158 0.4895065 0.46538952 0.474403551
## 2774 0.46341463 0.45049505 0.4699376 0.60252896 0.383621882
## 2775 0.41463415 0.44801980 0.4832672 0.28133531 0.091741416
## 2776 0.59756098 0.36633663 0.4787294 0.53141786 0.438094864
## 2777 0.53658537 0.35643564 0.4798639 0.50238354 0.568903028
## 2778 0.43902439 0.38861386 0.4826999 0.50309841 0.236100864
## 2779 0.40243902 0.47524752 0.5221214 0.41400140 0.636112631
## 2780 0.40243902 0.48514851 0.4937606 0.36097956 0.472633489
## 2781 0.56097561 0.30693069 0.4991492 0.45443336 0.381804942
## 2782 0.58536585 0.33168317 0.4815655 0.80922218 0.678901995
## 2783 0.50000000 0.40841584 0.4659671 0.55738784 0.619732948
## 2784 0.40243902 0.61633663 0.4668179 0.45177181 0.344953222
## 2785 0.42682927 0.54455446 0.4642655 0.37262550 0.251105051
## 2786 0.56097561 0.39356436 0.4722065 0.68769250 0.669268225
## 2787 0.59756098 0.50495050 0.4651163 0.61148051 0.240302241
## 2788 0.56097561 0.33910891 0.4892229 0.43494520 0.437716406
## 2789 0.47560976 0.44306931 0.4764606 0.47741498 0.325050584
## 2790 0.31707317 0.58910891 0.4659671 0.27842304 0.153877668
## 2791 0.50000000 0.48762376 0.4844016 0.59577246 0.688657887
## 2792 0.53658537 0.44059406 0.4861032 0.45830149 0.374001092
## 2793 0.40243902 0.55198020 0.4829836 0.37042616 0.433184520
## 2794 0.58536585 0.31435644 0.4758934 0.53009637 0.588200615
## 2795 0.28048780 0.52475248 0.4855360 0.33983626 0.354687728
## 2796 0.52439024 0.60396040 0.4875213 0.52560849 0.837410579
## 2797 0.62195122 0.55940594 0.4892229 0.59905745 0.737614153
## 2798 0.46341463 0.31930693 0.4767442 0.48221163 0.612148793
```

```
## 2799 0.68292683 0.67574257 0.4801475 0.65037263 0.418510750
## 2800 0.56097561 0.47772277 0.4943279 0.47785435 0.448636030
## 2801 0.56097561 0.28960396 0.5065230 0.48270277 0.642065210
## 2802 0.30487805 0.52722772 0.4858196 0.50836594 0.203694481
## 2803 0.53658537 0.31188119 0.4872377 0.51349551 0.401811056
## 2804 0.71951220 0.40841584 0.4719229 0.63868462 0.479497155
## 2805 0.58536585 0.36386139 0.4778786 0.60185352 0.484668131
## 2806 0.56097561 0.64603960 0.5456608 0.62528023 0.439018016
## 2807 0.50000000 0.45792079 0.4611458 0.57703735 0.425098505
## 2808 0.46341463 0.51485149 0.4903573 0.43255411 0.525325433
## 2809 0.43902439 0.68316832 0.4880885 0.40346670 0.430922225
## 2810 0.56097561 0.38861386 0.4963131 0.50940387 0.443965517
## 2811 0.47560976 0.42821782 0.5070902 0.51188874 0.371351099
## 2812 0.56097561 0.57920792 0.5465116 0.59477087 0.703013246
## 2813 0.41463415 0.56188119 0.4844016 0.56528891 0.402723711
## 2814 0.37804878 0.74752475 0.4792967 0.48246675 0.386794229
## 2815 0.47560976 0.47277228 0.4602950 0.43719036 0.274950140
## 2816 0.56097561 0.56930693 0.5036869 0.63798414 0.549938229
## 2817 0.52439024 0.75990099 0.4625638 0.49059524 0.293736202
## 2818 0.65853659 0.39356436 0.5130459 0.59848064 0.486704347
## 2819 0.43902439 0.48514851 0.4914918 0.55500058 0.522804600
## 2820 0.32926829 0.51732673 0.4614294 0.47559680 0.471605842
## 2821 0.56097561 0.50247525 0.4636982 0.64800314 0.615851386
## 2822 0.24390244 0.59900990 0.5011344 0.19537844 0.548359340
## 2823 0.56097561 0.33910891 0.4801475 0.51691021 0.419509214
## 2824 0.37804878 0.48267327 0.5666478 0.21666171 0.400638630
## 2825 0.56097561 0.64851485 0.4931934 0.37973383 0.410358732
## 2826 0.86585366 0.26732673 0.4659671 0.70248323 0.397929410
## 2827 0.37804878 0.49257426 0.4775950 0.47068080 0.511357590
## 2828 0.59756098 0.54702970 0.4685196 0.66298219 0.524889758
## 2829 0.50000000 0.45297030 0.5031197 0.48968039 0.466057139
## 2830 0.62195122 0.67079208 0.5283607 0.57394199 0.416948062
## 2831 0.50000000 0.53960396 0.4517867 0.52110582 0.614244620
## 2832 0.81707317 0.42574257 0.4710720 0.83987215 0.389590785
## 2833 0.62195122 0.39356436 0.4716393 0.34575651 0.456810494
## 2834 0.62195122 0.63366337 0.4656835 0.49182642 0.309721129
## 2835 0.43902439 0.20792079 0.5167328 0.43694631 0.628389470
## 2836 0.50000000 0.55693069 0.4577425 0.40471253 0.432095474
## 2837 0.34146341 0.51485149 0.4985820 0.48693258 0.514576708
## 2838 0.56097561 0.47524752 0.4906410 0.40501597 0.483135325
## 2839 0.71951220 0.38366337 0.4926262 0.69636247 0.498108830
## 2840 0.46341463 0.53960396 0.4869541 0.43944406 0.509995509
## 2841 0.40243902 0.41336634 0.4914918 0.38767205 0.292988645
## 2842 0.52439024 0.36386139 0.5014180 0.48124102 0.501167889
## 2843 0.40243902 0.66089109 0.4994328 0.38849612 0.386103541
## 2844 0.52439024 0.55198020 0.4957459 0.47115216 0.449722310
## 2845 0.43902439 0.56188119 0.4461146 0.52750868 0.507743939
## 2846 0.71951220 0.41089109 0.4688032 0.63782065 0.354528657
## 2847 0.43902439 0.45792079 0.4914918 0.46725720 0.503049055
## 2848 0.56097561 0.42326733 0.4770278 0.54690540 0.451887252
## 2849 0.56097561 0.61633663 0.4778786 0.58255630 0.245613683
## 2850 0.37804878 0.50990099 0.4883721 0.40971667 0.346384947
## 2851 0.68292683 0.31435644 0.4895065 0.58298753 0.459186365
## 2852 0.41463415 0.42326733 0.4835508 0.60803740 0.515495422
## 2853 0.56097561 0.40594059 0.4880885 0.49772800 0.664992043
## 2854 0.50000000 0.52970297 0.4849688 0.48401028 0.495157141
## 2855 0.43902439 0.42574257 0.4829836 0.56661587 0.266703417
## 2856 0.50000000 0.48267327 0.4863868 0.42159238 0.483922736
```

```
## 2857 0.65853659 0.46782178 0.4880885 0.54320349 0.416850333
## 2858 0.56097561 0.28960396 0.4980147 0.68412377 0.527441325
## 2859 0.41463415 0.50247525 0.4931934 0.44581639 0.391950030
## 2860 0.69512195 0.40841584 0.4861032 0.49858857 0.751696722
## 2861 0.80487805 0.34405941 0.4764606 0.62431868 0.431096254
## 2862 0.46341463 0.44059406 0.4180374 0.36058462 0.256941817
## 2863 0.50000000 0.54455446 0.4985820 0.47022825 0.247020307
## 2864 0.31707317 0.54702970 0.4798639 0.44453551 0.437236761
## 2865 0.53658537 0.48762376 0.5686330 0.54643378 0.339929228
## 2866 0.36585366 0.55445545 0.4980147 0.44513654 0.439485288
## 2867 0.59756098 0.42326733 0.4784458 0.50650109 0.372498688
## 2868 0.35365854 0.58168317 0.5034033 0.40055247 0.484603672
## 2869 0.50000000 0.35643564 0.4920590 0.50547770 0.248280354
## 2870 0.50000000 0.14108911 0.3372093 0.41744494 0.389782310
## 2871 0.53658537 0.57425743 0.5141804 0.46516330 0.652256769
## 2872 0.56097561 0.36633663 0.4829836 0.49448907 0.636420748
## 2873 0.40243902 0.38366337 0.4920590 0.47474480 0.553574268
## 2874 0.56097561 0.26485149 0.4974475 0.56389201 0.636333839
## 2875 0.43902439 0.54207921 0.4733409 0.62805719 0.538385076
## 2876 0.43902439 0.56930693 0.4750425 0.56147230 0.566386509
## 2877 0.40243902 0.48019802 0.4863868 0.49962489 0.487988755
## 2878 0.47560976 0.36633663 0.4730573 0.61798080 0.475465471
## 2879 0.43902439 0.50247525 0.4676687 0.33032387 0.376643653
## 2880 0.47560976 0.42079208 0.4946115 0.52000361 0.380700407
## 2881 0.46341463 0.37128713 0.4974475 0.32619975 0.425265676
## 2882 0.69512195 0.32425743 0.4866704 0.51528853 0.774863751
## 2883 0.37804878 0.62623762 0.4954623 0.46862766 0.250350344
## 2884 0.62195122 0.50000000 0.4645491 0.59819242 0.715529118
## 2885 0.46341463 0.51237624 0.4997164 0.41326760 0.517382967
## 2886 0.40243902 0.50495050 0.4912082 0.50522375 0.495374125
## 2887 0.46341463 0.59653465 0.4914918 0.50266409 0.515545533
## 2888 0.62195122 0.12128713 0.4807147 0.61465432 0.496035812
## 2889 0.47560976 0.45049505 0.4826999 0.32739427 0.154168340
## 2890 0.62195122 0.26732673 0.4832672 0.58795445 0.556619471
## 2891 0.56097561 0.36386139 0.5039705 0.56161982 0.394642276
## 2892 0.46341463 0.56930693 0.5017016 0.40133576 0.478129497
## 2893 0.62195122 0.49009901 0.4736245 0.72637180 0.540649066
## 2894 0.56097561 0.39851485 0.4758934 0.45613706 0.398383122
## 2895 0.50000000 0.33168317 0.4197391 0.53512660 0.452807848
## 2896 0.65853659 0.25247525 0.4651163 0.60407803 0.397566327
## 2897 0.46341463 0.29207921 0.4722065 0.71901606 0.464682200
## 2898 0.43902439 0.37128713 0.4812819 0.40460269 0.372828573
## 2899 0.59756098 0.46287129 0.4707884 0.67958651 0.528512888
## 2900 0.37804878 0.32178218 0.4807147 0.51406714 0.818547815
## 2901 0.46341463 0.51485149 0.5110607 0.52534114 0.387329591
## 2902 0.46341463 0.68316832 0.4801475 0.42306916 0.440994420
## 2903 0.40243902 0.58168317 0.4889393 0.43381765 0.448961815
## 2904 0.58536585 0.35148515 0.5011344 0.67538646 0.686996035
## 2905 0.37804878 0.58415842 0.4937606 0.37752767 0.501029122
## 2906 0.50000000 0.54207921 0.4824163 0.46174825 0.300620169
## 2907 0.41463415 0.49504950 0.4773114 0.59483552 0.483458036
## 2908 0.40243902 0.46782178 0.5036869 0.50698282 0.571698653
## 2909 0.40243902 0.44801980 0.4693704 0.64863968 0.531753412
## 2910 0.56097561 0.50990099 0.4880885 0.43733212 0.673711728
## 2911 0.43902439 0.21039604 0.5093590 0.43899006 0.621890225
## 2912 0.25609756 0.50000000 0.4872377 0.38859316 0.686340552
## 2913 0.41463415 0.56188119 0.4764606 0.52793786 0.507678556
## 2914 0.64634146 0.33415842 0.4909246 0.68498307 0.533388770
```

```
## 2915 0.53658537 0.68316832 0.4985820 0.33916856 0.306485351
## 2916 0.47560976 0.52722772 0.4781622 0.56834163 0.682374823
## 2917 0.52439024 0.29950495 0.5065230 0.48822194 0.603090174
## 2918 0.71951220 0.47029703 0.4866704 0.47031757 0.439476036
## 2919 0.71951220 0.36386139 0.4880885 0.53539696 0.663986155
## 2920 0.62195122 0.49009901 0.4495179 0.66903396 0.660363867
## 2921 0.41463415 0.58168317 0.4965967 0.42586541 0.542183848
## 2922 0.65853659 0.38613861 0.4370391 0.59074064 0.587536712
## 2923 0.59756098 0.47772277 0.5190017 0.62130331 0.635621878
## 2924 0.37804878 0.43316832 0.5011344 0.46094287 0.556974602
## 2925 0.58536585 0.58415842 0.4946115 0.38987861 0.304784490
## 2926 0.69512195 0.48019802 0.4917754 0.69089935 0.616394772
## 2927 0.46341463 0.57920792 0.4878049 0.55734646 0.540730862
## 2928 0.53658537 0.55445545 0.5121951 0.51105634 0.486895983
## 2929 0.52439024 0.53217822 0.4758934 0.45649141 0.515226530
## 2930 0.31707317 0.30198020 0.4889393 0.49290281 0.628286460
## 2931 0.07317073 0.48762376 0.4804311 0.09297401 0.562119371
## 2932 0.52439024 0.32673267 0.4824163 0.63149624 0.626774622
## 2933 0.43902439 0.31930693 0.5014180 0.59103814 0.535686484
## 2934 0.26829268 0.34900990 0.4744753 0.55075524 0.607099532
## 2935 0.37804878 0.42079208 0.5314804 0.52696245 0.520107597
## 2936 0.43902439 0.37623762 0.4580261 0.42525829 0.382885657
## 2937 0.37804878 0.48019802 0.4773114 0.46723776 0.788677152
## 2938 0.34146341 0.50742574 0.4824163 0.16944756 0.311943498
## 2939 0.53658537 0.39603960 0.4832672 0.56782313 0.433337965
## 2940 0.50000000 0.33663366 0.4923426 0.59109866 0.455629738
## 2941 0.40243902 0.51732673 0.4773114 0.46177302 0.486157830
## 2942 0.46341463 0.49009901 0.4685196 0.63620743 0.380625419
## 2943 0.35365854 0.44554455 0.5017016 0.35741250 0.436198734
## 2944 0.58536585 0.56930693 0.4770278 0.49302524 0.371814273
## 2945 0.52439024 0.74009901 0.4778786 0.58740189 0.395291485
## 2946 0.52439024 0.33168317 0.4923426 0.38557852 0.419141476
## 2947 0.65853659 0.56435644 0.5022689 0.47017560 0.563239757
## 2948 0.50000000 0.63118812 0.4824163 0.46522908 0.469155299
## 2949 0.37804878 0.31435644 0.5042541 0.46501629 0.602704545
## 2950 0.65853659 0.29455446 0.4886557 0.50909500 0.329728030
## 2951 0.34146341 0.52722772 0.4671015 0.39517691 0.488716523
## 2952 0.18292683 0.44059406 0.5019853 0.11536184 0.578414647
## 2953 0.50000000 0.39108911 0.4866704 0.57271299 0.515109562
## 2954 0.43902439 0.41831683 0.4673851 0.45858576 0.473575886
## 2955 0.68292683 0.50000000 0.4775950 0.44433209 0.394537025
## 2956 0.46341463 0.47524752 0.4963131 0.40114302 0.356264708
## 2957 0.46341463 0.49752475 0.4690868 0.54292956 0.474232051
## 2958 0.50000000 0.22524752 0.3321044 0.47136991 0.301120706
## 2959 0.31707317 0.62376238 0.4844016 0.41358260 0.501844572
## 2960 0.64634146 0.41336634 0.4662507 0.60206630 0.317389580
## 2961 0.50000000 0.66831683 0.4540556 0.56608733 0.313577537
## 2962 0.57317073 0.42326733 0.5229722 0.48333306 0.398461104
## 2963 0.62195122 0.30693069 0.5164492 0.57802863 0.428467507
## 2964 0.56097561 0.47277228 0.4832672 0.52097259 0.539300387
## 2965 0.56097561 0.64108911 0.4549064 0.46665529 0.380461464
## 2966 0.59756098 0.37623762 0.4744753 0.55938971 0.506265288
## 2967 0.59756098 0.29702970 0.4943279 0.47548859 0.628300343
## 2968 0.37804878 0.47277228 0.4790130 0.44959631 0.471001218
## 2969 0.24390244 0.59900990 0.5008508 0.19231566 0.541801182
## 2970 0.43902439 0.53217822 0.4824163 0.52137205 0.491512413
## 2971 0.62195122 0.19059406 0.4906410 0.52339147 0.540729425
## 2972 0.37804878 0.52722772 0.4883721 0.44520460 0.311962764
```

```
## 2973 0.50000000 0.40346535 0.4844016 0.49293443 0.414591475
## 2974 0.65853659 0.41336634 0.4801475 0.56082418 0.627029336
## 2975 0.34146341 0.44801980 0.4795803 0.28299497 0.484008058
## 2976 0.50000000 0.36633663 0.5141804 0.39851356 0.591018415
## 2977 0.53658537 0.34653465 0.4753261 0.54074475 0.623133489
## 2978 0.34146341 0.43564356 0.4773114 0.28700728 0.591441571
## 2979 0.47560976 0.20544554 0.5062394 0.48759003 0.590916415
## 2980 0.59756098 0.27722772 0.4719229 0.61993015 0.559861901
## 2981 0.43902439 0.41089109 0.5087918 0.43774685 0.480667819
## 2982 0.40243902 0.58168317 0.4917754 0.43501858 0.454119724
## 2983 0.65853659 0.28960396 0.4764606 0.63426747 0.494304749
## 2984 0.78048780 0.47029703 0.4818491 0.74557097 0.433042797
## 2985 0.56097561 0.34158416 0.4844016 0.54895893 0.454735768
## 2986 0.34146341 0.69554455 0.4846852 0.45392486 0.538273224
## 2987 0.37804878 0.41584158 0.4903573 0.28664147 0.676706988
## 2988 0.56097561 0.53465347 0.4880885 0.45796920 0.414908796
## 2989 0.46341463 0.47772277 0.5031197 0.43144879 0.519303069
## 2990 0.31707317 0.52475248 0.4849688 0.50741936 0.517280216
## 2991 0.46341463 0.53712871 0.4858196 0.30159936 0.424096934
## 2992 0.58536585 0.25742574 0.4713556 0.68310639 0.702430611
## 2993 0.41463415 0.41584158 0.4804311 0.38456588 0.431651026
## 2994 0.46341463 0.54702970 0.4948951 0.41368507 0.551101882
## 2995 0.47560976 0.53217822 0.5002836 0.47417097 0.519511403
## 2996 0.78048780 0.46039604 0.4821327 0.73947692 0.466581790
## 2997 0.21951220 0.34158416 0.4608622 0.09320664 0.436626321
## 2998 0.47560976 0.45049505 0.4656835 0.43637825 0.439924386
## 2999 0.40243902 0.40594059 0.5065230 0.41177886 0.389607373
## 3000 0.43902439 0.45297030 0.4611458 0.59127351 0.410007692
## 3001 0.43902439 0.51980198 0.4795803 0.50531318 0.392686364
## 3002 0.37804878 0.61386139 0.4934770 0.47456389 0.439567265
## 3003 0.50000000 0.46782178 0.4880885 0.46076242 0.473318065
## 3004 0.65853659 0.48762376 0.4889393 0.71856758 0.453854254
## 3005 0.68292683 0.38613861 0.4710720 0.66507213 0.569764846
## 3006 0.56097561 0.27970297 0.5000000 0.37019253 0.474105371
## 3007 0.46341463 0.50495050 0.4787294 0.47564939 0.448626214
## 3008 0.62195122 0.45792079 0.4946115 0.45488530 0.452090460
## 3009 0.50000000 0.46287129 0.4804311 0.44838519 0.356137684
## 3010 0.50000000 0.67326733 0.4784458 0.49138298 0.421435129
## 3011 0.62195122 0.29702970 0.4617130 0.60323559 0.364647169
## 3012 0.34146341 0.44306931 0.4764606 0.44946647 0.461168615
## 3013 0.69512195 0.54455446 0.4818491 0.48000504 0.406787108
## 3014 0.21951220 0.34158416 0.4724901 0.22070659 0.490216505
## 3015 0.59756098 0.48267327 0.4841180 0.48540229 0.693222739
## 3016 0.52439024 0.43316832 0.4741917 0.39290649 0.327717243
## 3017 0.62195122 0.43316832 0.4931934 0.57458627 0.415990756
## 3018 0.50000000 0.45544554 0.4829836 0.50419241 0.575743902
## 3019 0.53658537 0.37871287 0.4889393 0.58335015 0.594713981
## 3020 0.47560976 0.48762376 0.4844016 0.56527605 0.454677283
## 3021 0.47560976 0.63366337 0.4719229 0.51966947 0.335356017
## 3022 0.74390244 0.44059406 0.4903573 0.60086475 0.492113799
## 3023 0.64634146 0.63118812 0.5181509 0.78220358 0.502772185
## 3024 0.53658537 0.45297030 0.4900737 0.54937364 0.551513176
## 3025 0.43902439 0.45049505 0.4835508 0.39596490 0.417896697
## 3026 0.56097561 0.47772277 0.4869541 0.57974536 0.506634113
## 3027 0.43902439 0.38613861 0.4878049 0.42513821 0.500625888
## 3028 0.69512195 0.43564356 0.4809983 0.53956455 0.468403384
## 3029 0.50000000 0.51980198 0.4895065 0.67783679 0.426655804
## 3030 0.40243902 0.40594059 0.4897901 0.41760361 0.485044513
```

```
## 3031 0.50000000 0.60148515 0.4872377 0.63848708 0.376592786
## 3032 0.41463415 0.15346535 0.5008508 0.63588560 0.640142105
## 3033 0.75609756 0.30940594 0.4846852 0.83153957 0.438520573
## 3034 0.47560976 0.52475248 0.4605786 0.56887474 0.385652953
## 3035 0.37804878 0.44059406 0.4943279 0.33101311 0.549745069
## 3036 0.43902439 0.50742574 0.5082246 0.25466391 0.266566338
## 3037 0.41463415 0.55940594 0.4818491 0.47627209 0.425707637
## 3038 0.40243902 0.58168317 0.4948951 0.39386090 0.463783731
## 3039 0.52439024 0.60396040 0.4977311 0.44094052 0.509792259
## 3040 0.31707317 0.43564356 0.4914918 0.35655657 0.676517383
## 3041 0.40243902 0.58663366 0.4948951 0.39351923 0.539737855
## 3042 0.28048780 0.35396040 0.4625638 0.13319746 0.408698244
## 3043 0.46341463 0.31930693 0.3536585 0.37090399 0.239624063
## 3044 0.52439024 0.56435644 0.5002836 0.55507529 0.324880697
## 3045 0.59756098 0.48267327 0.5116279 0.44365860 0.523785872
## 3046 0.50000000 0.37871287 0.4835508 0.47969561 0.464089914
## 3047 0.37804878 0.55445545 0.4807147 0.60302892 0.476471368
## 3048 0.43902439 0.45544554 0.4129325 0.42010489 0.547400512
## 3049 0.47560976 0.26980198 0.4812819 0.48203742 0.490840486
## 3050 0.68292683 0.35396040 0.4883721 0.58074614 0.405695365
## 3051 0.28048780 0.61138614 0.4906410 0.40539447 0.402697370
## 3052 0.56097561 0.52722772 0.4826999 0.43106117 0.438472624
## 3053 0.58536585 0.51980198 0.4895065 0.61906037 0.511087480
## 3054 0.50000000 0.36633663 0.4889393 0.53364371 0.297660740
## 3055 0.46341463 0.50495050 0.5065230 0.56246797 0.449192392
## 3056 0.43902439 0.34405941 0.5070902 0.56415594 0.548621433
## 3057 0.50000000 0.68316832 0.4648327 0.50301827 0.431413429
## 3058 0.37804878 0.41584158 0.4914918 0.36429580 0.400090406
## 3059 0.37804878 0.50990099 0.4931934 0.48960131 0.405734803
## 3060 0.34146341 0.64603960 0.4807147 0.48846286 0.370182019
## 3061 0.41463415 0.28465347 0.4722065 0.44345463 0.618015815
## 3062 0.19512195 0.30693069 0.4588769 0.23926411 0.451966367
## 3063 0.63414634 0.43316832 0.4767442 0.63196167 0.473931760
## 3064 0.34146341 0.69306931 0.4710720 0.44488121 0.302736563
## 3065 0.53658537 0.45544554 0.4829836 0.47037387 0.489377213
## 3066 0.37804878 0.51732673 0.4965967 0.28287198 0.483863138
## 3067 0.62195122 0.33415842 0.4676687 0.63890499 0.396871415
## 3068 0.37804878 0.48267327 0.4920590 0.34043456 0.541207296
## 3069 0.71951220 0.47029703 0.4914918 0.62358406 0.479174040
## 3070 0.52439024 0.55445545 0.4883721 0.58477305 0.333267224
## 3071 0.50000000 0.35643564 0.4540556 0.43049589 0.279425937
## 3072 0.46341463 0.67821782 0.4931934 0.49551048 0.457495639
## 3073 0.31707317 0.53960396 0.4963131 0.45161682 0.364902874
## 3074 0.50000000 0.50742574 0.5082246 0.42607013 0.644791566
## 3075 0.34146341 0.46782178 0.4858196 0.51743927 0.484468216
## 3076 0.40243902 0.53465347 0.4835508 0.45193702 0.427231981
## 3077 0.35365854 0.56930693 0.4982984 0.35020861 0.491725110
## 3078 0.46341463 0.35643564 0.4869541 0.40517166 0.510535216
## 3079 0.46341463 0.40346535 0.4798639 0.45377595 0.189083672
## 3080 0.56097561 0.48514851 0.4872377 0.60881722 0.529125340
## 3081 0.63414634 0.36633663 0.4869541 0.49268715 0.549218827
## 3082 0.41463415 0.52722772 0.4875213 0.41685797 0.462928292
## 3083 0.53658537 0.57920792 0.4866704 0.65513126 0.523703810
## 3084 0.59756098 0.50990099 0.4875213 0.59157207 0.388181580
## 3085 0.47560976 0.60148515 0.4861032 0.53352490 0.429671130
## 3086 0.52439024 0.46782178 0.4861032 0.60825161 0.424277934
## 3087 0.40243902 0.50990099 0.4971639 0.38553715 0.347191061
## 3088 0.59756098 0.31930693 0.4549064 0.42900904 0.604678673
```

```
## 3089 0.68292683 0.63118812 0.4912082 0.85424574 0.441708928
## 3090 0.43902439 0.40594059 0.4781622 0.48344369 0.548586773
## 3091 0.40243902 0.37871287 0.4875213 0.56112223 0.483419798
## 3092 0.50000000 0.48267327 0.4798639 0.49225923 0.347670271
## 3093 0.50000000 0.49257426 0.4846852 0.52883476 0.503089207
## 3094 0.15853659 0.62623762 0.4872377 0.45561511 0.256142536
## 3095 0.31707317 0.20049505 0.4838344 0.53979836 0.674579285
## 3096 0.52439024 0.66584158 0.4858196 0.54569113 0.642898846
## 3097 0.62195122 0.69306931 0.4849688 0.54908213 0.383102004
## 3098 0.41463415 0.56930693 0.4855360 0.33140194 0.271671423
## 3099 0.37804878 0.72029703 0.4954623 0.47521005 0.565172548
## 3100 0.62195122 0.36881188 0.4829836 0.58030767 0.591840533
## 3101 0.62195122 0.44306931 0.4849688 0.61536196 0.602497612
## 3102 0.40243902 0.69801980 0.4900737 0.48164519 0.513087851
## 3103 0.50000000 0.49752475 0.4608622 0.73364203 0.370720777
## 3104 0.50000000 0.45049505 0.4781622 0.52224316 0.176019495
## 3105 0.47560976 0.37128713 0.4858196 0.53196028 0.544414091
## 3106 0.43902439 0.41584158 0.5011344 0.49092610 0.605418679
## 3107 0.12195122 0.46782178 0.5039705 0.13620679 0.522569517
## 3108 0.53658537 0.34158416 0.4903573 0.57312856 0.430039004
## 3109 0.58536585 0.49752475 0.4688032 0.59042753 0.575169816
## 3110 0.34146341 0.51732673 0.4821327 0.60890105 0.302197244
## 3111 0.43902439 0.64851485 0.4912082 0.44641663 0.519794126
## 3112 0.56097561 0.42326733 0.4758934 0.55055064 0.457348622
## 3113 0.46341463 0.32425743 0.4702212 0.63027270 0.470572339
## 3114 0.56097561 0.39108911 0.4693704 0.51364462 0.381382316
## 3115 0.40243902 0.42821782 0.5011344 0.44774790 0.584856895
## 3116 0.56097561 0.46287129 0.5008508 0.58759757 0.655850553
## 3117 0.52439024 0.41584158 0.5028361 0.48074143 0.521315545
## 3118 0.50000000 0.59653465 0.4753261 0.73191975 0.501353053
## 3119 0.58536585 0.60891089 0.4818491 0.50868570 0.355700387
## 3120 0.24390244 0.55940594 0.4914918 0.16398726 0.454637135
## 3121 0.56097561 0.43564356 0.4733409 0.61247588 0.485320976
## 3122 0.40243902 0.52970297 0.4767442 0.58206588 0.373665267
## 3123 0.31707317 0.58168317 0.4846852 0.42162334 0.540268303
## 3124 0.50000000 0.50495050 0.4948951 0.53403687 0.525386031
## 3125 0.46341463 0.42821782 0.4895065 0.23580219 0.511078274
## 3126 0.21951220 0.46287129 0.4943279 0.26555878 0.515261052
## 3127 0.62195122 0.50742574 0.4909246 0.46987323 0.453571961
## 3128 0.40243902 0.56683168 0.5056721 0.50104298 0.608932129
## 3129 0.28048780 0.53217822 0.4832672 0.40605434 0.403884467
## 3130 0.56097561 0.33663366 0.4651163 0.52546537 0.390569864
## 3131 0.75609756 0.38613861 0.4611458 0.76788810 0.355386845
## 3132 0.50000000 0.59653465 0.4863868 0.46771233 0.424129420
## 3133 0.43902439 0.44306931 0.4764606 0.43128424 0.289930321
## 3134 0.43902439 0.55693069 0.4869541 0.38267375 0.455922799
## 3135 0.52439024 0.37871287 0.4617130 0.67466208 0.573780184
## 3136 0.56097561 0.31435644 0.4676687 0.54566084 0.511912438
## 3137 0.19512195 0.43316832 0.5425411 0.24268259 0.590939088
## 3138 0.59756098 0.48019802 0.4971639 0.52002193 0.444848961
## 3139 0.62195122 0.51980198 0.5062394 0.58047140 0.218403392
## 3140 0.53658537 0.37376238 0.4863868 0.38643376 0.440421970
## 3141 0.56097561 0.32425743 0.4801475 0.41509857 0.502336047
## 3142 0.59756098 0.29207921 0.4906410 0.49027307 0.327873857
## 3143 0.53658537 0.61633663 0.5022689 0.52333243 0.321876503
## 3144 0.43902439 0.35148515 0.4994328 0.42994297 0.494879421
## 3145 0.53658537 0.31188119 0.4997164 0.40124183 0.480452740
## 3146 0.65853659 0.39851485 0.4688032 0.61242166 0.433231332
```

```
## 3147 0.31707317 0.37871287 0.4960295 0.48708650 0.619642913
## 3148 0.58536585 0.58910891 0.4790130 0.44167381 0.504480002
## 3149 0.43902439 0.46534653 0.4809983 0.45444449 0.453373281
## 3150 0.40243902 0.52227723 0.5144640 0.35802836 0.489871661
## 3151 0.40243902 0.50990099 0.5053885 0.32461639 0.546719834
## 3152 0.56097561 0.40099010 0.4631310 0.40555256 0.396263752
## 3153 0.53658537 0.41089109 0.4767442 0.55115191 0.689063391
## 3154 0.40243902 0.49504950 0.4733409 0.59173836 0.604142198
## 3155 0.80487805 0.42574257 0.4600113 0.69270565 0.329276742
## 3156 0.59756098 0.57920792 0.4614294 0.69470925 0.334999749
## 3157 0.62195122 0.32920792 0.4078276 0.51010662 0.546957833
## 3158 0.78048780 0.47277228 0.4747589 0.73840372 0.429281405
## 3159 0.68292683 0.29455446 0.4662507 0.72100336 0.420649087
## 3160 0.46341463 0.41336634 0.5000000 0.52996609 0.366976002
## 3161 0.40243902 0.56683168 0.5138968 0.42539991 0.446762204
## 3162 0.59756098 0.42574257 0.4583097 0.64302709 0.500367269
## 3163 0.52439024 0.51237624 0.5073738 0.58519773 0.349377808
## 3164 0.41463415 0.43564356 0.5019853 0.42132148 0.434335170
## 3165 0.54878049 0.32178218 0.5204197 0.58087021 0.590617342
## 3166 0.64634146 0.39356436 0.4744753 0.65083264 0.484519125
## 3167 0.62195122 0.41089109 0.4682360 0.62490576 0.556578138
## 3168 0.62195122 0.43564356 0.5059558 0.55552775 0.573856711
## 3169 0.41463415 0.35148515 0.4940442 0.50010592 0.554663721
## 3170 0.68292683 0.35891089 0.4639818 0.76456854 0.277733137
## 3171 0.59756098 0.44801980 0.4778786 0.42600798 0.741205320
## 3172 0.52439024 0.55693069 0.5053885 0.45608785 0.597164690
## 3173 0.41463415 0.62128713 0.4744753 0.37727577 0.386358723
## 3174 0.43902439 0.45297030 0.4971639 0.18358145 0.439450568
## 3175 0.40243902 0.60396040 0.4784458 0.41292288 0.306184473
## 3176 0.56097561 0.66584158 0.4713556 0.69245121 0.211426007
## 3177 0.50000000 0.44059406 0.5124787 0.51498585 0.640173958
## 3178 0.43902439 0.57425743 0.5059558 0.48863806 0.463074795
## 3179 0.37804878 0.47029703 0.4815655 0.52154723 0.635999843
## 3180 0.58536585 0.34405941 0.4611458 0.70438524 0.477617784
## 3181 0.21951220 0.28712871 0.4622802 0.17364886 0.466363305
## 3182 0.71951220 0.50990099 0.4770278 0.62613201 0.227306938
## 3183 0.56097561 0.47524752 0.4985820 0.53869024 0.521919113
## 3184 0.41463415 0.42574257 0.4934770 0.51273590 0.407556039
## 3185 0.62195122 0.30445545 0.4574589 0.66195096 0.702893567
## 3186 0.37804878 0.37871287 0.5107771 0.36395713 0.647724006
## 3187 0.56097561 0.56930693 0.4761770 0.53022626 0.478799370
## 3188 0.50000000 0.59900990 0.4821327 0.53846628 0.538360369
## 3189 0.53658537 0.60891089 0.5862167 0.64426688 0.656492530
## 3190 0.52439024 0.38118812 0.5085082 0.53918871 0.249225681
## 3191 0.65853659 0.31930693 0.4863868 0.54804766 0.415007024
## 3192 0.78048780 0.40594059 0.3885423 0.78662960 0.520158988
## 3193 0.56097561 0.50742574 0.4923426 0.48020731 0.612293066
## 3194 0.50000000 0.57673267 0.4653999 0.58661983 0.329345539
## 3195 0.64634146 0.57920792 0.4631310 0.43741329 0.342065237
## 3196 0.50000000 0.47029703 0.4957459 0.47570493 0.494120610
## 3197 0.62195122 0.52227723 0.5017016 0.56044862 0.596846671
## 3198 0.46341463 0.58415842 0.4812819 0.50109752 0.642744904
## 3199 0.46341463 0.33415842 0.4809983 0.29936515 0.484424971
## 3200 0.46341463 0.46039604 0.4980147 0.42926036 0.389114704
## 3201 0.34146341 0.39851485 0.4980147 0.30153153 0.623256481
## 3202 0.56097561 0.57673267 0.5127623 0.72045198 0.753608046
## 3203 0.37804878 0.61633663 0.4960295 0.47372989 0.465484165
## 3204 0.15853659 0.23019802 0.4651163 0.24381797 0.522970287
```

```
## 3205 0.30487805 0.49752475 0.4883721 0.46724605 0.487317948
## 3206 0.41463415 0.62128713 0.5059558 0.47695393 0.384298875
## 3207 0.65853659 0.29207921 0.4923426 0.47773971 0.588773317
## 3208 0.46341463 0.31930693 0.3607487 0.36032650 0.219690480
## 3209 0.50000000 0.50247525 0.4875213 0.36853684 0.646969698
## 3210 0.68292683 0.35643564 0.4926262 0.52957332 0.511171641
## 3211 0.84146341 0.41831683 0.4790130 0.87010214 0.420937678
## 3212 0.31707317 0.55940594 0.4835508 0.40803048 0.479688796
## 3213 0.58536585 0.71287129 0.4682360 0.46271582 0.291986578
## 3214 0.52439024 0.32673267 0.4790130 0.41074290 0.400060644
## 3215 0.31707317 0.50742574 0.4790130 0.47852119 0.479727346
## 3216 0.53658537 0.45049505 0.4682360 0.67392616 0.289083559
## 3217 0.34146341 0.50742574 0.4835508 0.14256764 0.274441863
## 3218 0.43902439 0.57673267 0.5062394 0.49245506 0.652128643
## 3219 0.59756098 0.50247525 0.4790130 0.38490195 0.466799019
## 3220 0.46341463 0.35891089 0.4611458 0.60827750 0.565207776
## 3221 0.50000000 0.40346535 0.4946115 0.36279693 0.550307672
## 3222 0.50000000 0.55198020 0.4844016 0.46798948 0.421333548
## 3223 0.78048780 0.46039604 0.4880885 0.79991861 0.465013683
## 3224 0.58536585 0.52227723 0.4625638 0.63525827 0.331274944
## 3225 0.65853659 0.45544554 0.4897901 0.75992054 0.445762259
## 3226 0.40243902 0.39108911 0.4665343 0.14782008 0.264363711
## 3227 0.40243902 0.53960396 0.4906410 0.56014748 0.410786132
## 3228 0.53658537 0.37623762 0.4875213 0.57426986 0.591754300
## 3229 0.30487805 0.41584158 0.4801475 0.28449596 0.479069867
## 3230 0.53658537 0.55940594 0.4906410 0.74664908 0.486707518
## 3231 0.46341463 0.61138614 0.4858196 0.60209427 0.322779091
## 3232 0.43902439 0.49257426 0.4846852 0.38111339 0.380314623
## 3233 0.53658537 0.44306931 0.4849688 0.51927803 0.604968845
## 3234 0.29268293 0.52722772 0.5243902 0.40790266 0.407626103
## 3235 0.43902439 0.51237624 0.4764606 0.52003062 0.424301823
## 3236 0.62195122 0.42079208 0.4869541 0.65202236 0.653721730
## 3237 0.59756098 0.47029703 0.4968803 0.46730558 0.587448879
## 3238 0.34146341 0.61633663 0.4739081 0.45071227 0.412089198
## 3239 0.56097561 0.53217822 0.4923426 0.46991305 0.506655906
## 3240 0.43902439 0.30198020 0.4914918 0.56516221 0.677763234
## 3241 0.40243902 0.44554455 0.4900737 0.25935546 0.398456065
## 3242 0.62195122 0.62871287 0.4841180 0.55097797 0.385886280
## 3243 0.36585366 0.51237624 0.4826999 0.40477858 0.368797407
## 3244 0.41463415 0.57178218 0.4824163 0.33443910 0.253068378
## 3245 0.29268293 0.45049505 0.4770278 0.48332066 0.382843967
## 3246 0.62195122 0.50495050 0.4503687 0.43028206 0.487431284
## 3247 0.56097561 0.45297030 0.4716393 0.49000952 0.408970416
## 3248 0.29268293 0.56930693 0.5079410 0.33298306 0.284083211
## 3249 0.46341463 0.38366337 0.4739081 0.53528166 0.484291029
## 3250 0.56097561 0.49752475 0.4821327 0.59591873 0.488422982
## 3251 0.41463415 0.58168317 0.5008508 0.42524144 0.548450996
## 3252 0.43902439 0.46287129 0.4809983 0.54171757 0.541476046
## 3253 0.46341463 0.61633663 0.4673851 0.72861958 0.398751083
## 3254 0.58536585 0.45049505 0.4719229 0.51422148 0.377710589
## 3255 0.70731707 0.33415842 0.4668179 0.61279155 0.471811653
## 3256 0.50000000 0.57920792 0.4773114 0.42952206 0.448599699
## 3257 0.47560976 0.38861386 0.4619966 0.48169780 0.303372773
## 3258 0.56097561 0.67326733 0.4929098 0.44783727 0.355137339
## 3259 0.62195122 0.30198020 0.4846852 0.66526694 0.453093558
## 3260 0.52439024 0.57425743 0.4673851 0.51634477 0.398011633
## 3261 0.59756098 0.54455446 0.4948951 0.77870487 0.566935402
## 3262 0.37804878 0.30940594 0.4909246 0.49556653 0.526823614
```

```
## 3263 0.59756098 0.55693069 0.4824163 0.55794446 0.432623768
## 3264 0.41463415 0.51980198 0.5028361 0.40499851 0.568366913
## 3265 0.50000000 0.57178218 0.4795803 0.36921987 0.323873811
## 3266 0.37804878 0.41089109 0.4906410 0.43615996 0.545817420
## 3267 0.43902439 0.31683168 0.4798639 0.49157203 0.541113890
## 3268 0.59756098 0.49752475 0.4393080 0.53677981 0.439286203
## 3269 0.43902439 0.47029703 0.4784458 0.50785845 0.377680893
## 3270 0.58536585 0.39603960 0.4594441 0.66265493 0.709332609
## 3271 0.56097561 0.38118812 0.5147476 0.37811114 0.400086886
## 3272 0.56097561 0.30940594 0.4963131 0.43981049 0.546547946
## 3273 0.37804878 0.35396040 0.4645491 0.45696003 0.426927668
## 3274 0.34146341 0.58663366 0.4756098 0.45127473 0.534208170
## 3275 0.74390244 0.24504950 0.4747589 0.63848893 0.381363217
## 3276 0.42682927 0.54702970 0.4792967 0.42501012 0.567362554
## 3277 0.43902439 0.74009901 0.4722065 0.41778899 0.346665750
## 3278 0.50000000 0.46039604 0.5019853 0.52028924 0.559091527
## 3279 0.56097561 0.41336634 0.4909246 0.63293495 0.454962837
## 3280 0.47560976 0.40841584 0.5002836 0.44098196 0.392336218
## 3281 0.52439024 0.61881188 0.4980147 0.54903324 0.378626940
## 3282 0.30487805 0.64356436 0.5034033 0.56049669 0.160786460
## 3283 0.65853659 0.40346535 0.4730573 0.54190101 0.308498939
## 3284 0.42682927 0.44059406 0.4588769 0.55746479 0.335637522
## 3285 0.46341463 0.29702970 0.4614294 0.58309450 0.423991534
## 3286 0.43902439 0.52722772 0.4656835 0.62853813 0.436312676
## 3287 0.43902439 0.60643564 0.5028361 0.44978634 0.212050070
## 3288 0.41463415 0.32425743 0.4818491 0.36909016 0.516821440
## 3289 0.46341463 0.50247525 0.5011344 0.47566154 0.553005904
## 3290 0.58536585 0.45049505 0.4628474 0.65240374 0.360636285
## 3291 0.35365854 0.49257426 0.4792967 0.45257107 0.236633296
## 3292 0.47560976 0.50990099 0.4917754 0.51923932 0.520925606
## 3293 0.53658537 0.45792079 0.4770278 0.60493968 0.590104873
## 3294 0.56097561 0.62128713 0.4795803 0.53008734 0.477662518
## 3295 0.53658537 0.44306931 0.4546228 0.52330314 0.563502390
## 3296 0.43902439 0.60891089 0.4875213 0.41201251 0.423239270
## 3297 0.43902439 0.43811881 0.4974475 0.39175801 0.254902739
## 3298 0.56097561 0.48267327 0.4722065 0.55708607 0.551414984
## 3299 0.47560976 0.36881188 0.5056721 0.43039649 0.595302411
## 3300 0.43902439 0.36138614 0.4974475 0.35511398 0.566892840
## 3301 0.56097561 0.41089109 0.5096427 0.54766738 0.524546234
## 3302 0.47560976 0.54455446 0.4906410 0.41487056 0.529956811
## 3303 0.56097561 0.34653465 0.4651163 0.51352610 0.481462099
## 3304 0.50000000 0.56930693 0.4741917 0.46373293 0.435575960
## 3305 0.40243902 0.59405941 0.4968803 0.37856410 0.333975914
## 3306 0.59756098 0.39108911 0.4778786 0.55447919 0.376847133
## 3307 0.58536585 0.40841584 0.4829836 0.58109793 0.470649753
## 3308 0.47560976 0.33168317 0.4957459 0.40261631 0.568673682
## 3309 0.37804878 0.39603960 0.4982984 0.36316033 0.480872231
## 3310 0.62195122 0.45297030 0.4724901 0.52701159 0.448310996
## 3311 0.41463415 0.41336634 0.4997164 0.36763435 0.598321189
## 3312 0.46341463 0.49257426 0.4730573 0.47448807 0.419600496
## 3313 0.50000000 0.31683168 0.5031197 0.36332551 0.584643387
## 3314 0.41463415 0.50990099 0.5181509 0.48228406 0.665298258
## 3315 0.56097561 0.27227723 0.4716393 0.61990065 0.592416245
## 3316 0.52439024 0.48267327 0.4818491 0.58424340 0.602544301
## 3317 0.58536585 0.43564356 0.4909246 0.44940800 0.445460765
## 3318 0.43902439 0.42821782 0.4775950 0.50382322 0.350128571
## 3319 0.34146341 0.57425743 0.4883721 0.45910241 0.503774040
## 3320 0.43902439 0.21039604 0.5056721 0.42159292 0.669091618
```

```
## 3321 0.52439024 0.50495050 0.4835508 0.44264621 0.440881834
## 3322 0.50000000 0.62376238 0.4872377 0.39140235 0.640108797
## 3323 0.52439024 0.55445545 0.4880885 0.57995146 0.348188099
## 3324 0.41463415 0.59158416 0.5068066 0.29455878 0.499725382
## 3325 0.50000000 0.63366337 0.4733409 0.56755374 0.474352243
## 3326 0.56097561 0.62128713 0.4563244 0.68714551 0.287162730
## 3327 0.43902439 0.31435644 0.5025525 0.49140516 0.351355125
## 3328 0.47560976 0.36386139 0.5011344 0.48888135 0.544335456
## 3329 0.46341463 0.50990099 0.5399887 0.49584967 0.414128067
## 3330 0.47560976 0.60891089 0.4608622 0.63393469 0.584971429
## 3331 0.59756098 0.42326733 0.5113443 0.62960310 0.433071601
## 3332 0.50000000 0.54455446 0.4926262 0.39985334 0.496057024
## 3333 0.46341463 0.66089109 0.4733409 0.51892773 0.351782053
## 3334 0.31707317 0.55940594 0.4807147 0.57007793 0.397713488
## 3335 0.52439024 0.48762376 0.4829836 0.37010096 0.390276411
## 3336 0.30487805 0.55693069 0.4815655 0.38824037 0.389954358
## 3337 0.41463415 0.42574257 0.4784458 0.47141732 0.544094440
## 3338 0.43902439 0.45049505 0.4631310 0.34537953 0.714130517
## 3339 0.41463415 0.51485149 0.4994328 0.48414498 0.510800656
## 3340 0.36585366 0.58168317 0.4773114 0.23010914 0.381399966
## 3341 0.58536585 0.31435644 0.4705048 0.52499745 0.542049128
## 3342 0.53658537 0.34405941 0.4889393 0.44069380 0.266643067
## 3343 0.71951220 0.42079208 0.4733409 0.53503736 0.435097919
## 3344 0.47560976 0.63613861 0.4736245 0.50165640 0.327607655
## 3345 0.31707317 0.47029703 0.5056721 0.37505983 0.361905189
## 3346 0.46341463 0.35396040 0.4841180 0.31154376 0.470994147
## 3347 0.50000000 0.53712871 0.4248440 0.50244610 0.430234181
## 3348 0.56097561 0.48762376 0.4826999 0.70354016 0.545035392
## 3349 0.65853659 0.32673267 0.5226886 0.58747477 0.504640784
## 3350 0.15853659 0.60396040 0.4920590 0.33623726 0.521248577
## 3351 0.53658537 0.39356436 0.4770278 0.61812652 0.433697088
## 3352 0.74390244 0.43564356 0.4812819 0.61008427 0.268575795
## 3353 0.35365854 0.56930693 0.4948951 0.35419506 0.521445202
## 3354 0.56097561 0.33910891 0.4634146 0.72289989 0.577506175
## 3355 0.53658537 0.43069307 0.4997164 0.51728886 0.459924115
## 3356 0.59756098 0.42326733 0.4815655 0.55504338 0.258543046
## 3357 0.43902439 0.73762376 0.4710720 0.58681875 0.430151130
## 3358 0.37804878 0.38613861 0.4883721 0.31608068 0.542887939
## 3359 0.62195122 0.54950495 0.4906410 0.52621789 0.552390374
## 3360 0.56097561 0.52475248 0.4869541 0.58910891 0.464153137
## 3361 0.37804878 0.60148515 0.5022689 0.37474124 0.570993024
## 3362 0.40243902 0.47772277 0.4844016 0.58854208 0.513565808
## 3363 0.53658537 0.57920792 0.4869541 0.64995510 0.523072713
## 3364 0.43902439 0.70297030 0.4855360 0.61518029 0.405042727
## 3365 0.68292683 0.33910891 0.4849688 0.63552806 0.507224868
## 3366 0.52439024 0.39356436 0.4895065 0.49351121 0.514412120
## 3367 0.56097561 0.44306931 0.4858196 0.62199008 0.552040364
## 3368 0.40243902 0.42574257 0.4940442 0.48461596 0.246069301
## 3369 0.37804878 0.63118812 0.4869541 0.34528292 0.453312493
## 3370 0.64634146 0.55940594 0.4807147 0.52964205 0.195974935
## 3371 0.40243902 0.39851485 0.4809983 0.36071099 0.364701960
## 3372 0.64634146 0.39356436 0.4846852 0.52332277 0.401023691
## 3373 0.42682927 0.73019802 0.4858196 0.36030136 0.536786865
## 3374 0.50000000 0.52722772 0.4951787 0.45649566 0.354042068
## 3375 0.40243902 0.44306931 0.5019853 0.27843585 0.627864788
## 3376 0.52439024 0.56435644 0.4957459 0.54149799 0.334243702
## 3377 0.37804878 0.30940594 0.4906410 0.39189612 0.476337541
## 3378 0.62195122 0.45049505 0.4696540 0.60117090 0.466010875
```

```
## 3379 0.37804878 0.30693069 0.4739081 0.59828284 0.251490005
## 3380 0.37804878 0.41336634 0.4838344 0.36083428 0.526070145
## 3381 0.43902439 0.53960396 0.4807147 0.59944986 0.628775726
## 3382 0.64634146 0.53712871 0.4832672 0.62620352 0.427429302
## 3383 0.40243902 0.64356436 0.4832672 0.51369796 0.609987868
## 3384 0.40243902 0.51485149 0.4628474 0.37657274 0.501537966
## 3385 0.37804878 0.31435644 0.5031197 0.44945018 0.620140765
## 3386 0.52439024 0.49257426 0.4875213 0.39993035 0.449437237
## 3387 0.53658537 0.34158416 0.4835508 0.50780701 0.382262841
## 3388 0.53658537 0.54207921 0.4997164 0.51734075 0.704128777
## 3389 0.62195122 0.42574257 0.4756098 0.51929610 0.326068200
## 3390 0.62195122 0.50742574 0.4824163 0.75197400 0.527130217
## 3391 0.63414634 0.29950495 0.4798639 0.59339851 0.408056264
## 3392 0.24390244 0.68564356 0.4778786 0.22188362 0.433249788
## 3393 0.56097561 0.37623762 0.4724901 0.58586287 0.750093644
## 3394 0.50000000 0.25247525 0.5014180 0.31522636 0.665312455
## 3395 0.46341463 0.54950495 0.4951787 0.39880622 0.465529923
## 3396 0.43902439 0.73762376 0.4739081 0.58439550 0.425314668
## 3397 0.40243902 0.44801980 0.4685196 0.63986365 0.514333060
## 3398 0.43902439 0.62871287 0.4773114 0.54847116 0.574569357
## 3399 0.37804878 0.35148515 0.4963131 0.28973886 0.542378341
## 3400 0.40243902 0.56930693 0.4977311 0.47033227 0.530972214
## 3401 0.43902439 0.35891089 0.4724901 0.50396826 0.640863097
## 3402 0.50000000 0.36138614 0.4923426 0.40864690 0.584275909
## 3403 0.56097561 0.53465347 0.4912082 0.51248343 0.505331428
## 3404 0.59756098 0.36881188 0.4792967 0.38862965 0.341007365
## 3405 0.40243902 0.41584158 0.4671015 0.52406915 0.527217937
## 3406 0.56097561 0.54207921 0.4863868 0.62621659 0.416097329
## 3407 0.34146341 0.56683168 0.4764606 0.57031774 0.515685268
## 3408 0.62195122 0.51980198 0.4855360 0.54310605 0.293003784
## 3409 0.43902439 0.53960396 0.4534884 0.48099300 0.486450808
## 3410 0.41463415 0.51980198 0.4895065 0.46139553 0.484811257
## 3411 0.47560976 0.51732673 0.4866704 0.70780806 0.625733514
## 3412 0.34146341 0.47772277 0.4824163 0.25365007 0.504013190
## 3413 0.52439024 0.49752475 0.4770278 0.65920395 0.441371387
## 3414 0.52439024 0.48267327 0.4512195 0.55579093 0.471209456
## 3415 0.65853659 0.48019802 0.4917754 0.72591042 0.604765264
## 3416 0.64634146 0.53465347 0.4730573 0.64704183 0.388388675
## 3417 0.68292683 0.34158416 0.4849688 0.62808535 0.496497734
## 3418 0.40243902 0.29702970 0.4268293 0.38392469 0.158245644
## 3419 0.46341463 0.59405941 0.4764606 0.58951416 0.554687910
## 3420 0.31707317 0.53960396 0.4957459 0.33705608 0.609982761
## 3421 0.40243902 0.54455446 0.4787294 0.53860659 0.566216526
## 3422 0.40243902 0.37376238 0.4863868 0.56071116 0.368664684
## 3423 0.50000000 0.33168317 0.4753261 0.53160494 0.396320864
## 3424 0.43902439 0.42079208 0.4861032 0.56976395 0.232164107
## 3425 0.43902439 0.48267327 0.5028361 0.51559272 0.536467051
## 3426 0.65853659 0.33168317 0.4801475 0.67018795 0.429516998
## 3427 0.50000000 0.56683168 0.4679524 0.55608552 0.354410296
## 3428 0.43902439 0.45049505 0.4801475 0.57391988 0.441271893
## 3429 0.50000000 0.60643564 0.4628474 0.36809211 0.215328644
## 3430 0.50000000 0.38118812 0.5008508 0.39747207 0.442843540
## 3431 0.65853659 0.52722772 0.4892229 0.60205496 0.705237833
## 3432 0.56097561 0.50495050 0.4832672 0.58675246 0.316123058
## 3433 0.41463415 0.44306931 0.4809983 0.37415837 0.287012542
## 3434 0.70731707 0.49504950 0.4844016 0.59900942 0.556672171
## 3435 0.50000000 0.40099010 0.4722065 0.59049158 0.534661203
## 3436 0.50000000 0.31435644 0.4948951 0.43708708 0.359333799
```

```
## 3437 0.50000000 0.44306931 0.4804311 0.50887926 0.474455227
## 3438 0.68292683 0.26732673 0.4117981 0.56903396 0.265297936
## 3439 0.62195122 0.37128713 0.5102099 0.53013863 0.549437884
## 3440 0.47560976 0.17821782 0.4971639 0.60660865 0.632923536
## 3441 0.46341463 0.37871287 0.4724901 0.48335420 0.411989606
## 3442 0.63414634 0.30198020 0.4753261 0.67502784 0.438865530
## 3443 0.68292683 0.47772277 0.4855360 0.76630315 0.542487376
## 3444 0.59756098 0.50990099 0.5181509 0.48276416 0.556135296
## 3445 0.47560976 0.37623762 0.4699376 0.57963135 0.500704910
## 3446 0.43902439 0.58168317 0.4773114 0.46742650 0.571886456
## 3447 0.46341463 0.54207921 0.4926262 0.38231973 0.504836665
## 3448 0.37804878 0.41584158 0.5028361 0.41235988 0.531497253
## 3449 0.65853659 0.25000000 0.4699376 0.58804730 0.390646744
## 3450 0.43902439 0.43069307 0.4778786 0.49871666 0.347108319
## 3451 0.37804878 0.46039604 0.4792967 0.45070964 0.586414353
## 3452 0.31707317 0.44554455 0.4682360 0.44486010 0.462716535
## 3453 0.40243902 0.45792079 0.4968803 0.28778630 0.600908738
## 3454 0.37804878 0.55198020 0.4614294 0.46386441 0.342707934
## 3455 0.43902439 0.34900990 0.4954623 0.46213234 0.595831500
## 3456 0.68292683 0.39851485 0.4792967 0.65745030 0.459795222
## 3457 0.52439024 0.39356436 0.4784458 0.59392011 0.412964341
## 3458 0.46341463 0.57425743 0.4798639 0.36437472 0.600721432
## 3459 0.56097561 0.49257426 0.4520703 0.51811357 0.354405006
## 3460 0.50000000 0.42821782 0.4863868 0.45614478 0.372855687
## 3461 0.65853659 0.42574257 0.4858196 0.55567708 0.506674081
## 3462 0.40243902 0.59405941 0.5031197 0.37373756 0.330564614
## 3463 0.50000000 0.55445545 0.4642655 0.54438331 0.447385123
## 3464 0.56097561 0.32673267 0.4790130 0.60058366 0.530488660
## 3465 0.57317073 0.54455446 0.4929098 0.45504607 0.516781621
## 3466 0.53658537 0.28217822 0.4906410 0.42186688 0.558416057
## 3467 0.47560976 0.31188119 0.4912082 0.45985660 0.440796928
## 3468 0.47560976 0.34405941 0.4844016 0.47439515 0.713528519
## 3469 0.62195122 0.37871287 0.4940442 0.55962437 0.421204545
## 3470 0.50000000 0.39603960 0.4801475 0.45422030 0.176668769
## 3471 0.50000000 0.53465347 0.4690868 0.47138749 0.416090176
## 3472 0.65853659 0.49009901 0.4682360 0.51863431 0.228738617
## 3473 0.56097561 0.40099010 0.4617130 0.45574197 0.393473534
## 3474 0.65853659 0.41584158 0.4892229 0.39782762 0.661129922
## 3475 0.52439024 0.50495050 0.4934770 0.52243159 0.367913130
## 3476 0.46341463 0.55445545 0.4829836 0.53500210 0.403982324
## 3477 0.56097561 0.48514851 0.4906410 0.43354581 0.502955882
## 3478 0.47560976 0.50247525 0.5544526 0.67538743 0.705553360
## 3479 0.56097561 0.37871287 0.4622802 0.66113269 0.461594173
## 3480 0.43902439 0.42326733 0.4804311 0.34716804 0.463087183
## 3481 0.53658537 0.40841584 0.5102099 0.43727086 0.479265844
## 3482 0.53658537 0.37623762 0.4702212 0.69167630 0.507117388
## 3483 0.41463415 0.29950495 0.4835508 0.40573569 0.751683892
## 3484 0.62195122 0.65346535 0.4906410 0.53964071 0.586588115
## 3485 0.36585366 0.68316832 0.4410096 0.38094301 0.439521722
## 3486 0.64634146 0.38366337 0.4690868 0.63088415 0.456414096
## 3487 0.65853659 0.53960396 0.4829836 0.59853077 0.605362203
## 3488 0.25609756 0.49009901 0.4929098 0.42254053 0.505324958
## 3489 0.47560976 0.45544554 0.4790130 0.44253407 0.389933221
## 3490 0.43902439 0.51980198 0.4730573 0.54571408 0.320418863
## 3491 0.71951220 0.37871287 0.4676687 0.59816813 0.567136804
## 3492 0.43902439 0.48267327 0.5036869 0.51540969 0.538722251
## 3493 0.65853659 0.35643564 0.4716393 0.53476533 0.440003268
## 3494 0.50000000 0.48019802 0.4818491 0.40320972 0.487394236
```

```
## 3495 0.53658537 0.35148515 0.4736245 0.61081484 0.544238912
## 3496 0.71951220 0.38366337 0.5099263 0.61649340 0.460872641
## 3497 0.53658537 0.50247525 0.4892229 0.39851787 0.244594928
## 3498 0.25609756 0.59158416 0.4832672 0.38028485 0.466996324
## 3499 0.34146341 0.36881188 0.4648327 0.53643558 0.405683558
## 3500 0.62195122 0.20792079 0.4120817 0.50581996 0.289295319
## 3501 0.50000000 0.61633663 0.4702212 0.51371198 0.472641378
## 3502 0.59756098 0.41089109 0.5343165 0.44618105 0.520323757
## 3503 0.40243902 0.58168317 0.4937606 0.43231089 0.450702516
## 3504 0.56097561 0.52722772 0.4900737 0.55536073 0.483766421
## 3505 0.62195122 0.38118812 0.4869541 0.44614318 0.449699785
## 3506 0.59756098 0.53960396 0.4965967 0.40237678 0.370710260
## 3507 0.68292683 0.31188119 0.4821327 0.58509583 0.455793163
## 3508 0.47560976 0.49752475 0.4917754 0.39485002 0.506158401
## 3509 0.71951220 0.36138614 0.4878049 0.52212060 0.501365150
## 3510 0.46341463 0.63613861 0.4982984 0.56586629 0.368098238
## 3511 0.34146341 0.50742574 0.4798639 0.44540647 0.256598410
## 3512 0.62195122 0.56683168 0.4761770 0.57897982 0.642424591
## 3513 0.52439024 0.50000000 0.4954623 0.69093804 0.494556623
## 3514 0.37804878 0.48267327 0.4971639 0.47567170 0.492418111
## 3515 0.56097561 0.37871287 0.4784458 0.56474787 0.435820580
## 3516 0.28048780 0.36138614 0.4923426 0.37464404 0.577842877
## 3517 0.52439024 0.50247525 0.4937606 0.36072024 0.462083158
## 3518 0.46341463 0.44801980 0.4849688 0.19915661 0.391243218
## 3519 0.41463415 0.42326733 0.4710720 0.44385288 0.653319342
## 3520 0.50000000 0.50742574 0.5051049 0.52708714 0.307760406
## 3521 0.46341463 0.42574257 0.4866704 0.52531199 0.488606078
## 3522 0.53658537 0.41831683 0.4707884 0.60286006 0.350343504
## 3523 0.62195122 0.50742574 0.4818491 0.75164740 0.554160145
## 3524 0.50000000 0.35891089 0.4293817 0.61828663 0.227825154
## 3525 0.37804878 0.40346535 0.4801475 0.64365322 0.545290650
## 3526 0.46341463 0.69059406 0.4795803 0.49975607 0.601606727
## 3527 0.47560976 0.41336634 0.4872377 0.67672791 0.452909456
## 3528 0.53658537 0.30940594 0.4773114 0.58918913 0.517027836
## 3529 0.62195122 0.62623762 0.4801475 0.51095681 0.422066589
## 3530 0.46341463 0.46782178 0.4710720 0.64726847 0.487632152
## 3531 0.71951220 0.32425743 0.4722065 0.62540715 0.521981302
## 3532 0.62195122 0.48514851 0.4878049 0.43832495 0.437691727
## 3533 0.65853659 0.32673267 0.4781622 0.56020414 0.350533809
## 3534 0.53658537 0.49752475 0.4858196 0.57704236 0.350914419
## 3535 0.50000000 0.47524752 0.4897901 0.53942529 0.528721559
## 3536 0.40243902 0.44554455 0.4671015 0.44939120 0.505320965
## 3537 0.43902439 0.60643564 0.5320476 0.41397055 0.517589149
## 3538 0.52439024 0.59158416 0.5031197 0.51943842 0.692042452
## 3539 0.64634146 0.61138614 0.4903573 0.55553285 0.387883811
## 3540 0.58536585 0.54455446 0.4844016 0.49412904 0.234862355
## 3541 0.47560976 0.26980198 0.5002836 0.46233217 0.338705249
## 3542 0.56097561 0.54702970 0.4923426 0.50428792 0.351847741
## 3543 0.53658537 0.37376238 0.4824163 0.73117336 0.369035745
## 3544 0.59756098 0.40594059 0.4812819 0.60597890 0.503803207
## 3545 0.50000000 0.46782178 0.4676687 0.61973344 0.394563463
## 3546 0.65853659 0.45297030 0.4750425 0.69141775 0.569107407
## 3547 0.53658537 0.58168317 0.4878049 0.69429400 0.476754926
## 3548 0.56097561 0.52475248 0.4897901 0.55279837 0.491415089
## 3549 0.41463415 0.51732673 0.4792967 0.47954585 0.434910941
## 3550 0.62195122 0.40594059 0.5158820 0.51026166 0.544155609
## 3551 0.56097561 0.42079208 0.4688032 0.42254773 0.482292027
## 3552 0.46341463 0.44554455 0.4764606 0.51257474 0.393266609
```

```
## 3553 0.43902439 0.41831683 0.4622802 0.46951290 0.602715995
## 3554 0.52439024 0.36386139 0.4804311 0.50643771 0.546622533
## 3555 0.46341463 0.49504950 0.4821327 0.38129623 0.444207484
## 3556 0.53658537 0.45792079 0.4784458 0.64305069 0.610285478
## 3557 0.41463415 0.43069307 0.4844016 0.57200825 0.527470719
## 3558 0.50000000 0.49009901 0.5141804 0.57137155 0.572529104
## 3559 0.62195122 0.53217822 0.4764606 0.55122219 0.447083545
## 3560 0.62195122 0.41831683 0.4954623 0.48410509 0.485823628
## 3561 0.52439024 0.55940594 0.4809983 0.54142376 0.372862816
## 3562 0.40243902 0.52722772 0.4909246 0.36367109 0.460385670
## 3563 0.58536585 0.67574257 0.4773114 0.64561915 0.304581498
## 3564 0.43902439 0.51732673 0.4872377 0.48344012 0.479554451
## 3565 0.43902439 0.52722772 0.4960295 0.59553543 0.483798030
## 3566 0.56097561 0.50000000 0.4903573 0.60999690 0.440110216
## 3567 0.43902439 0.40841584 0.4861032 0.37285805 0.627376972
## 3568 0.31707317 0.36881188 0.4741917 0.40379777 0.569344641
## 3569 0.50000000 0.46534653 0.4727737 0.55948144 0.513799823
## 3570 0.41463415 0.43069307 0.4753261 0.59390014 0.469758977
## 3571 0.35365854 0.53465347 0.4824163 0.45929339 0.530761191
## 3572 0.47560976 0.43811881 0.4744753 0.67116769 0.497879348
## 3573 0.50000000 0.35643564 0.4798639 0.50095240 0.224142674
## 3574 0.50000000 0.51485149 0.5011344 0.32465651 0.614154659
## 3575 0.28048780 0.46782178 0.4804311 0.35479559 0.477027075
## 3576 0.53658537 0.37623762 0.4863868 0.58255963 0.581875073
## 3577 0.31707317 0.46287129 0.4597277 0.29697393 0.266891486
## 3578 0.43902439 0.63118812 0.4818491 0.36434370 0.389185596
## 3579 0.12195122 0.54207921 0.4795803 0.15399525 0.434863166
## 3580 0.58536585 0.41831683 0.4977311 0.72291691 0.739012029
## 3581 0.43902439 0.43564356 0.4889393 0.56238492 0.451609727
## 3582 0.47560976 0.59405941 0.4946115 0.44523126 0.427448165
## 3583 0.81707317 0.37871287 0.4730573 0.85189115 0.559127105
## 3584 0.78048780 0.46534653 0.4878049 0.76349820 0.477659208
## 3585 0.28048780 0.55693069 0.4841180 0.38042597 0.564242719
## 3586 0.52439024 0.50000000 0.4883721 0.41558590 0.445415251
## 3587 0.43902439 0.59158416 0.4883721 0.58296689 0.456167111
## 3588 0.47560976 0.51485149 0.4815655 0.64054608 0.488011415
## 3589 0.53658537 0.52475248 0.4781622 0.67547173 0.454843865
## 3590 0.56097561 0.34653465 0.4841180 0.49774462 0.380367228
## 3591 0.52439024 0.60148515 0.4826999 0.49304087 0.343514768
## 3592 0.47560976 0.44801980 0.4795803 0.57554256 0.504404041
## 3593 0.50000000 0.53217822 0.4767442 0.64613405 0.401553326
## 3594 0.28048780 0.46534653 0.4815655 0.37862779 0.466467083
## 3595 0.50000000 0.58910891 0.4807147 0.55976746 0.371359042
## 3596 0.62195122 0.39356436 0.4795803 0.35236708 0.406828771
## 3597 0.47560976 0.32920792 0.4980147 0.43034854 0.384442698
## 3598 0.52439024 0.63861386 0.4622802 0.61199850 0.352865114
## 3599 0.36585366 0.56930693 0.4844016 0.51403793 0.400434704
## 3600 0.40243902 0.51237624 0.4897901 0.45096361 0.681237971
## 3601 0.30487805 0.49752475 0.4869541 0.47589435 0.476881752
## 3602 0.57317073 0.50990099 0.4863868 0.48582074 0.454449934
## 3603 0.62195122 0.34900990 0.4838344 0.54800241 0.296384019
## 3604 0.62195122 0.35148515 0.4861032 0.61999232 0.477060287
## 3605 0.52439024 0.43811881 0.4790130 0.60769293 0.423696148
## 3606 0.53658537 0.45049505 0.4741917 0.66562357 0.295614388
## 3607 0.52439024 0.35148515 0.4818491 0.38533382 0.536364497
## 3608 0.36585366 0.69059406 0.4923426 0.31284915 0.584860289
## 3609 0.52439024 0.48762376 0.4619966 0.38699831 0.311984569
## 3610 0.52439024 0.46039604 0.4549064 0.51114117 0.339189775
```

```
## 3611 0.58536585 0.48267327 0.4605786 0.61342343 0.522825596
## 3612 0.71951220 0.40841584 0.4764606 0.86961783 0.563423266
## 3613 0.50000000 0.29702970 0.4951787 0.46775958 0.586800152
## 3614 0.47560976 0.39603960 0.4994328 0.56851556 0.460862234
## 3615 0.42682927 0.64851485 0.4858196 0.60026468 0.565304405
## 3616 0.59756098 0.19801980 0.4824163 0.48912137 0.375470479
## 3617 0.53658537 0.24752475 0.5017016 0.54997537 0.436575610
## 3618 0.47560976 0.34653465 0.4773114 0.47098543 0.434898110
## 3619 0.43902439 0.34405941 0.4685196 0.64847728 0.489909067
## 3620 0.52439024 0.39603960 0.4937606 0.54313876 0.501150944
## 3621 0.34146341 0.53217822 0.4682360 0.55098051 0.255760615
## 3622 0.53658537 0.56683168 0.4994328 0.71890474 0.542796654
## 3623 0.56097561 0.57920792 0.4906410 0.63354178 0.446290400
## 3624 0.50000000 0.53217822 0.4713556 0.51721662 0.532947145
## 3625 0.56097561 0.59900990 0.5136132 0.40962631 0.480728918
## 3626 0.53658537 0.37623762 0.4829836 0.41771854 0.349164733
## 3627 0.58536585 0.42079208 0.4739081 0.51751536 0.422784722
## 3628 0.56097561 0.31435644 0.4764606 0.49522233 0.538302732
## 3629 0.43902439 0.22277228 0.4815655 0.61661913 0.482543681
## 3630 0.56097561 0.39356436 0.4974475 0.47218864 0.371993073
## 3631 0.53658537 0.33168317 0.4960295 0.45351616 0.475608333
## 3632 0.53658537 0.56435644 0.4844016 0.41876445 0.427955579
## 3633 0.37804878 0.43069307 0.4883721 0.51308181 0.526466736
## 3634 0.41463415 0.53465347 0.4968803 0.57345088 0.570515288
## 3635 0.43902439 0.46534653 0.5224050 0.52968989 0.530895361
## 3636 0.68292683 0.63861386 0.4835508 0.82311900 0.497801233
## 3637 0.41463415 0.62128713 0.4778786 0.36661353 0.381110863
## 3638 0.50000000 0.45297030 0.4801475 0.48894996 0.336070630
## 3639 0.31707317 0.52722772 0.5000000 0.31313089 0.375193329
## 3640 0.47560976 0.47524752 0.5513330 0.62613201 0.581564063
## 3641 0.53658537 0.41584158 0.4753261 0.51270306 0.629795692
## 3642 0.65853659 0.44059406 0.4869541 0.58600004 0.561709149
## 3643 0.46341463 0.45297030 0.4716393 0.53468278 0.333029464
## 3644 0.50000000 0.31435644 0.4861032 0.66075216 0.628497210
## 3645 0.56097561 0.50990099 0.4951787 0.44703880 0.481783246
## 3646 0.46341463 0.59405941 0.4778786 0.57921005 0.560527526
## 3647 0.34146341 0.59405941 0.4452638 0.37407481 0.621116248
## 3648 0.37804878 0.54207921 0.4841180 0.52417855 0.321652979
## 3649 0.50000000 0.42326733 0.4798639 0.49400547 0.192031755
## 3650 0.40243902 0.40346535 0.4798639 0.43144844 0.337558528
## 3651 0.56097561 0.50000000 0.5104935 0.44150601 0.501494460
## 3652 0.56097561 0.45792079 0.4614294 0.63462183 0.462956480
## 3653 0.58536585 0.46534653 0.4744753 0.63193020 0.322890998
## 3654 0.24390244 0.56930693 0.4818491 0.36284011 0.366900038
## 3655 0.47560976 0.58663366 0.5382870 0.50157426 0.498402325
## 3656 0.47560976 0.23514851 0.4685196 0.73133480 0.541259774
## 3657 0.19512195 0.38613861 0.4792967 0.12897602 0.500338621
## 3658 0.68292683 0.33910891 0.4035735 0.52316723 0.561401291
## 3659 0.56097561 0.49504950 0.4648327 0.53888802 0.432500009
## 3660 0.43902439 0.48267327 0.5144640 0.40674960 0.544595640
## 3661 0.31707317 0.50495050 0.5048213 0.23270782 0.531382102
## 3662 0.75609756 0.32673267 0.4705048 0.79689674 0.410978198
## 3663 0.47560976 0.48514851 0.4929098 0.49217331 0.640195221
## 3664 0.47560976 0.33910891 0.5173001 0.50297693 0.570001025
## 3665 0.52439024 0.47277228 0.4537720 0.59632970 0.372602737
## 3666 0.47560976 0.56683168 0.4946115 0.51337650 0.589228024
## 3667 0.34146341 0.59900990 0.4792967 0.35172584 0.467722787
## 3668 0.50000000 0.45544554 0.4835508 0.50640705 0.572915765
```

```
## 3669 0.30487805 0.62871287 0.4790130 0.30730746 0.459462498
## 3670 0.50000000 0.39851485 0.5022689 0.30741642 0.488437189
## 3671 0.56097561 0.40346535 0.4951787 0.41833671 0.557045845
## 3672 0.40243902 0.47277228 0.4812819 0.37328196 0.267185548
## 3673 0.56097561 0.43316832 0.4880885 0.44078112 0.573176224
## 3674 0.59756098 0.52970297 0.4878049 0.60201948 0.599072122
## 3675 0.41463415 0.40346535 0.4790130 0.58385893 0.264852648
## 3676 0.34146341 0.48514851 0.4835508 0.53683727 0.654690041
## 3677 0.47560976 0.40594059 0.4858196 0.53185008 0.408021082
## 3678 0.47560976 0.32673267 0.4739081 0.50234806 0.541163316
## 3679 0.47560976 0.42821782 0.5048213 0.56825317 0.507789831
## 3680 0.50000000 0.43316832 0.4821327 0.59167564 0.465575387
## 3681 0.56097561 0.41336634 0.4824163 0.45071832 0.342018767
## 3682 0.59756098 0.42574257 0.4838344 0.52386232 0.708583628
## 3683 0.35365854 0.56683168 0.4801475 0.37482313 0.458171694
## 3684 0.74390244 0.51980198 0.4696540 0.68482592 0.450770743
## 3685 0.34146341 0.58910891 0.5309132 0.44781674 0.531663666
## 3686 0.37804878 0.55940594 0.4940442 0.36119555 0.457091169
## 3687 0.53658537 0.36386139 0.4903573 0.17004420 0.637246493
## 3688 0.35365854 0.59900990 0.4775950 0.48976055 0.374243572
## 3689 0.59756098 0.45297030 0.4917754 0.63348474 0.389842036
## 3690 0.65853659 0.23762376 0.4980147 0.64891261 0.733419458
## 3691 0.56097561 0.24504950 0.4705048 0.50576337 0.558247159
## 3692 0.50000000 0.50990099 0.4761770 0.43436624 0.568073058
## 3693 0.31707317 0.35396040 0.4824163 0.37632509 0.534074319
## 3694 0.24390244 0.54950495 0.4656835 0.40401995 0.299857508
## 3695 0.59756098 0.30940594 0.4719229 0.59875882 0.191580703
## 3696 0.53658537 0.52475248 0.4784458 0.49382471 0.317210750
## 3697 0.56097561 0.40841584 0.5005672 0.45852782 0.444325241
## 3698 0.43902439 0.48762376 0.4951787 0.45365427 0.319644275
## 3699 0.46341463 0.46039604 0.4937606 0.36990691 0.481536728
## 3700 0.43902439 0.34405941 0.4912082 0.49162077 0.336259140
## 3701 0.68292683 0.39851485 0.4815655 0.66006850 0.451083419
## 3702 0.74390244 0.29702970 0.4767442 0.64290518 0.503187278
## 3703 0.59756098 0.44554455 0.4866704 0.42393565 0.755693126
## 3704 0.57317073 0.22772277 0.5031197 0.66677879 0.648538689
## 3705 0.58536585 0.49009901 0.4773114 0.57715140 0.259181243
## 3706 0.56097561 0.25495050 0.4971639 0.50002120 0.606575103
## 3707 0.50000000 0.40099010 0.4982984 0.48633416 0.407071924
## 3708 0.43902439 0.52227723 0.4736245 0.60576297 0.552192407
## 3709 0.62195122 0.42821782 0.5065230 0.49422584 0.538054771
## 3710 0.31707317 0.54950495 0.4943279 0.47662527 0.531054881
## 3711 0.50000000 0.47772277 0.4971639 0.46644063 0.438417580
## 3712 0.58536585 0.50000000 0.4895065 0.61139430 0.549333319
## 3713 0.84146341 0.26237624 0.4920590 0.67870467 0.614466332
## 3714 0.46341463 0.47277228 0.4713556 0.48430264 0.539343981
## 3715 0.43902439 0.51485149 0.4943279 0.46067874 0.498098024
## 3716 0.65853659 0.42821782 0.4906410 0.56055043 0.684753075
## 3717 0.52439024 0.55445545 0.4869541 0.47546403 0.536515979
## 3718 0.37804878 0.53465347 0.4926262 0.37377311 0.467178789
## 3719 0.46341463 0.59405941 0.4880885 0.42787496 0.516964214
## 3720 0.58536585 0.43811881 0.4673851 0.55003025 0.436937089
## 3721 0.50000000 0.47772277 0.4931934 0.42646476 0.345098107
## 3722 0.56097561 0.33415842 0.4546228 0.52606340 0.379688533
## 3723 0.56097561 0.38861386 0.4994328 0.67342844 0.601631724
## 3724 0.65853659 0.23762376 0.4719229 0.86980288 0.418107493
## 3725 0.63414634 0.43316832 0.4869541 0.49134947 0.580178628
## 3726 0.52439024 0.35396040 0.4957459 0.37023276 0.584064624
```

```
## 3727 0.43902439 0.43069307 0.4756098 0.50420965 0.345907934
## 3728 0.52439024 0.34158416 0.5167328 0.50653823 0.529265810
## 3729 0.56097561 0.52722772 0.4914918 0.47224442 0.451496499
## 3730 0.29268293 0.50247525 0.5045377 0.53012773 0.629204721
## 3731 0.50000000 0.57425743 0.4934770 0.55322371 0.369815891
## 3732 0.59756098 0.46287129 0.4792967 0.40960606 0.649558747
## 3733 0.46341463 0.51732673 0.4668179 0.55308488 0.418102096
## 3734 0.41463415 0.34405941 0.5059558 0.45497275 0.629847157
## 3735 0.46341463 0.54950495 0.4747589 0.56845775 0.392943478
## 3736 0.50000000 0.67326733 0.4775950 0.48039215 0.420571355
## 3737 0.58536585 0.41089109 0.5051049 0.57755655 0.482139818
## 3738 0.62195122 0.31930693 0.4781622 0.66166126 0.578751042
## 3739 0.56097561 0.58168317 0.4778786 0.50882990 0.679122012
## 3740 0.65853659 0.40099010 0.4744753 0.61826173 0.451522322
## 3741 0.51219512 0.49504950 0.5385706 0.39775238 0.435124376
## 3742 0.56097561 0.47524752 0.4679524 0.53673575 0.382553843
## 3743 0.56097561 0.45544554 0.4883721 0.51321028 0.470472795
## 3744 0.58536585 0.70544554 0.5079410 0.49860960 0.493503413
## 3745 0.56097561 0.47277228 0.4651163 0.65365800 0.580051509
## 3746 0.50000000 0.43316832 0.5005672 0.38830496 0.400181375
## 3747 0.43902439 0.50495050 0.4719229 0.32440167 0.376034677
## 3748 0.58536585 0.55445545 0.4920590 0.50439686 0.293612124
## 3749 0.59756098 0.28465347 0.4960295 0.52302434 0.488714201
## 3750 0.41463415 0.47772277 0.4892229 0.60574298 0.504847809
## 3751 0.50000000 0.54702970 0.4985820 0.52060837 0.289994434
## 3752 0.47560976 0.39356436 0.4651163 0.50305278 0.583937404
## 3753 0.52439024 0.47029703 0.5017016 0.57322435 0.389385304
## 3754 0.68292683 0.46287129 0.4625638 0.62887615 0.442728892
## 3755 0.28048780 0.34900990 0.4875213 0.42090585 0.646615802
## 3756 0.56097561 0.24752475 0.4892229 0.51902242 0.281463756
## 3757 0.80487805 0.52227723 0.4920590 0.82971804 0.471828198
## 3758 0.40243902 0.40841584 0.5022689 0.39561893 0.517699890
## 3759 0.41463415 0.43564356 0.4512195 0.45516732 0.320538964
## 3760 0.40243902 0.42574257 0.5365854 0.43973225 0.617670540
## 3761 0.34146341 0.57178218 0.4676687 0.44810747 0.321743896
## 3762 0.56097561 0.36881188 0.4115145 0.49641708 0.487767493
## 3763 0.50000000 0.57425743 0.4863868 0.55826326 0.480000406
## 3764 0.58536585 0.54702970 0.4988656 0.42012786 0.753245907
## 3765 0.56097561 0.47772277 0.4744753 0.50610477 0.358008936
## 3766 0.56097561 0.52722772 0.4784458 0.56339245 0.462945096
## 3767 0.50000000 0.60891089 0.4679524 0.65305083 0.499020140
## 3768 0.59756098 0.68069307 0.4600113 0.62243348 0.391090900
## 3769 0.50000000 0.45544554 0.5008508 0.49482513 0.327757906
## 3770 0.62195122 0.62376238 0.4750425 0.67318391 0.597798809
## 3771 0.36585366 0.63613861 0.4960295 0.32589722 0.508833969
## 3772 0.59756098 0.43069307 0.4384572 0.66617837 0.323395877
## 3773 0.50000000 0.44059406 0.5215542 0.46337028 0.560253389
## 3774 0.37804878 0.30940594 0.4897901 0.49617786 0.524605422
## 3775 0.75609756 0.33910891 0.5031197 0.50665458 0.721512112
## 3776 0.47560976 0.55445545 0.5127623 0.40403258 0.490927603
## 3777 0.35365854 0.39603960 0.4818491 0.34478994 0.424114029
## 3778 0.37804878 0.42079208 0.5048213 0.37896839 0.401839096
## 3779 0.56097561 0.50000000 0.4790130 0.54284291 0.551533936
## 3780 0.47560976 0.39356436 0.4781622 0.47591392 0.367340284
## 3781 0.37804878 0.41584158 0.4659671 0.40970358 0.511703476
## 3782 0.64634146 0.44059406 0.4628474 0.53963134 0.499278855
## 3783 0.65853659 0.36138614 0.4563244 0.73155834 0.494698172
## 3784 0.53658537 0.51732673 0.4673851 0.66402133 0.394902949
```

428

```
## 3785 0.56097561 0.35643564 0.4985820 0.46092184 0.549016415
## 3786 0.50000000 0.40841584 0.4634146 0.49930326 0.614395811
## 3787 0.37804878 0.50495050 0.5113443 0.37789782 0.704539146
## 3788 0.50000000 0.40594059 0.4611458 0.67310311 0.418678462
## 3789 0.43902439 0.34405941 0.4690868 0.37228253 0.375956699
## 3790 0.19512195 0.37128713 0.4863868 0.11662583 0.498793805
## 3791 0.84146341 0.35396040 0.4719229 0.65805171 0.449429519
## 3792 0.62195122 0.45792079 0.4758934 0.61211463 0.488684355
## 3793 0.50000000 0.47524752 0.4790130 0.47515206 0.433035343
## 3794 0.43902439 0.61138614 0.4659671 0.56429193 0.333120463
## 3795 0.18292683 0.54950495 0.5051049 0.15945855 0.553852511
## 3796 0.68292683 0.51980198 0.4690868 0.78761353 0.500290461
## 3797 0.47560976 0.42326733 0.4634146 0.39659913 0.550620125
## 3798 0.46341463 0.26732673 0.4319342 0.37603206 0.226767253
## 3799 0.47560976 0.33663366 0.4625638 0.34317411 0.354499784
## 3800 0.30487805 0.71039604 0.5294952 0.29604330 0.551876485
## 3801 0.56097561 0.41831683 0.4878049 0.48060770 0.495567912
## 3802 0.68292683 0.53217822 0.4920590 0.46239097 0.471494375
## 3803 0.50000000 0.29455446 0.4733409 0.49359605 0.386825802
## 3804 0.37804878 0.43564356 0.5070902 0.38377714 0.301568929
## 3805 0.41463415 0.26980198 0.4815655 0.40191640 0.421458049
## 3806 0.37804878 0.47029703 0.5138968 0.27683422 0.405015356
## 3807 0.58536585 0.46534653 0.4937606 0.41403925 0.500645155
## 3808 0.71951220 0.34158416 0.4659671 0.61623452 0.371460925
## 3809 0.65853659 0.37128713 0.4923426 0.43915799 0.416947024
## 3810 0.78048780 0.52722772 0.5005672 0.78028969 0.571474769
## 3811 0.41463415 0.48514851 0.4781622 0.42411524 0.445651722
## 3812 0.50000000 0.47772277 0.4886557 0.46279414 0.491824094
## 3813 0.28048780 0.55693069 0.4858196 0.36538402 0.568718477
## 3814 0.50000000 0.43316832 0.5184345 0.59353264 0.592408684
## 3815 0.40243902 0.62128713 0.5363018 0.55436051 0.506997074
## 3816 0.62195122 0.36386139 0.4889393 0.56796002 0.500087703
## 3817 0.41463415 0.45297030 0.5102099 0.39365158 0.422236681
## 3818 0.37804878 0.35148515 0.4909246 0.28664072 0.522656779
## 3819 0.74390244 0.34653465 0.4767442 0.56120340 0.458990351
## 3820 0.40243902 0.74504950 0.4753261 0.54633709 0.381595778
## 3821 0.34146341 0.47029703 0.4861032 0.51527761 0.473079322
## 3822 0.46341463 0.35148515 0.4804311 0.29474055 0.269629226
## 3823 0.34146341 0.59405941 0.4863868 0.47186255 0.397605016
## 3824 0.64634146 0.53217822 0.4790130 0.64716047 0.399660146
## 3825 0.34146341 0.64356436 0.4829836 0.48633751 0.384972681
## 3826 0.63414634 0.48514851 0.4866704 0.61148553 0.544860648
## 3827 0.47560976 0.46782178 0.4844016 0.41045545 0.525068693
## 3828 0.50000000 0.58663366 0.4855360 0.61480922 0.463977184
## 3829 0.46341463 0.49257426 0.4855360 0.47934526 0.333937265
## 3830 0.50000000 0.33663366 0.4707884 0.43808264 0.627142108
## 3831 0.65853659 0.54207921 0.4659671 0.66027735 0.234723381
## 3832 0.47560976 0.31930693 0.4818491 0.32386330 0.329303785
## 3833 0.59756098 0.49752475 0.4588769 0.53582936 0.440695886
## 3834 0.53658537 0.47772277 0.4963131 0.81512946 0.577274821
## 3835 0.59756098 0.53960396 0.5062394 0.46997660 0.568110769
## 3836 0.52439024 0.39851485 0.4895065 0.54658758 0.493652186
## 3837 0.41463415 0.44059406 0.4673851 0.51970781 0.438291595
## 3838 0.56097561 0.54950495 0.4872377 0.53302672 0.676016554
## 3839 0.57317073 0.38366337 0.5099263 0.60812782 0.548472540
## 3840 0.37804878 0.55445545 0.4773114 0.44124855 0.512115368
## 3841 0.62195122 0.39851485 0.4801475 0.62980299 0.477608872
## 3842 0.50000000 0.48267327 0.4923426 0.55528626 0.652688665
```

```
## 3843 0.53658537 0.50247525 0.4705048 0.59618163 0.442436479
## 3844 0.52439024 0.40594059 0.4991492 0.54424060 0.486816474
## 3845 0.31707317 0.49009901 0.4812819 0.48709560 0.340866316
## 3846 0.46341463 0.47029703 0.4787294 0.54801172 0.578857091
## 3847 0.25609756 0.26980198 0.5036869 0.11871021 0.701170115
## 3848 0.37804878 0.72029703 0.4878049 0.47720023 0.591172043
## 3849 0.65853659 0.46534653 0.4954623 0.48758779 0.566939857
## 3850 0.40243902 0.46782178 0.5036869 0.28824004 0.278965892
## 3851 0.37804878 0.63613861 0.4744753 0.34060389 0.502154982
## 3852 0.50000000 0.27722772 0.4290981 0.41472417 0.428066686
## 3853 0.31707317 0.30445545 0.4648327 0.38369380 0.490446036
## 3854 0.41463415 0.52722772 0.4636982 0.53297418 0.543821971
## 3855 0.30487805 0.58168317 0.5235394 0.41441843 0.440419478
## 3856 0.50000000 0.48514851 0.5127623 0.56807132 0.557065717
## 3857 0.50000000 0.50990099 0.5014180 0.66465248 0.688383983
## 3858 0.58536585 0.34405941 0.4750425 0.57680723 0.418961095
## 3859 0.52439024 0.44801980 0.4696540 0.48519033 0.548500871
## 3860 0.53658537 0.62376238 0.4741917 0.38795686 0.326629712
## 3861 0.62195122 0.46534653 0.5036869 0.44420970 0.474690220
## 3862 0.50000000 0.47277228 0.4861032 0.55376769 0.523083112
## 3863 0.56097561 0.41584158 0.4653999 0.59003308 0.605646294
## 3864 0.50000000 0.50000000 0.4645491 0.66227345 0.376134901
## 3865 0.25609756 0.67326733 0.5127623 0.35410021 0.485571564
## 3866 0.58536585 0.40099010 0.4855360 0.47143151 0.453224662
## 3867 0.50000000 0.25247525 0.5402723 0.41091524 0.746572478
## 3868 0.37804878 0.66336634 0.5368690 0.55018467 0.573093761
## 3869 0.50000000 0.36386139 0.5085082 0.59025141 0.417996927
## 3870 0.62195122 0.43811881 0.4673851 0.62435459 0.419957780
## 3871 0.47560976 0.32673267 0.5102099 0.60855066 0.477874373
## 3872 0.90243902 0.61881188 0.4775950 0.91238391 0.412973727
## 3873 0.42682927 0.55940594 0.5053885 0.56034247 0.641167585
## 3874 0.37804878 0.54950495 0.4920590 0.53808710 0.571510719
## 3875 0.58536585 0.54455446 0.4897901 0.43153249 0.697802258
## 3876 0.58536585 0.40346535 0.4804311 0.48580972 0.469273924
## 3877 0.62195122 0.42079208 0.4804311 0.65161793 0.653372478
## 3878 0.43902439 0.42821782 0.4741917 0.60998935 0.380266165
## 3879 0.59756098 0.34158416 0.4747589 0.63425260 0.610338388
## 3880 0.47560976 0.46782178 0.4940442 0.48500749 0.463552583
## 3881 0.43902439 0.60148515 0.4293817 0.41415735 0.122040955
## 3882 0.53658537 0.25000000 0.5087918 0.61769312 0.513190905
## 3883 0.58536585 0.35643564 0.5028361 0.62965689 0.473397636
## 3884 0.28048780 0.51485149 0.4926262 0.46788466 0.491615464
## 3885 0.53658537 0.39603960 0.5002836 0.64163513 0.626961878
## 3886 0.37804878 0.44554455 0.4671015 0.52177985 0.431471984
## 3887 0.37804878 0.50742574 0.4849688 0.42170764 0.358045534
## 3888 0.58536585 0.55445545 0.4767442 0.45406757 0.424863477
## 3889 0.80487805 0.55198020 0.4872377 0.87355532 0.441004859
## 3890 0.53658537 0.49009901 0.4835508 0.48347897 0.330893091
## 3891 0.47560976 0.49504950 0.4926262 0.53299898 0.514612530
## 3892 0.50000000 0.45792079 0.4872377 0.48667210 0.460385670
## 3893 0.56097561 0.48267327 0.4753261 0.50938251 0.496182537
## 3894 0.62195122 0.51732673 0.5039705 0.53335293 0.488227064
## 3895 0.47560976 0.52722772 0.4705048 0.51322878 0.496988521
## 3896 0.52439024 0.33663366 0.5017016 0.58168313 0.459286264
## 3897 0.43902439 0.48019802 0.4625638 0.44812034 0.229165745
## 3898 0.43902439 0.29950495 0.4863868 0.53041839 0.559070014
## 3899 0.53658537 0.45049505 0.4716393 0.52310634 0.577232984
## 3900 0.52439024 0.52227723 0.4395916 0.53187118 0.454784884
```

```
## 3901 0.43902439 0.61881188 0.4554736 0.37677466 0.470693445
## 3902 0.31707317 0.74752475 0.4727737 0.37803556 0.310840370
## 3903 0.62195122 0.62871287 0.4963131 0.40266997 0.693817546
## 3904 0.46341463 0.46039604 0.6888826 0.36347801 0.481752379
## 3905 0.65853659 0.40346535 0.4895065 0.59465443 0.437633397
## 3906 0.47560976 0.54207921 0.5263755 0.57825395 0.540016187
## 3907 0.35365854 0.61138614 0.4838344 0.38533332 0.478662351
## 3908 0.68292683 0.59158416 0.4719229 0.62759336 0.353666815
## 3909 0.50000000 0.46287129 0.4849688 0.48616386 0.584981878
## 3910 0.31707317 0.53465347 0.4758934 0.39691718 0.509035027
## 3911 0.63414634 0.32920792 0.4968803 0.42554645 0.589009538
## 3912 0.43902439 0.64851485 0.4747589 0.41150486 0.300769055
## 3913 0.64634146 0.40099010 0.4653999 0.63595210 0.422116714
## 3914 0.71951220 0.58168317 0.4197391 0.86461834 0.522323240
## 3915 0.50000000 0.46534653 0.4985820 0.40355039 0.569561572
## 3916 0.50000000 0.53217822 0.4225752 0.48750076 0.541125717
## 3917 0.40243902 0.64851485 0.4946115 0.43424129 0.392380874
## 3918 0.62195122 0.19059406 0.4671015 0.50860956 0.448322586
## 3919 0.40243902 0.48762376 0.4801475 0.59625495 0.500693702
## 3920 0.56097561 0.41831683 0.4713556 0.56498704 0.313863564
## 3921 0.37804878 0.49504950 0.4784458 0.37888496 0.316055669
## 3922 0.56097561 0.62376238 0.4994328 0.53448451 0.630910280
## 3923 0.59756098 0.25990099 0.4747589 0.50642067 0.383214371
## 3924 0.30487805 0.65099010 0.4812819 0.37168310 0.405329590
## 3925 0.64634146 0.40594059 0.4838344 0.42682889 0.450199249
## 3926 0.68292683 0.56930693 0.5085082 0.42369825 0.412800137
## 3927 0.37804878 0.55940594 0.5070902 0.52255577 0.388946139
## 3928 0.50000000 0.23019802 0.4452638 0.52975184 0.667537140
## 3929 0.43902439 0.43069307 0.4756098 0.52306386 0.596834930
## 3930 0.56097561 0.42326733 0.4997164 0.48330840 0.464465299
## 3931 0.30487805 0.58168317 0.5014180 0.17588076 0.574937706
## 3932 0.50000000 0.46534653 0.4653999 0.52451515 0.320766915
## 3933 0.31707317 0.43069307 0.5002836 0.38415838 0.480682415
## 3934 0.46341463 0.57920792 0.5014180 0.54115076 0.499566918
## 3935 0.40243902 0.50247525 0.4750425 0.26462606 0.541900498
## 3936 0.50000000 0.47524752 0.4804311 0.54694124 0.522637422
## 3937 0.43902439 0.48762376 0.4818491 0.46839488 0.178947026
## 3938 0.41463415 0.33663366 0.4974475 0.50969280 0.484596353
## 3939 0.34146341 0.64108911 0.5093590 0.37936570 0.430109916
## 3940 0.41463415 0.48267327 0.2912649 0.40898679 0.402002439
## 3941 0.68292683 0.26237624 0.4730573 0.60098390 0.276839291
## 3942 0.50000000 0.55940594 0.5019853 0.56145988 0.622151428
## 3943 0.58536585 0.38861386 0.4804311 0.59285678 0.453978350
## 3944 0.46341463 0.54207921 0.5056721 0.45299234 0.560924472
## 3945 0.56097561 0.46039604 0.4262621 0.47235403 0.233262356
## 3946 0.50000000 0.53217822 0.4940442 0.38104272 0.502743675
## 3947 0.71951220 0.30693069 0.4583097 0.59452634 0.280760389
## 3948 0.41463415 0.35396040 0.4844016 0.60380731 0.467604904
## 3949 0.50000000 0.36386139 0.4957459 0.45135749 0.305983876
## 3950 0.35365854 0.47772277 0.4809983 0.55445324 0.488216931
## 3951 0.58536585 0.52227723 0.4744753 0.55689008 0.531279630
## 3952 0.50000000 0.45297030 0.4733409 0.52349453 0.427033715
## 3953 0.65853659 0.46287129 0.4747589 0.51217477 0.410936612
## 3954 0.50000000 0.36881188 0.4977311 0.34524429 0.478167105
## 3955 0.53658537 0.47524752 0.4809983 0.41980911 0.417286320
## 3956 0.50000000 0.46782178 0.4974475 0.38771105 0.544936674
## 3957 0.65853659 0.50247525 0.4676687 0.71037251 0.318181961
## 3958 0.43902439 0.52722772 0.4702212 0.62201785 0.429028099
```

```
## 3959 0.41463415 0.59158416 0.4946115 0.42950521 0.524909982
## 3960 0.46341463 0.58415842 0.4775950 0.50412203 0.642491623
## 3961 0.56097561 0.31188119 0.4764606 0.67566483 0.471691741
## 3962 0.43902439 0.53465347 0.4892229 0.50473402 0.491414133
## 3963 0.59756098 0.36138614 0.4770278 0.71674614 0.536270525
## 3964 0.50000000 0.56683168 0.5017016 0.29813113 0.526103753
## 3965 0.57317073 0.43069307 0.4744753 0.58987182 0.467799146
## 3966 0.58536585 0.46534653 0.4722065 0.63360855 0.321365156
## 3967 0.47560976 0.54455446 0.4844016 0.48700723 0.462870630
## 3968 0.65853659 0.28960396 0.4872377 0.51839032 0.554562328
## 3969 0.29268293 0.56930693 0.5053885 0.37734494 0.340217948
## 3970 0.34146341 0.51485149 0.5011344 0.46200192 0.503516630
## 3971 0.46341463 0.52475248 0.4710720 0.48650465 0.451294245
## 3972 0.43902439 0.51237624 0.4733409 0.42409178 0.452863519
## 3973 0.40243902 0.46039604 0.4254112 0.40256273 0.427845210
## 3974 0.29268293 0.47772277 0.4974475 0.40135434 0.546259917
## 3975 0.56097561 0.33663366 0.4883721 0.51581218 0.399566453
## 3976 0.47560976 0.25990099 0.4931934 0.55295746 0.529359972
## 3977 0.35365854 0.58415842 0.4693704 0.49431964 0.347266513
## 3978 0.62195122 0.27475248 0.4792967 0.44857610 0.402442089
## 3979 0.56097561 0.45049505 0.4659671 0.60676708 0.437647874
## 3980 0.50000000 0.33910891 0.4985820 0.53384885 0.530158093
## 3981 0.41463415 0.51237624 0.5042541 0.42619409 0.534718496
## 3982 0.36585366 0.65346535 0.4804311 0.55116279 0.321426462
## 3983 0.50000000 0.37128713 0.4914918 0.55280940 0.498483875
## 3984 0.65853659 0.51732673 0.4566081 0.68285648 0.470688918
## 3985 0.65853659 0.37128713 0.4963131 0.72017121 0.540094124
## 3986 0.47560976 0.53217822 0.4954623 0.44683867 0.533984657
## 3987 0.56097561 0.47524752 0.5768576 0.53714300 0.412131236
## 3988 0.74390244 0.37871287 0.4336358 0.63615488 0.517621588
## 3989 0.56097561 0.46782178 0.5107771 0.48352797 0.442533176
## 3990 0.37804878 0.52227723 0.4903573 0.48237225 0.452056681
## 3991 0.30487805 0.38613861 0.4679524 0.54283306 0.393065510
## 3992 0.28048780 0.35643564 0.4724901 0.40716495 0.574793589
## 3993 0.56097561 0.50000000 0.4449801 0.62104795 0.472365407
## 3994 0.53658537 0.31683168 0.3496880 0.45516516 0.367823078
## 3995 0.56097561 0.71287129 0.4937606 0.49933575 0.317272726
## 3996 0.57317073 0.41089109 0.4753261 0.64140648 0.335139600
## 3997 0.52439024 0.54702970 0.5073738 0.47769166 0.593542228
## 3998 0.50000000 0.41336634 0.4931934 0.52601156 0.391215578
## 3999 0.46341463 0.55940594 0.4875213 0.53058073 0.302373370
## 4000 0.31707317 0.47029703 0.4829836 0.41129090 0.526241366
## 4001 0.64634146 0.32920792 0.5028361 0.52287868 0.557398790
## 4002 0.25609756 0.64851485 0.4937606 0.35947061 0.542666688
## 4003 0.46341463 0.37376238 0.4256948 0.36907496 0.505135351
## 4004 0.56097561 0.57178218 0.5022689 0.36002854 0.381087073
## 4005 0.43902439 0.58415842 0.5039705 0.44002996 0.392712042
## 4006 0.46341463 0.51980198 0.4988656 0.35166468 0.489090864
## 4007 0.65853659 0.54455446 0.4705048 0.66621734 0.245767254
## 4008 0.21951220 0.36138614 0.4931934 0.13366638 0.579371750
## 4009 0.56097561 0.28217822 0.4273965 0.40220249 0.397106630
## 4010 0.50000000 0.37871287 0.4909246 0.56632070 0.531376523
## 4011 0.50000000 0.42079208 0.4764606 0.55158490 0.461671922
## 4012 0.62195122 0.67821782 0.4943279 0.49593602 0.498324444
## 4013 0.63414634 0.25495050 0.4994328 0.48553772 0.655213831
## 4014 0.43902439 0.52475248 0.5036869 0.52860840 0.589076664
## 4015 0.43902439 0.43316832 0.5031197 0.51658635 0.567219955
## 4016 0.34146341 0.56930693 0.4648327 0.45005364 0.311317141
```

```
## 4017 0.50000000 0.43316832 0.4600113 0.67663937 0.487204313
## 4018 0.31707317 0.74752475 0.4790130 0.36730653 0.325653103
## 4019 0.25609756 0.25990099 0.4636982 0.43627523 0.613155868
## 4020 0.34146341 0.52227723 0.4866704 0.42851524 0.490164261
## 4021 0.46341463 0.59158416 0.4946115 0.29138426 0.459553125
## 4022 0.53658537 0.45792079 0.4588769 0.51820943 0.604596704
## 4023 0.65853659 0.59900990 0.4946115 0.63027335 0.450761280
## 4024 0.43902439 0.42326733 0.4861032 0.56813040 0.233679228
## 4025 0.58536585 0.34158416 0.5246739 0.36378728 0.514316621
## 4026 0.41463415 0.44554455 0.5445264 0.53013871 0.548620568
## 4027 0.40243902 0.42574257 0.4120817 0.38749193 0.346795721
## 4028 0.62195122 0.38366337 0.4863868 0.44367685 0.446912713
## 4029 0.78048780 0.37128713 0.4781622 0.79431952 0.469946886
## 4030 0.53658537 0.44059406 0.4733409 0.50502390 0.399292773
## 4031 0.37804878 0.36633663 0.4736245 0.45225730 0.373848257
## 4032 0.34146341 0.68811881 0.4651163 0.31964716 0.417869382
## 4033 0.56097561 0.58415842 0.4878049 0.60509186 0.409734090
## 4034 0.59756098 0.26237624 0.4739081 0.50450939 0.379742810
## 4035 0.84146341 0.22277228 0.4807147 0.84270380 0.466396306
## 4036 0.52439024 0.52227723 0.5155984 0.41727604 0.543266557
## 4037 0.35365854 0.49009901 0.5504821 0.57748402 0.233040356
## 4038 0.43902439 0.46039604 0.4625638 0.50219472 0.359006753
## 4039 0.52439024 0.52970297 0.4824163 0.45730100 0.511648908
## 4040 0.50000000 0.47772277 0.4895065 0.45788251 0.495682952
## 4041 0.28048780 0.70297030 0.5558707 0.32223583 0.502162695
## 4042 0.59756098 0.38366337 0.4869541 0.63115689 0.476965126
## 4043 0.65853659 0.23019802 0.4844016 0.73131217 0.458560577
## 4044 0.87804878 0.52970297 0.4506523 0.84820951 0.376034677
## 4045 0.56097561 0.55198020 0.4651163 0.51825920 0.414856895
## 4046 0.34146341 0.41584158 0.4727737 0.48390870 0.343541034
## 4047 0.40243902 0.50000000 0.4787294 0.38383286 0.404665247
## 4048 0.59756098 0.63118812 0.4092456 0.60086825 0.501892184
## 4049 0.74390244 0.58168317 0.4719229 0.78516042 0.371314358
## 4050 0.56097561 0.10643564 0.4489507 0.44146140 0.310798128
## 4051 0.50000000 0.53712871 0.5045377 0.41319669 0.418662994
## 4052 0.50000000 0.51485149 0.4937606 0.45350201 0.476616757
## 4053 0.53658537 0.50495050 0.4764606 0.63335366 0.371447500
## 4054 0.53658537 0.63861386 0.5170164 0.42964886 0.514221472
## 4055 0.50000000 0.43811881 0.4948951 0.49305065 0.550371957
## 4056 0.58536585 0.46039604 0.5258083 0.52761606 0.485097541
## 4057 0.59756098 0.32178218 0.4880885 0.52301442 0.296045100
## 4058 0.53658537 0.39603960 0.4929098 0.43374349 0.672928092
## 4059 0.46341463 0.45049505 0.4529212 0.47617320 0.540800735
## 4060 0.47560976 0.42574257 0.4912082 0.58458207 0.530271679
## 4061 0.28048780 0.57178218 0.5272263 0.49956170 0.522841382
## 4062 0.53658537 0.37376238 0.4951787 0.53520034 0.530384709
## 4063 0.71951220 0.47029703 0.4824163 0.50394559 0.404327613
## 4064 0.50000000 0.59405941 0.4903573 0.39568108 0.381437975
## 4065 0.32926829 0.30940594 0.5226886 0.13949552 0.575384748
## 4066 0.62195122 0.39851485 0.4809983 0.66935292 0.556962819
## 4067 0.43902439 0.58663366 0.4821327 0.33992675 0.371278087
## 4068 0.34146341 0.39603960 0.4934770 0.40565100 0.372823891
## 4069 0.46341463 0.69306931 0.4951787 0.53454044 0.479564902
## 4070 0.68292683 0.42079208 0.4722065 0.61262043 0.435009191
## 4071 0.56097561 0.47277228 0.4736245 0.59494402 0.440589849
## 4072 0.56097561 0.41336634 0.4770278 0.63994337 0.627649631
## 4073 0.37804878 0.53712871 0.4897901 0.37217150 0.475185479
## 4074 0.52439024 0.36386139 0.5104935 0.35168243 0.686382599
```

```
## 4075 0.56097561 0.41336634 0.4957459 0.46758064 0.431984344
## 4076 0.47560976 0.56683168 0.4903573 0.46174644 0.495990762
## 4077 0.52439024 0.45792079 0.5045377 0.45152330 0.484744884
## 4078 0.50000000 0.53465347 0.4625638 0.59327543 0.370945205
## 4079 0.65853659 0.29207921 0.4784458 0.59952031 0.506190536
## 4080 0.56097561 0.49752475 0.4957459 0.52394824 0.639808937
## 4081 0.31707317 0.47277228 0.4716393 0.46086109 0.176149459
## 4082 0.37804878 0.41336634 0.5053885 0.15188098 0.703403139
## 4083 0.43902439 0.43316832 0.4645491 0.45503770 0.532998690
## 4084 0.37804878 0.41089109 0.4943279 0.43917520 0.558442007
## 4085 0.71951220 0.34900990 0.4143505 0.60174799 0.483155700
## 4086 0.41463415 0.48514851 0.5070902 0.34870957 0.551470901
## 4087 0.43902439 0.42821782 0.4773114 0.51950596 0.589630414
## 4088 0.50000000 0.36881188 0.4912082 0.34861948 0.477503487
## 4089 0.56097561 0.32673267 0.4339195 0.61336844 0.396134242
## 4090 0.47560976 0.42821782 0.5000000 0.51345956 0.398962622
## 4091 0.71951220 0.32178218 0.4767442 0.60878614 0.534114687
## 4092 0.63414634 0.51980198 0.4656835 0.52099437 0.440647958
## 4093 0.56097561 0.39851485 0.4934770 0.42695172 0.501212682
## 4094 0.30487805 0.52475248 0.4461146 0.45265544 0.400668254
## 4095 0.65853659 0.43811881 0.4475326 0.61911920 0.354796641
## 4096 0.37804878 0.39603960 0.4719229 0.36692512 0.400296706
## 4097 0.64634146 0.35643564 0.4880885 0.63065330 0.567456939
## 4098 0.40243902 0.47524752 0.4594441 0.59910748 0.365008882
## 4099 0.52439024 0.57178218 0.4869541 0.40585273 0.253710415
## 4100 0.43902439 0.49752475 0.4781622 0.45730116 0.403616108
## 4101 0.43902439 0.45297030 0.4926262 0.37494296 0.537766974
## 4102 0.34146341 0.55940594 0.4605786 0.49519364 0.267986784
## 4103 0.62195122 0.55940594 0.4767442 0.52737630 0.398186178
## 4104 0.53658537 0.46534653 0.4886557 0.60168051 0.680000711
## 4105 0.43902439 0.56435644 0.4727737 0.55061272 0.408459336
## 4106 0.34146341 0.28217822 0.4926262 0.22277031 0.458190006
## 4107 0.40243902 0.53960396 0.4875213 0.55773449 0.400033222
## 4108 0.43902439 0.58663366 0.4747589 0.48310928 0.569611474
## 4109 0.68292683 0.37623762 0.4869541 0.46174848 0.556016727
## 4110 0.42682927 0.42574257 0.4844016 0.50795244 0.490973259
## 4111 0.43902439 0.51485149 0.4753261 0.47172911 0.340171289
## 4112 0.45121951 0.39108911 0.4583097 0.62116273 0.506103554
## 4113 0.62195122 0.38366337 0.4866704 0.44257039 0.440904363
## 4114 0.43902439 0.42574257 0.4809983 0.57348316 0.264499853
## 4115 0.53658537 0.50495050 0.4730573 0.60647631 0.415972519
## 4116 0.47560976 0.44554455 0.4940442 0.40442166 0.593544828
## 4117 0.65853659 0.32673267 0.5062394 0.52286226 0.405806845
## 4118 0.46341463 0.44059406 0.4923426 0.34298190 0.481818784
## 4119 0.47560976 0.46782178 0.4844016 0.41377661 0.519404828
## 4120 0.43902439 0.43564356 0.4858196 0.53131219 0.290218463
## 4121 0.73170732 0.46039604 0.5130459 0.55656483 0.519750548
## 4122 0.34146341 0.64356436 0.4832672 0.48327474 0.399155201
## 4123 0.34146341 0.50990099 0.4792967 0.44666765 0.260435598
## 4124 0.60975610 0.44801980 0.4463982 0.65971958 0.348260436
## 4125 0.56097561 0.32425743 0.4855360 0.50565142 0.566183186
## 4126 0.56097561 0.29207921 0.4926262 0.47722857 0.671495231
## 4127 0.62195122 0.38366337 0.5022689 0.50929730 0.506038028
## 4128 0.62195122 0.43811881 0.4880885 0.65724469 0.483275146
## 4129 0.65853659 0.46287129 0.4634146 0.50083444 0.375663638
## 4130 0.21951220 0.46039604 0.5326149 0.26788100 0.338856978
## 4131 0.71951220 0.54702970 0.4824163 0.84824670 0.194706583
## 4132 0.31707317 0.53465347 0.4741917 0.39736344 0.507083036
```

```
## 4133 0.62195122 0.48762376 0.4878049 0.57074043 0.560189007
## 4134 0.62195122 0.25742574 0.4824163 0.65965900 0.561011125
## 4135 0.50000000 0.48762376 0.4529212 0.44387998 0.661623476
## 4136 0.40243902 0.62128713 0.4824163 0.43257169 0.366510987
## 4137 0.23170732 0.54455446 0.4861032 0.42305889 0.490518151
## 4138 0.43902439 0.62376238 0.4730573 0.56416063 0.409866349
## 4139 0.59756098 0.39108911 0.4838344 0.55850050 0.314659773
## 4140 0.65853659 0.54702970 0.4855360 0.49936001 0.604763971
## 4141 0.37804878 0.60891089 0.4432785 0.35020531 0.591331220
## 4142 0.40243902 0.40594059 0.4756098 0.48785510 0.394120923
## 4143 0.34146341 0.62128713 0.4690868 0.36665392 0.282636733
## 4144 0.50000000 0.62128713 0.4577425 0.38915438 0.410193421
## 4145 0.50000000 0.26485149 0.4948951 0.51765343 0.537762867
## 4146 0.40243902 0.45544554 0.4869541 0.51760935 0.662609042
## 4147 0.50000000 0.70297030 0.4957459 0.73637321 0.537889069
## 4148 0.43902439 0.50990099 0.4804311 0.49820632 0.380666109
## 4149 0.56097561 0.33663366 0.4761770 0.46543523 0.548590317
## 4150 0.46341463 0.38613861 0.4498015 0.37798609 0.302189606
## 4151 0.46341463 0.55445545 0.4829836 0.42262461 0.406579506
## 4152 0.46341463 0.46534653 0.5260919 0.49355130 0.515988242
## 4153 0.37804878 0.41089109 0.4929098 0.44089517 0.562017245
## 4154 0.53658537 0.42821782 0.4968803 0.44908796 0.513054268
## 4155 0.31707317 0.51980198 0.4645491 0.42446698 0.346907035
## 4156 0.37804878 0.41584158 0.4736245 0.46548818 0.631652209
## 4157 0.47560976 0.46039604 0.4792967 0.69643540 0.140585477
## 4158 0.53658537 0.47524752 0.4656835 0.53693806 0.457881046
## 4159 0.52439024 0.37128713 0.4602950 0.60640110 0.319171547
## 4160 0.37804878 0.31435644 0.4985820 0.45609621 0.598062743
## 4161 0.50000000 0.40594059 0.4319342 0.53061668 0.514294910
## 4162 0.59756098 0.47277228 0.4710720 0.57390125 0.424938051
## 4163 0.84146341 0.46534653 0.4639818 0.88700925 0.532605601
## 4164 0.56097561 0.52227723 0.5053885 0.68565622 0.614887859
## 4165 0.53658537 0.31930693 0.5017016 0.48441764 0.388689959
## 4166 0.47560976 0.52227723 0.4744753 0.61634860 0.449978775
## 4167 0.34146341 0.69306931 0.4577425 0.43478201 0.316221499
## 4168 0.47560976 0.29207921 0.4906410 0.62586741 0.439640614
## 4169 0.40243902 0.55940594 0.4679524 0.55180438 0.423891075
## 4170 0.45121951 0.54455446 0.5192853 0.39848900 0.631660781
## 4171 0.46341463 0.50990099 0.5051049 0.51173892 0.574611588
## 4172 0.56097561 0.30445545 0.4937606 0.52486465 0.496092569
## 4173 0.65853659 0.27227723 0.4821327 0.80512750 0.470268796
## 4174 0.56097561 0.74009901 0.4336358 0.55563039 0.224879521
## 4175 0.52439024 0.58910891 0.4951787 0.43954354 0.539179264
## 4176 0.50000000 0.42821782 0.4963131 0.56858943 0.370534675
## 4177 0.71951220 0.30198020 0.4710720 0.60536818 0.409564658
## 4178 0.34146341 0.44059406 0.4673851 0.27879176 0.393135572
## 4179 0.43902439 0.37623762 0.4943279 0.39417898 0.397568830
## 4180 0.47560976 0.58168317 0.4994328 0.38174436 0.451751926
## 4181 0.47560976 0.66831683 0.5258083 0.61955166 0.643485161
## 4182 0.46341463 0.49009901 0.4636982 0.44150019 0.279877175
## 4183 0.68292683 0.49257426 0.4934770 0.66472774 0.444093750
## 4184 0.40243902 0.51732673 0.4818491 0.44763478 0.469183531
## 4185 0.56097561 0.41089109 0.4982984 0.39464616 0.398166475
## 4186 0.59756098 0.39108911 0.4784458 0.38750969 0.520142777
## 4187 0.43902439 0.24752475 0.4795803 0.57332816 0.460401610
## 4188 0.50000000 0.47277228 0.4824163 0.47065872 0.473821429
## 4189 0.75609756 0.44059406 0.4821327 0.88016392 0.504938040
## 4190 0.50000000 0.31930693 0.5087918 0.41755979 0.535362416
```

435

```
## 4191 0.34146341 0.57920792 0.4722065 0.41951811 0.505812401
## 4192 0.37804878 0.58910891 0.4880885 0.41910231 0.678405081
## 4193 0.36585366 0.70049505 0.4784458 0.32119443 0.378626021
## 4194 0.46341463 0.62623762 0.4914918 0.32662193 0.516535021
## 4195 0.50000000 0.40841584 0.4671015 0.59231929 0.370870093
## 4196 0.53658537 0.55198020 0.4926262 0.46986683 0.458125598
## 4197 0.43902439 0.46534653 0.4784458 0.50250054 0.405242613
## 4198 0.59756098 0.43316832 0.4727737 0.58277073 0.478913802
## 4199 0.34146341 0.47029703 0.4866704 0.51121868 0.466884326
## 4200 0.50000000 0.64851485 0.4685196 0.46831669 0.335267145
## 4201 0.28048780 0.40346535 0.5079410 0.21187376 0.484731009
## 4202 0.37804878 0.51732673 0.4971639 0.44834830 0.432839607
## 4203 0.46341463 0.62623762 0.4719229 0.53187142 0.344501983
## 4204 0.59756098 0.38613861 0.4659671 0.70356666 0.402864396
## 4205 0.56097561 0.52722772 0.4798639 0.37150677 0.334581238
## 4206 0.56097561 0.42326733 0.4821327 0.41049359 0.537230509
## 4207 0.78048780 0.46039604 0.4846852 0.80277727 0.477133946
## 4208 0.34146341 0.64356436 0.4835508 0.48543636 0.404007856
## 4209 0.43902439 0.57673267 0.5056721 0.49187415 0.644229765
## 4210 0.71951220 0.51980198 0.4880885 0.81961891 0.438485691
## 4211 0.50000000 0.34900990 0.4849688 0.39154293 0.474980023
## 4212 0.24390244 0.55940594 0.4829836 0.27332320 0.374471526
## 4213 0.56097561 0.42079208 0.4951787 0.46409846 0.534503104
## 4214 0.43902439 0.48514851 0.4676687 0.36416761 0.557911236
## 4215 0.62195122 0.29455446 0.4872377 0.58168002 0.510534367
## 4216 0.43902439 0.52475248 0.5002836 0.49300394 0.298892648
## 4217 0.71951220 0.54702970 0.4861032 0.84486682 0.196095147
## 4218 0.56097561 0.61633663 0.4730573 0.48238053 0.240279883
## 4219 0.62195122 0.45792079 0.5173001 0.66392486 0.500949274
## 4220 0.50000000 0.63366337 0.4960295 0.51398845 0.474108942
## 4221 0.56097561 0.73514851 0.4844016 0.40124302 0.228488909
## 4222 0.68292683 0.46534653 0.4920590 0.83449066 0.497478537
## 4223 0.43902439 0.41584158 0.4883721 0.52399265 0.581954689
## 4224 0.52439024 0.42821782 0.4560408 0.51904259 0.684756943
## 4225 0.59756098 0.38613861 0.4665343 0.50385670 0.318132850
## 4226 0.62195122 0.47029703 0.4920590 0.64721401 0.555035941
## 4227 0.53658537 0.40841584 0.4659671 0.43582554 0.562996916
## 4228 0.41463415 0.50495050 0.5218378 0.45806042 0.441056701
## 4229 0.56097561 0.38366337 0.4934770 0.55452443 0.653223220
## 4230 0.50000000 0.57920792 0.4824163 0.46880815 0.326935991
## 4231 0.52439024 0.52227723 0.4801475 0.48434664 0.535126918
## 4232 0.45121951 0.42574257 0.4656835 0.57442723 0.385359622
## 4233 0.52439024 0.28712871 0.4591605 0.43934303 0.515952759
## 4234 0.53658537 0.39851485 0.4775950 0.59429540 0.376196148
## 4235 0.46341463 0.54950495 0.4812819 0.56807998 0.416818156
## 4236 0.62195122 0.40099010 0.4744753 0.62421226 0.560899221
## 4237 0.46341463 0.43316832 0.4931934 0.33988776 0.506212738
## 4238 0.41463415 0.43069307 0.4770278 0.44167999 0.447507008
## 4239 0.36585366 0.46039604 0.4795803 0.59536112 0.253662009
## 4240 0.57317073 0.33910891 0.4965967 0.47050074 0.511618825
## 4241 0.50000000 0.76732673 0.4773114 0.47717438 0.226571124
## 4242 0.59756098 0.42326733 0.4906410 0.56656757 0.337719773
## 4243 0.43902439 0.51485149 0.4968803 0.57587940 0.472157695
## 4244 0.56097561 0.40346535 0.4696540 0.62142135 0.337179211
## 4245 0.52439024 0.57425743 0.4642655 0.55206232 0.362905362
## 4246 0.50000000 0.62376238 0.4736245 0.71109944 0.545106106
## 4247 0.37804878 0.23019802 0.4730573 0.25139140 0.452346977
## 4248 0.71951220 0.29455446 0.4662507 0.60692786 0.569457122
```

```
## 4249 0.41463415 0.48019802 0.5226886 0.53795449 0.389353328
## 4250 0.71951220 0.20792079 0.4940442 0.57813110 0.495629943
## 4251 0.47560976 0.20049505 0.5051049 0.47083868 0.694983248
## 4252 0.43902439 0.48514851 0.4770278 0.42058309 0.352855530
## 4253 0.43902439 0.48267327 0.4960295 0.55174311 0.588647552
## 4254 0.43902439 0.45792079 0.5328985 0.49333368 0.278012970
## 4255 0.46341463 0.33663366 0.5238230 0.40993579 0.609224893
## 4256 0.34146341 0.56930693 0.5087918 0.44274793 0.454846129
## 4257 0.43902439 0.43316832 0.5062394 0.51376641 0.560517438
## 4258 0.46341463 0.39851485 0.5204197 0.53895884 0.538350192
## 4259 0.42682927 0.55693069 0.5093590 0.54508947 0.613248724
## 4260 0.47560976 0.17821782 0.5048213 0.60885269 0.616043508
## 4261 0.50000000 0.48514851 0.5272263 0.37916803 0.423534802
## 4262 0.50000000 0.52970297 0.4968803 0.41242775 0.579826764
## 4263 0.58536585 0.32178218 0.4940442 0.53820322 0.504301532
## 4264 0.21951220 0.78960396 0.5212706 0.24781172 0.473070189
## 4265 0.43902439 0.55445545 0.5042541 0.37119041 0.504681090
## 4266 0.53658537 0.35148515 0.4656835 0.61582754 0.533092595
## 4267 0.50000000 0.50495050 0.4710720 0.61787701 0.522737830
## 4268 0.41463415 0.43811881 0.4968803 0.61691811 0.598571320
## 4269 0.84146341 0.37128713 0.4767442 0.86188055 0.422392972
## 4270 0.41463415 0.41584158 0.4710720 0.38535443 0.527700060
## 4271 0.42682927 0.45049505 0.4685196 0.41028760 0.343292445
## 4272 0.46341463 0.45297030 0.4512195 0.40518739 0.385148927
## 4273 0.46341463 0.50247525 0.4696540 0.49565098 0.479640359
## 4274 0.43902439 0.43564356 0.4778786 0.40185227 0.500167291
## 4275 0.53658537 0.42821782 0.4963131 0.44935558 0.507858393
## 4276 0.50000000 0.46782178 0.4818491 0.53635516 0.430852122
## 4277 0.62195122 0.47524752 0.4931934 0.58854026 0.610640890
## 4278 0.46341463 0.49504950 0.4764606 0.39132825 0.444627515
## 4279 0.40243902 0.52722772 0.4872377 0.33935688 0.320255836
## 4280 0.56097561 0.51237624 0.4875213 0.43389324 0.672090050
## 4281 0.68292683 0.35891089 0.4909246 0.54920874 0.524953338
## 4282 0.40243902 0.32673267 0.5119115 0.45111039 0.604596516
## 4283 0.50000000 0.35891089 0.4878049 0.55309466 0.539878689
## 4284 0.50000000 0.55693069 0.4878049 0.52109184 0.481933805
## 4285 0.62195122 0.43069307 0.4770278 0.61960942 0.483847461
## 4286 0.69512195 0.42821782 0.4826999 0.83496095 0.525451876
## 4287 0.28048780 0.35891089 0.4662507 0.38426310 0.427064719
## 4288 0.50000000 0.65594059 0.4917754 0.51772896 0.613431498
## 4289 0.53658537 0.44554455 0.4807147 0.47621807 0.507543098
## 4290 0.78048780 0.30693069 0.4869541 0.63685608 0.473604586
## 4291 0.46341463 0.42821782 0.4815655 0.24634235 0.511472967
## 4292 0.56097561 0.55940594 0.4841180 0.52665464 0.456191956
## 4293 0.59756098 0.29702970 0.5113443 0.47730427 0.616606890
## 4294 0.58536585 0.40841584 0.4826999 0.57361691 0.471531864
## 4295 0.52439024 0.50495050 0.4889393 0.31685060 0.411117292
## 4296 0.58536585 0.55445545 0.4812819 0.52951647 0.319025609
## 4297 0.34146341 0.59405941 0.4863868 0.46962296 0.407243939
## 4298 0.46341463 0.41089109 0.4889393 0.32948892 0.486177274
## 4299 0.62195122 0.39603960 0.4838344 0.53393705 0.489602481
## 4300 0.46341463 0.43811881 0.4841180 0.31114335 0.373354735
## 4301 0.46341463 0.54455446 0.4909246 0.44437018 0.409891176
## 4302 0.47560976 0.46782178 0.4844016 0.41561690 0.511113985
## 4303 0.47560976 0.55693069 0.4617130 0.63380385 0.610404477
## 4304 0.35365854 0.64851485 0.4951787 0.43929376 0.557708601
## 4305 0.43902439 0.43811881 0.4917754 0.41245153 0.439559618
## 4306 0.56097561 0.47277228 0.4747589 0.47358486 0.429873035
```

```
## 4307 0.56097561 0.24504950 0.4923426 0.61534281 0.567040263
## 4308 0.62195122 0.40346535 0.4940442 0.53272013 0.447723360
## 4309 0.47560976 0.55940594 0.4792967 0.46944859 0.463228962
## 4310 0.37804878 0.36881188 0.4787294 0.47619569 0.546048952
## 4311 0.37804878 0.41831683 0.5039705 0.38429748 0.476618972
## 4312 0.47560976 0.39108911 0.4747589 0.44957143 0.394018499
## 4313 0.53658537 0.43564356 0.4937606 0.43113869 0.194379917
## 4314 0.53658537 0.56683168 0.4815655 0.45712014 0.494328257
## 4315 0.65853659 0.47277228 0.5014180 0.64787974 0.547693868
## 4316 0.19512195 0.38366337 0.5005672 0.19709266 0.506240828
## 4317 0.43902439 0.60396040 0.4736245 0.33133544 0.473792885
## 4318 0.24390244 0.62871287 0.4815655 0.46754207 0.234787325
## 4319 0.52439024 0.55198020 0.4727737 0.40513128 0.277609312
## 4320 0.68292683 0.37871287 0.4492343 0.66627536 0.296160190
## 4321 0.37804878 0.30693069 0.4702212 0.46336891 0.591775094
## 4322 0.53658537 0.20544554 0.4778786 0.59537021 0.678574829
## 4323 0.46341463 0.54702970 0.5017016 0.46197524 0.583991047
## 4324 0.43902439 0.36386139 0.5085082 0.54689755 0.565105963
## 4325 0.53658537 0.43316832 0.3961997 0.44046548 0.497854008
## 4326 0.56097561 0.50000000 0.4653999 0.49038300 0.391579314
## 4327 0.59756098 0.38366337 0.4693704 0.50724638 0.327470222
## 4328 0.40243902 0.35643564 0.4781622 0.47174017 0.620319389
## 4329 0.56097561 0.47277228 0.4622802 0.71835699 0.459963140
## 4330 0.40243902 0.51980198 0.4858196 0.46820329 0.307873775
## 4331 0.65853659 0.34405941 0.4929098 0.43517345 0.665229056
## 4332 0.41463415 0.59158416 0.5031197 0.29616379 0.486385403
## 4333 0.71951220 0.46782178 0.4549064 0.78441854 0.504479084
## 4334 0.50000000 0.44554455 0.4818491 0.39818059 0.373464741
## 4335 0.37804878 0.81435644 0.5053885 0.39692553 0.483604571
## 4336 0.53658537 0.47029703 0.4795803 0.47905327 0.563578544
## 4337 0.71951220 0.41336634 0.4900737 0.72124789 0.523594237
## 4338 0.43902439 0.43316832 0.4914918 0.28222515 0.365147304
## 4339 0.21951220 0.60396040 0.4804311 0.30957640 0.326812097
## 4340 0.37804878 0.41336634 0.5229722 0.16395856 0.695758703
## 4341 0.53658537 0.35643564 0.4716393 0.46977948 0.462280897
## 4342 0.64634146 0.32178218 0.4512195 0.49518697 0.309082140
## 4343 0.41463415 0.52227723 0.4929098 0.48265765 0.487934010
## 4344 0.71951220 0.37871287 0.4838344 0.63134575 0.360868981
## 4345 0.59756098 0.41831683 0.4835508 0.55473664 0.468662183
## 4346 0.24390244 0.49504950 0.4869541 0.13408303 0.444026752
## 4347 0.40243902 0.40346535 0.4685196 0.49301396 0.530765043
## 4348 0.43902439 0.62128713 0.4872377 0.51138570 0.416434696
## 4349 0.37804878 0.24009901 0.4818491 0.68119383 0.543563194
## 4350 0.56097561 0.39356436 0.4968803 0.63137721 0.539727415
## 4351 0.64634146 0.64356436 0.4815655 0.64969400 0.325655757
## 4352 0.68292683 0.50990099 0.4815655 0.60357905 0.456137118
## 4353 0.43902439 0.57425743 0.4869541 0.57779292 0.604896660
## 4354 0.41463415 0.49257426 0.4790130 0.53033457 0.210236206
## 4355 0.37804878 0.41831683 0.4781622 0.48197887 0.498182772
## 4356 0.47560976 0.28217822 0.3996029 0.41517793 0.475272673
## 4357 0.31707317 0.54207921 0.5087918 0.40074626 0.325101188
## 4358 0.24390244 0.71534653 0.4985820 0.21320289 0.543332415
## 4359 0.43902439 0.39851485 0.5127623 0.45039553 0.392819577
## 4360 0.25609756 0.53712871 0.4985820 0.40125039 0.301987580
## 4361 0.62195122 0.61138614 0.4841180 0.58927078 0.358595820
## 4362 0.37804878 0.63366337 0.4475326 0.44090126 0.124082236
## 4363 0.43902439 0.42821782 0.4727737 0.51361933 0.587201016
## 4364 0.37804878 0.58415842 0.4554736 0.47432062 0.476666865
```

```
## 4365 0.43902439 0.38118812 0.4880885 0.37210853 0.359836726
## 4366 0.41463415 0.36386139 0.4988656 0.50221785 0.469140439
## 4367 0.50000000 0.53217822 0.4781622 0.52114038 0.537920345
## 4368 0.52439024 0.54702970 0.4974475 0.50538761 0.418611955
## 4369 0.34146341 0.56683168 0.4809983 0.57062811 0.526176529
## 4370 0.64634146 0.47277228 0.4838344 0.61650897 0.299427224
## 4371 0.65853659 0.32425743 0.4963131 0.59395364 0.538807248
## 4372 0.53658537 0.49752475 0.4926262 0.51544008 0.484880685
## 4373 0.47560976 0.48267327 0.4846852 0.48863291 0.369050669
## 4374 0.58536585 0.66584158 0.5802609 0.59051643 0.533551508
## 4375 0.52439024 0.39356436 0.4895065 0.48897372 0.506478310
## 4376 0.56097561 0.38118812 0.4673851 0.58271748 0.375722315
## 4377 0.56097561 0.47524752 0.4520703 0.58332601 0.524622315
## 4378 0.56097561 0.49752475 0.4744753 0.43132014 0.573267314
## 4379 0.62195122 0.42821782 0.4770278 0.62073251 0.485442172
## 4380 0.56097561 0.56930693 0.5048213 0.36214510 0.389287553
## 4381 0.46341463 0.44801980 0.4889393 0.36921325 0.520180862
## 4382 0.50000000 0.31188119 0.4866704 0.59445874 0.383837182
## 4383 0.50000000 0.58910891 0.4982984 0.49923404 0.545314935
## 4384 0.40243902 0.43069307 0.4909246 0.60768243 0.478789424
## 4385 0.52439024 0.48762376 0.4880885 0.51319625 0.474609999
## 4386 0.43902439 0.60148515 0.4929098 0.46680551 0.587456700
## 4387 0.28048780 0.36138614 0.4880885 0.36792712 0.553350599
## 4388 0.46341463 0.48019802 0.4832672 0.54446932 0.453004171
## 4389 0.50000000 0.43069307 0.4812819 0.64782201 0.306144757
## 4390 0.50000000 0.47772277 0.4892229 0.46508390 0.499300523
## 4391 0.47560976 0.43069307 0.5039705 0.50835585 0.508664442
## 4392 0.47560976 0.46534653 0.4699376 0.43713766 0.462081095
## 4393 0.42682927 0.42821782 0.4844016 0.50564272 0.485716844
## 4394 0.56097561 0.45792079 0.4824163 0.65230680 0.484062811
## 4395 0.47560976 0.49752475 0.4920590 0.58060507 0.563926670
## 4396 0.40243902 0.42821782 0.4835508 0.42072650 0.522226749
## 4397 0.52439024 0.43069307 0.4815655 0.46335470 0.385820081
## 4398 0.46341463 0.49009901 0.4855360 0.47789081 0.347078971
## 4399 0.74390244 0.40841584 0.4889393 0.56406982 0.612459958
## 4400 0.50000000 0.34653465 0.5053885 0.57948767 0.566772176
## 4401 0.64634146 0.44306931 0.4594441 0.54391926 0.503860695
## 4402 0.43902439 0.60643564 0.4688032 0.33273813 0.461235950
## 4403 0.74390244 0.53465347 0.4880885 0.59610697 0.320015288
## 4404 0.65853659 0.40346535 0.4971639 0.51495700 0.460428581
## 4405 0.58536585 0.38366337 0.5073738 0.51001503 0.546757803
## 4406 0.47560976 0.31435644 0.5167328 0.60197514 0.804777174
## 4407 0.68292683 0.44306931 0.5019853 0.58829723 0.286295167
## 4408 0.47560976 0.41831683 0.4662507 0.50739584 0.349433031
## 4409 0.50000000 0.60643564 0.4900737 0.37554421 0.225741314
## 4410 0.50000000 0.56188119 0.4804311 0.47849864 0.360305512
## 4411 0.47560976 0.40841584 0.4713556 0.46547135 0.360272341
## 4412 0.46341463 0.73514851 0.4801475 0.52405475 0.301545845
## 4413 0.62195122 0.51237624 0.4892229 0.57085070 0.545728170
## 4414 0.59756098 0.47524752 0.4707884 0.56719521 0.418117643
## 4415 0.50000000 0.67079208 0.4597277 0.47311250 0.586821792
## 4416 0.56097561 0.49504950 0.4597277 0.54037313 0.443490737
## 4417 0.46341463 0.56930693 0.4997164 0.58621038 0.627563307
## 4418 0.58536585 0.63118812 0.4716393 0.53360213 0.356364238
## 4419 0.43902439 0.42079208 0.4897901 0.38304682 0.637377032
## 4420 0.46341463 0.55445545 0.5008508 0.45577723 0.572038527
## 4421 0.58536585 0.40346535 0.4685196 0.62071537 0.639533890
## 4422 0.43902439 0.54702970 0.4982984 0.57559977 0.474891042
```

```
## 4423 0.63414634 0.29207921 0.4773114 0.81295965 0.449609187
## 4424 0.41463415 0.40346535 0.4741917 0.50884494 0.201916878
## 4425 0.50000000 0.43811881 0.4880885 0.43913986 0.435863179
## 4426 0.40243902 0.47524752 0.4855360 0.45734429 0.458094188
## 4427 0.52439024 0.46534653 0.4509359 0.47186848 0.578268655
## 4428 0.64634146 0.54702970 0.4821327 0.55111273 0.248595656
## 4429 0.53658537 0.54207921 0.5068066 0.51014360 0.707372960
## 4430 0.43902439 0.52475248 0.4546228 0.45816182 0.429164300
## 4431 0.43902439 0.40841584 0.4980147 0.44337947 0.675694623
## 4432 0.71951220 0.53960396 0.5119115 0.45567781 0.417397734
## 4433 0.62195122 0.47524752 0.4722065 0.54230070 0.626733707
## 4434 0.65853659 0.57673267 0.4566081 0.71534518 0.445572120
## 4435 0.59756098 0.43564356 0.5002836 0.62674043 0.634088240
## 4436 0.43902439 0.41831683 0.4744753 0.47253138 0.592421124
## 4437 0.31707317 0.41831683 0.5005672 0.22288482 0.411060109
## 4438 0.47560976 0.35148515 0.5255247 0.51090918 0.568067048
## 4439 0.71951220 0.17326733 0.4756098 0.56150357 0.382055626
## 4440 0.56097561 0.51237624 0.5045377 0.39784829 0.497195457
## 4441 0.63414634 0.28465347 0.4690868 0.76055600 0.427619575
## 4442 0.47560976 0.45297030 0.4878049 0.42294260 0.333441416
## 4443 0.53658537 0.50000000 0.5034033 0.47169686 0.474180617
## 4444 0.52439024 0.48762376 0.4543392 0.62601506 0.505114206
## 4445 0.31707317 0.52970297 0.4818491 0.36676189 0.620742479
## 4446 0.62195122 0.51485149 0.4926262 0.52315858 0.447234655
## 4447 0.46341463 0.47277228 0.4940442 0.29505558 0.344798855
## 4448 0.50000000 0.50247525 0.5031197 0.51252104 0.574059948
## 4449 0.34146341 0.59900990 0.4818491 0.33277739 0.444381561
## 4450 0.47560976 0.45544554 0.4994328 0.40200508 0.377400475
## 4451 0.56097561 0.41831683 0.4835508 0.41848103 0.402581323
## 4452 0.62195122 0.61881188 0.4861032 0.57502464 0.581955134
## 4453 0.34146341 0.45544554 0.4824163 0.29133340 0.332486183
## 4454 0.57317073 0.37871287 0.4912082 0.67693106 0.474821650
## 4455 0.53658537 0.53217822 0.4903573 0.54766862 0.731476551
## 4456 0.24390244 0.68316832 0.4798639 0.21233805 0.446237256
## 4457 0.37804878 0.57178218 0.4863868 0.49587846 0.533903953
## 4458 0.43902439 0.52227723 0.4914918 0.56918466 0.568341194
## 4459 0.50000000 0.40346535 0.4699376 0.39176054 0.356077476
## 4460 0.57317073 0.38861386 0.4934770 0.55572578 0.301873943
## 4461 0.65853659 0.29455446 0.4861032 0.55769042 0.427455085
## 4462 0.53658537 0.49009901 0.4733409 0.64511610 0.403355553
## 4463 0.40243902 0.44306931 0.4923426 0.50001500 0.245788214
## 4464 0.52439024 0.37376238 0.4498015 0.47506105 0.506440438
## 4465 0.53658537 0.38366337 0.4988656 0.60705946 0.478551146
## 4466 0.59756098 0.42821782 0.4815655 0.52056508 0.697401773
## 4467 0.62195122 0.37623762 0.4812819 0.50648169 0.355169067
## 4468 0.28048780 0.51732673 0.4716393 0.36606891 0.468644696
## 4469 0.41463415 0.50495050 0.5008508 0.40417836 0.305461130
## 4470 0.52439024 0.42574257 0.5014180 0.58795244 0.482551489
## 4471 0.62195122 0.56683168 0.5017016 0.48195138 0.369421823
## 4472 0.46341463 0.58168317 0.5499149 0.48826620 0.648260364
## 4473 0.63414634 0.52722772 0.5045377 0.52423175 0.652266172
## 4474 0.53658537 0.33415842 0.4914918 0.48019319 0.262413817
## 4475 0.43902439 0.66831683 0.4795803 0.43777227 0.280229710
## 4476 0.59756098 0.57920792 0.4844016 0.71610816 0.517508363
## 4477 0.43902439 0.39851485 0.4642655 0.51383102 0.637742095
## 4478 0.80487805 0.17821782 0.4758934 0.61573943 0.453201620
## 4479 0.59756098 0.44306931 0.5181509 0.53507727 0.503136020
## 4480 0.59756098 0.70049505 0.4764606 0.46791491 0.232584781
```

```
## 4481 0.56097561 0.47029703 0.4792967 0.67118690 0.457561334
## 4482 0.43902439 0.51485149 0.4849688 0.48215063 0.587867499
## 4483 0.62195122 0.58663366 0.4787294 0.58769994 0.380379393
## 4484 0.53658537 0.57673267 0.4951787 0.47191428 0.452651465
## 4485 0.74390244 0.35891089 0.4631310 0.68392074 0.355044442
## 4486 0.50000000 0.29455446 0.4486670 0.58310016 0.356287736
## 4487 0.52439024 0.56683168 0.4923426 0.45576881 0.303825353
## 4488 0.40243902 0.50990099 0.4671015 0.45471259 0.530484414
## 4489 0.34146341 0.45544554 0.4512195 0.36490795 0.346153513
## 4490 0.43902439 0.30445545 0.5087918 0.50510598 0.483232357
## 4491 0.50000000 0.38118812 0.4256948 0.52344073 0.450058676
## 4492 0.37804878 0.50495050 0.5076574 0.49259081 0.478493684
## 4493 0.40243902 0.61633663 0.4792967 0.39481591 0.426826163
## 4494 0.43902439 0.60148515 0.4804311 0.51005725 0.595506003
## 4495 0.65853659 0.51980198 0.4639818 0.58760960 0.517164856
## 4496 0.65853659 0.26237624 0.4724901 0.51336343 0.357041012
## 4497 0.64634146 0.34653465 0.4994328 0.57207581 0.617065611
## 4498 0.62195122 0.53960396 0.4520703 0.79583584 0.460232223
## 4499 0.43902439 0.74504950 0.4977311 0.41899313 0.375409153
## 4500 0.41463415 0.44801980 0.4931934 0.59454295 0.565286643
## 4501 0.52439024 0.35643564 0.4671015 0.56496762 0.363755614
## 4502 0.43902439 0.57425743 0.4705048 0.62789340 0.585682436
## 4503 0.30487805 0.45544554 0.4736245 0.36707687 0.433594617
## 4504 0.21951220 0.66089109 0.5014180 0.37986100 0.569897891
## 4505 0.56097561 0.64603960 0.5121951 0.51171094 0.554916115
## 4506 0.36585366 0.66089109 0.4705048 0.38165113 0.261316828
## 4507 0.58536585 0.41831683 0.4912082 0.51187923 0.501825904
## 4508 0.31707317 0.62376238 0.4886557 0.42573350 0.475822954
## 4509 0.65853659 0.30940594 0.5042541 0.56344959 0.396075761
## 4510 0.69512195 0.42326733 0.5102099 0.45159447 0.593195356
## 4511 0.53658537 0.48762376 0.4897901 0.77203538 0.560930804
## 4512 0.56097561 0.19306931 0.4900737 0.36260932 0.349581120
## 4513 0.30487805 0.54950495 0.4688032 0.33266237 0.328639189
## 4514 0.31707317 0.55198020 0.4880885 0.45761776 0.501393901
## 4515 0.62195122 0.20792079 0.4540556 0.49308029 0.373184528
## 4516 0.62195122 0.41336634 0.4844016 0.53860508 0.365361155
## 4517 0.53658537 0.42821782 0.4920590 0.44588698 0.502330149
## 4518 0.37804878 0.41584158 0.4903573 0.37529355 0.360829627
## 4519 0.42682927 0.59653465 0.4710720 0.41374367 0.248598103
## 4520 0.34146341 0.52227723 0.4869541 0.43186510 0.498839322
## 4521 0.74390244 0.34405941 0.4824163 0.52277732 0.492686348
## 4522 0.65853659 0.56683168 0.4756098 0.49748218 0.341120726
## 4523 0.31707317 0.56930693 0.4980147 0.37199511 0.475416171
## 4524 0.56097561 0.46039604 0.4804311 0.64420450 0.567890483
## 4525 0.43902439 0.40841584 0.4951787 0.44279291 0.672987333
## 4526 0.43902439 0.41584158 0.4702212 0.59159402 0.366689130
## 4527 0.52439024 0.39851485 0.5113443 0.48305299 0.487995493
## 4528 0.69512195 0.24504950 0.4795803 0.79610391 0.384674535
## 4529 0.37804878 0.38118812 0.4909246 0.35695546 0.584647004
## 4530 0.53658537 0.43069307 0.4997164 0.53428418 0.511752703
## 4531 0.43902439 0.52475248 0.4739081 0.60989692 0.544635664
## 4532 0.41463415 0.54702970 0.4878049 0.48830138 0.498481679
## 4533 0.40243902 0.81188119 0.4838344 0.45929854 0.542074447
## 4534 0.78048780 0.27475248 0.4733409 0.59700000 0.414666838
## 4535 0.59756098 0.34653465 0.4815655 0.61784290 0.494524000
## 4536 0.50000000 0.53712871 0.4900737 0.31737248 0.490113867
## 4537 0.50000000 0.55940594 0.4923426 0.60539852 0.568140563
## 4538 0.37804878 0.31188119 0.4792967 0.50546188 0.598105167
```

```
## 4539 0.80487805 0.39108911 0.4832672 0.71579659 0.463917280
## 4540 0.52439024 0.38366337 0.4931934 0.56555656 0.609795157
## 4541 0.31707317 0.53960396 0.4883721 0.44546815 0.333237465
## 4542 0.50000000 0.53712871 0.4778786 0.47339548 0.698880353
## 4543 0.43902439 0.36386139 0.4909246 0.53233807 0.522680773
## 4544 0.13414634 0.41336634 0.4835508 0.10761782 0.529441070
## 4545 0.53658537 0.42326733 0.4466818 0.48789584 0.454270122
## 4546 0.50000000 0.37376238 0.4818491 0.51992756 0.464001089
## 4547 0.56097561 0.50742574 0.5085082 0.47543893 0.625246327
## 4548 0.37804878 0.62376238 0.4503687 0.61170518 0.422057140
## 4549 0.63414634 0.23514851 0.4909246 0.67368230 0.562849746
## 4550 0.40243902 0.45792079 0.4818491 0.43128735 0.460475025
## 4551 0.58536585 0.45049505 0.4897901 0.38860213 0.477561499
## 4552 0.62195122 0.55198020 0.4909246 0.52667222 0.552658333
## 4553 0.40243902 0.38366337 0.4886557 0.26102111 0.484711612
## 4554 0.31707317 0.62128713 0.4917754 0.39802179 0.522788284
## 4555 0.62195122 0.58663366 0.4886557 0.39663309 0.410084767
## 4556 0.43902439 0.29455446 0.5011344 0.39543232 0.583913717
## 4557 0.41463415 0.48514851 0.4773114 0.43130945 0.435254296
## 4558 0.59756098 0.38861386 0.4673851 0.60241699 0.558415523
## 4559 0.46341463 0.46782178 0.4957459 0.44257999 0.327735470
## 4560 0.41463415 0.59158416 0.5000000 0.48544358 0.615230433
## 4561 0.43902439 0.52227723 0.4909246 0.55559765 0.438228726
## 4562 0.53658537 0.45544554 0.4863868 0.45469000 0.480513220
## 4563 0.50000000 0.58910891 0.4809983 0.56678253 0.386093962
## 4564 0.40243902 0.54950495 0.4832672 0.37993065 0.468666823
## 4565 0.50000000 0.46782178 0.4883721 0.47509928 0.521484579
## 4566 0.59756098 0.55693069 0.4809983 0.55748204 0.439184089
## 4567 0.53658537 0.49257426 0.4832672 0.47939325 0.328446720
## 4568 0.46341463 0.40594059 0.4804311 0.46061968 0.215149587
## 4569 0.59756098 0.39603960 0.4832672 0.44273229 0.525220909
## 4570 0.37804878 0.45049505 0.4861032 0.38221011 0.533112414
## 4571 0.71951220 0.47277228 0.4826999 0.49224914 0.399965624
## 4572 0.59756098 0.42326733 0.4818491 0.56790650 0.287853474
## 4573 0.56097561 0.53960396 0.4838344 0.53070802 0.398787742
## 4574 0.47560976 0.54207921 0.4841180 0.48877269 0.488560897
## 4575 0.36585366 0.56930693 0.4841180 0.50922984 0.395425100
## 4576 0.43902439 0.58910891 0.4906410 0.45409050 0.391990698
## 4577 0.43902439 0.48514851 0.4818491 0.56478933 0.551826506
## 4578 0.58536585 0.49009901 0.4614294 0.51929963 0.344327665
## 4579 0.59756098 0.26237624 0.4713556 0.49718672 0.367432592
## 4580 0.43902439 0.60396040 0.4758934 0.43840146 0.456840772
## 4581 0.37804878 0.57673267 0.4985820 0.29419497 0.495683895
## 4582 0.56097561 0.36633663 0.5034033 0.52225140 0.697415120
## 4583 0.74390244 0.31188119 0.4818491 0.71119368 0.588636042
## 4584 0.31707317 0.54950495 0.4937606 0.33996678 0.374048955
## 4585 0.84146341 0.43069307 0.4812819 0.76385847 0.480008490
## 4586 0.47560976 0.40346535 0.4889393 0.55199191 0.434893528
## 4587 0.58536585 0.41831683 0.4909246 0.50967710 0.502193607
## 4588 0.59756098 0.58910891 0.4846852 0.41453271 0.601709270
## 4589 0.59756098 0.53217822 0.4991492 0.56782866 0.553884810
## 4590 0.50000000 0.57920792 0.4747589 0.56205945 0.339255735
## 4591 0.52439024 0.34405941 0.4826999 0.49189081 0.459458819
## 4592 0.43902439 0.48019802 0.4716393 0.49698573 0.428894564
## 4593 0.40243902 0.61633663 0.4861032 0.50007824 0.530027802
## 4594 0.47560976 0.49009901 0.4968803 0.44789365 0.099851158
## 4595 0.34146341 0.62128713 0.4730573 0.30112974 0.355338788
## 4596 0.31707317 0.54455446 0.4824163 0.52644660 0.426273590
```

```
## 4597 0.47560976 0.58168317 0.4826999 0.70415334 0.596200247
## 4598 0.56097561 0.51732673 0.4841180 0.62404466 0.321092508
## 4599 0.57317073 0.28712871 0.4832672 0.78303389 0.520947469
## 4600 0.56097561 0.33415842 0.4940442 0.53366203 0.415716626
## 4601 0.50000000 0.59900990 0.4880885 0.55055943 0.548963595
## 4602 0.31707317 0.62128713 0.4923426 0.40064655 0.529640080
## 4603 0.56097561 0.44801980 0.4920590 0.43949351 0.472619116
## 4604 0.52439024 0.50495050 0.4750425 0.63177967 0.375626022
## 4605 0.62195122 0.30693069 0.4758934 0.66199300 0.691857507
## 4606 0.69512195 0.43811881 0.4795803 0.81280008 0.498845229
## 4607 0.53658537 0.45049505 0.4886557 0.49475209 0.493733920
## 4608 0.65853659 0.42574257 0.4880885 0.55075966 0.667025932
## 4609 0.43902439 0.42821782 0.4645491 0.53072718 0.318648767
## 4610 0.47560976 0.57920792 0.5062394 0.43925606 0.576758449
## 4611 0.62195122 0.33415842 0.4744753 0.62160251 0.380091233
## 4612 0.57317073 0.38613861 0.4719229 0.58025134 0.196132895
## 4613 0.68292683 0.41584158 0.5068066 0.58390113 0.601400560
## 4614 0.35365854 0.44059406 0.4906410 0.47889251 0.680528894
## 4615 0.56097561 0.53465347 0.4923426 0.50946553 0.509946993
## 4616 0.53658537 0.38861386 0.4812819 0.56309150 0.529926185
## 4617 0.62195122 0.38366337 0.4863868 0.43648199 0.428235335
## 4618 0.47560976 0.50495050 0.4980147 0.35872710 0.468602564
## 4619 0.41463415 0.44059406 0.4824163 0.55554349 0.495783818
## 4620 0.59756098 0.39851485 0.4869541 0.54675397 0.489987352
## 4621 0.56097561 0.44306931 0.4801475 0.56120095 0.473078764
## 4622 0.34146341 0.47029703 0.4869541 0.51042369 0.460430634
## 4623 0.43902439 0.46534653 0.4787294 0.50365107 0.403083861
## 4624 0.50000000 0.41584158 0.4841180 0.34536739 0.497995848
## 4625 0.56097561 0.40594059 0.4931934 0.41249777 0.540218738
## 4626 0.37804878 0.57178218 0.4807147 0.44597807 0.448819783
## 4627 0.36585366 0.45049505 0.4841180 0.39570823 0.395835815
## 4628 0.53658537 0.32425743 0.4849688 0.41519196 0.595818616
## 4629 0.62195122 0.36386139 0.4844016 0.50963592 0.411531495
## 4630 0.53658537 0.44306931 0.4846852 0.52904586 0.593091850
## 4631 0.43902439 0.39108911 0.4792967 0.44190820 0.610824694
## 4632 0.37804878 0.62871287 0.4787294 0.43075877 0.494444721
## 4633 0.46341463 0.53712871 0.4878049 0.41308811 0.555046048
## 4634 0.31707317 0.46287129 0.4807147 0.31118639 0.315262356
## 4635 0.59756098 0.34405941 0.4753261 0.46949482 0.427288410
## 4636 0.50000000 0.54702970 0.4897901 0.53082729 0.305416888
## 4637 0.68292683 0.45297030 0.4906410 0.47082292 0.495987320
## 4638 0.59756098 0.33415842 0.4804311 0.60341511 0.673553138
## 4639 0.58536585 0.29207921 0.4838344 0.61663799 0.599184838
## 4640 0.43902439 0.43069307 0.4795803 0.39947399 0.562928612
## 4641 0.34146341 0.61881188 0.4849688 0.42040627 0.399591125
## 4642 0.24390244 0.58663366 0.5048213 0.24726764 0.421350970
## 4643 0.37804878 0.59653465 0.4883721 0.41084360 0.588335286
## 4644 0.62195122 0.34653465 0.4775950 0.55513314 0.502888298
## 4645 0.43902439 0.40346535 0.4795803 0.59121343 0.460794583
## 4646 0.43902439 0.42574257 0.4656835 0.60698436 0.439875510
## 4647 0.43902439 0.66336634 0.4778786 0.39339380 0.339868866
## 4648 0.56097561 0.31188119 0.5087918 0.52419969 0.607665306
## 4649 0.15853659 0.56435644 0.4971639 0.14984948 0.524442877
## 4650 0.56097561 0.43316832 0.4719229 0.61371540 0.439455721
## 4651 0.43902439 0.54207921 0.4688032 0.45880042 0.427796176
## 4652 0.50000000 0.48267327 0.4846852 0.42360262 0.484911636
## 4653 0.56097561 0.70049505 0.4730573 0.50823457 0.473845585
## 4654 0.40243902 0.44306931 0.4855360 0.44909350 0.407575036
```

```
## 4655 0.46341463 0.56683168 0.4889393 0.42685939 0.384309586
## 4656 0.43902439 0.34405941 0.4818491 0.52457740 0.480211489
## 4657 0.53658537 0.25990099 0.4971639 0.54779318 0.520908804
## 4658 0.28048780 0.49504950 0.5002836 0.37394071 0.534605453
## 4659 0.56097561 0.50495050 0.4787294 0.51361060 0.436702250
## 4660 0.62195122 0.51732673 0.4764606 0.75430442 0.362812214
## 4661 0.43902439 0.47277228 0.4985820 0.52855545 0.569251099
## 4662 0.52439024 0.44059406 0.4744753 0.62226925 0.417569314
## 4663 0.52439024 0.45297030 0.4798639 0.51555557 0.456644389
## 4664 0.69512195 0.43564356 0.4849688 0.52345133 0.481001471
## 4665 0.62195122 0.44059406 0.4727737 0.50728136 0.403116005
## 4666 0.40243902 0.54702970 0.5011344 0.45669152 0.571082109
## 4667 0.53658537 0.40841584 0.4841180 0.61833200 0.533637480
## 4668 0.40243902 0.64603960 0.4838344 0.39298452 0.525042720
## 4669 0.41463415 0.43564356 0.4965967 0.61258654 0.601300167
## 4670 0.46341463 0.54950495 0.4926262 0.38110408 0.325858489
## 4671 0.50000000 0.49504950 0.4653999 0.47468967 0.449205566
## 4672 0.50000000 0.45544554 0.4798639 0.61180231 0.432947689
## 4673 0.43902439 0.45544554 0.4875213 0.26662566 0.538769997
## 4674 0.65853659 0.40346535 0.4767442 0.62545879 0.453740567
## 4675 0.40243902 0.54455446 0.4914918 0.61605142 0.423901262
## 4676 0.50000000 0.32425743 0.4580261 0.55039188 0.612598415
## 4677 0.59756098 0.31930693 0.4634146 0.43501589 0.607398443
## 4678 0.62195122 0.49009901 0.5085082 0.48576839 0.506857697
## 4679 0.64634146 0.40099010 0.4790130 0.54766011 0.393413225
## 4680 0.58536585 0.45049505 0.4965967 0.64274180 0.666413445
## 4681 0.53658537 0.57425743 0.4659671 0.66323963 0.519905248
## 4682 0.62195122 0.47524752 0.4724901 0.53882997 0.639254135
## 4683 0.50000000 0.28465347 0.4977311 0.54709607 0.601259397
## 4684 0.28048780 0.35643564 0.4540556 0.41219433 0.616303974
## 4685 0.62195122 0.43069307 0.4699376 0.65589819 0.418590987
## 4686 0.56097561 0.51237624 0.4744753 0.54469005 0.443891891
## 4687 0.56097561 0.44059406 0.5158820 0.53310219 0.316056291
## 4688 0.62195122 0.52722772 0.4929098 0.56019127 0.397474213
## 4689 0.46341463 0.32178218 0.5292116 0.34610265 0.524503850
## 4690 0.43902439 0.34900990 0.5065230 0.34575796 0.677226200
## 4691 0.52439024 0.54455446 0.4705048 0.54437636 0.444018461
## 4692 0.47560976 0.45297030 0.4693704 0.57059620 0.290447078
## 4693 0.43902439 0.16831683 0.5085082 0.49868664 0.540110077
## 4694 0.56097561 0.33415842 0.4588769 0.43132230 0.500108964
## 4695 0.37804878 0.47029703 0.5008508 0.51634995 0.381097571
## 4696 0.40243902 0.48267327 0.5246739 0.32602369 0.323454889
## 4697 0.78048780 0.27227723 0.4693704 0.61955106 0.362885217
## 4698 0.43902439 0.62871287 0.4798639 0.37330306 0.317550706
## 4699 0.80487805 0.41584158 0.4722065 0.73826419 0.403340319
## 4700 0.52439024 0.54455446 0.4809983 0.62041032 0.400997514
## 4701 0.75609756 0.45544554 0.4602950 0.63628072 0.405634114
## 4702 0.62195122 0.32920792 0.5017016 0.59711810 0.517457000
## 4703 0.40243902 0.50000000 0.4764606 0.38197130 0.298594750
## 4704 0.58536585 0.41089109 0.4756098 0.47310803 0.428282065
## 4705 0.47560976 0.40594059 0.4665343 0.47967998 0.413634148
## 4706 0.62195122 0.41089109 0.5354509 0.57523009 0.436027039
## 4707 0.34146341 0.39851485 0.4671015 0.55625344 0.512758651
## 4708 0.43902439 0.38366337 0.4764606 0.31636980 0.379145392
## 4709 0.43902439 0.51237624 0.4750425 0.42389338 0.469173564
## 4710 0.46341463 0.60396040 0.5209870 0.61740842 0.747247522
## 4711 0.53658537 0.36881188 0.4846852 0.52865894 0.351278866
## 4712 0.50000000 0.51732673 0.4747589 0.46794956 0.409913275
```

```
## 4713 0.62195122 0.49257426 0.4671015 0.60729211 0.433865005
## 4714 0.28048780 0.54950495 0.4673851 0.39475089 0.345650370
## 4715 0.59756098 0.38118812 0.4838344 0.58881019 0.522047650
## 4716 0.41463415 0.42574257 0.4767442 0.40133078 0.410226140
## 4717 0.56097561 0.32673267 0.5365854 0.40971823 0.328642019
## 4718 0.37804878 0.56930693 0.4710720 0.52563448 0.423676028
## 4719 0.74390244 0.31188119 0.4849688 0.61320594 0.568481169
## 4720 0.41463415 0.32425743 0.4846852 0.64617159 0.537626303
## 4721 0.50000000 0.55940594 0.5059558 0.37309437 0.591058295
## 4722 0.46341463 0.61881188 0.4469654 0.34927329 0.161389069
## 4723 0.34146341 0.52970297 0.4733409 0.40783662 0.382515334
## 4724 0.46341463 0.31188119 0.4778786 0.40427160 0.626148130
## 4725 0.34146341 0.78712871 0.5000000 0.19086648 0.686080394
## 4726 0.56097561 0.51237624 0.4597277 0.46696271 0.366643241
## 4727 0.80487805 0.64603960 0.4475326 0.87353758 0.392959026
## 4728 0.40243902 0.58910891 0.5019853 0.42265493 0.459033456
## 4729 0.52439024 0.45049505 0.4543392 0.51188702 0.501407133
## 4730 0.50000000 0.47277228 0.5130459 0.48691372 0.666129600
## 4731 0.58536585 0.56188119 0.4773114 0.52593611 0.503589215
## 4732 0.43902439 0.45544554 0.4744753 0.24697016 0.566824441
## 4733 0.53658537 0.48762376 0.4809983 0.63713619 0.405151340
## 4734 0.68292683 0.49752475 0.4804311 0.65027564 0.298436512
## 4735 0.43902439 0.33168317 0.5096427 0.30880512 0.541436897
## 4736 0.41463415 0.38118812 0.5104935 0.34557233 0.695593348
## 4737 0.41463415 0.78960396 0.4937606 0.52208943 0.333767617
## 4738 0.37804878 0.49752475 0.5155984 0.49572423 0.164760415
## 4739 0.37804878 0.58663366 0.5059558 0.39950007 0.514036028
## 4740 0.68292683 0.25495050 0.4804311 0.62491455 0.590524070
## 4741 0.68292683 0.44306931 0.4642655 0.62413598 0.522950127
## 4742 0.42682927 0.60148515 0.4994328 0.52331228 0.555058089
## 4743 0.75609756 0.29207921 0.5031197 0.62224808 0.713519514
## 4744 0.58536585 0.34900990 0.4878049 0.56995543 0.479252165
## 4745 0.75609756 0.38613861 0.4143505 0.77934105 0.342065237
## 4746 0.56097561 0.27475248 0.4770278 0.47829676 0.350794226
## 4747 0.46341463 0.58910891 0.4662507 0.49300961 0.338552999
## 4748 0.56097561 0.34653465 0.4792967 0.54996677 0.543561652
## 4749 0.43902439 0.61138614 0.4977311 0.39274571 0.459527509
## 4750 0.40243902 0.53465347 0.4719229 0.48440189 0.298558835
## 4751 0.50000000 0.49257426 0.4690868 0.50385599 0.483612683
## 4752 0.62195122 0.37871287 0.4954623 0.49049300 0.584190065
## 4753 0.50000000 0.46287129 0.4770278 0.52345896 0.405913235
## 4754 0.63414634 0.43564356 0.5034033 0.62443175 0.597726606
## 4755 0.24390244 0.54702970 0.5161656 0.24012896 0.655356542
## 4756 0.58536585 0.53217822 0.4407260 0.50218473 0.345652561
## 4757 0.46341463 0.47277228 0.4736245 0.42866350 0.444454917
## 4758 0.52439024 0.46039604 0.4878049 0.48876336 0.277328467
## 4759 0.50000000 0.47524752 0.4826999 0.46160926 0.458252233
## 4760 0.37804878 0.41584158 0.4965967 0.29741475 0.641620452
## 4761 0.43902439 0.48019802 0.4608622 0.46010252 0.257903663
## 4762 0.62195122 0.68069307 0.4682360 0.50052337 0.575939049
## 4763 0.50000000 0.46782178 0.4809983 0.52637781 0.419680733
## 4764 0.41463415 0.48267327 0.4775950 0.42587895 0.428974717
## 4765 0.59756098 0.46287129 0.4920590 0.52805554 0.523171554
## 4766 0.43902439 0.57178218 0.5527510 0.55980863 0.621014956
## 4767 0.46341463 0.26485149 0.4591605 0.45460429 0.357477945
## 4768 0.52439024 0.48019802 0.4722065 0.60207384 0.571519100
## 4769 0.43902439 0.40594059 0.4787294 0.51554045 0.336061666
## 4770 0.43902439 0.50990099 0.4713556 0.55262208 0.347506306
```

```
## 4771 0.63414634 0.30198020 0.4872377 0.82211704 0.502777799
## 4772 0.47560976 0.47029703 0.5391378 0.51310294 0.638988665
## 4773 0.52439024 0.54702970 0.4920590 0.50549743 0.420268264
## 4774 0.43902439 0.46782178 0.4897901 0.40160641 0.472024683
## 4775 0.43902439 0.23514851 0.5153148 0.41727619 0.705131871
## 4776 0.47560976 0.54207921 0.4846852 0.49579462 0.492682664
## 4777 0.68292683 0.36881188 0.4900737 0.51196248 0.488846962
## 4778 0.56097561 0.44554455 0.4807147 0.55706969 0.471692211
## 4779 0.53658537 0.43811881 0.4866704 0.53087165 0.468754796
## 4780 0.50000000 0.41336634 0.4815655 0.53417279 0.408398685
## 4781 0.50000000 0.41584158 0.4841180 0.34880783 0.494685478
## 4782 0.65853659 0.28960396 0.4869541 0.50253886 0.529891185
## 4783 0.68292683 0.34158416 0.4846852 0.61733993 0.497025012
## 4784 0.47560976 0.48762376 0.4883721 0.62242032 0.540177066
## 4785 0.46341463 0.61138614 0.4858196 0.59318142 0.354187665
## 4786 0.62195122 0.36386139 0.4841180 0.50979735 0.406681554
## 4787 0.46341463 0.49009901 0.4855360 0.47552437 0.353480724
## 4788 0.47560976 0.43564356 0.4931934 0.35914945 0.501977380
## 4789 0.43902439 0.48762376 0.4838344 0.46796628 0.204189274
## 4790 0.56097561 0.24752475 0.4696540 0.52132415 0.602345368
## 4791 0.28048780 0.49504950 0.4486670 0.34783447 0.302632219
## 4792 0.31707317 0.58168317 0.5110607 0.49422504 0.498520042
## 4793 0.34146341 0.45049505 0.5252411 0.39479140 0.578652397
## 4794 0.56097561 0.10891089 0.4682360 0.45827539 0.324019933
## 4795 0.74390244 0.41336634 0.4838344 0.65140085 0.388347628
## 4796 0.50000000 0.50000000 0.4376064 0.51879239 0.488404489
## 4797 0.43902439 0.31435644 0.4824163 0.53700506 0.257003300
## 4798 0.43902439 0.59653465 0.4858196 0.48819173 0.552674682
## 4799 0.41463415 0.53960396 0.4943279 0.34725709 0.207592153
## 4800 0.50000000 0.65841584 0.4736245 0.49916429 0.394275110
## 4801 0.41463415 0.35643564 0.4838344 0.38563112 0.673195915
## 4802 0.58536585 0.34900990 0.4878049 0.57035066 0.474279161
## 4803 0.63414634 0.29950495 0.4503687 0.69247664 0.442372521
## 4804 0.65853659 0.25742574 0.5034033 0.65239875 0.534825159
## 4805 0.31707317 0.36386139 0.5343165 0.45943172 0.513494348
## 4806 0.46341463 0.36386139 0.5748724 0.51550435 0.612403429
## 4807 0.50000000 0.50247525 0.4693704 0.41782427 0.368164834
## 4808 0.50000000 0.48267327 0.4943279 0.53347946 0.452852448
## 4809 0.35365854 0.43316832 0.4807147 0.54596314 0.213252444
## 4810 0.52439024 0.56683168 0.5000000 0.44932833 0.290793961
## 4811 0.53658537 0.47772277 0.4778786 0.48637781 0.454776479
## 4812 0.43902439 0.47524752 0.5031197 0.36698183 0.382952091
## 4813 0.47560976 0.66584158 0.5036869 0.59887330 0.596035245
## 4814 0.84146341 0.51732673 0.4429949 0.80083766 0.376606159
## 4815 0.52439024 0.76237624 0.4705048 0.52518410 0.444038364
## 4816 0.50000000 0.51237624 0.4974475 0.47177578 0.296337089
## 4817 0.46341463 0.30940594 0.4821327 0.61787433 0.488289482
## 4818 0.63414634 0.35643564 0.5045377 0.42939532 0.599299260
## 4819 0.53658537 0.62623762 0.4914918 0.49461643 0.521844679
## 4820 0.56097561 0.41336634 0.4926262 0.39398025 0.503377395
## 4821 0.13414634 0.63366337 0.4807147 0.25688686 0.369640430
## 4822 0.58536585 0.40346535 0.4761770 0.42578128 0.389763088
## 4823 0.59756098 0.28465347 0.4625638 0.51963572 0.354339909
## 4824 0.46341463 0.58910891 0.4951787 0.52594947 0.569174608
## 4825 0.52439024 0.55693069 0.4838344 0.50064088 0.507422970
## 4826 0.52439024 0.47524752 0.5000000 0.54456614 0.438267064
## 4827 0.63414634 0.23514851 0.4903573 0.67544319 0.567068578
## 4828 0.62195122 0.60396040 0.5002836 0.52066667 0.586080770
```

```
## 4829 0.50000000 0.59900990 0.5025525 0.54911224 0.590104373
## 4830 0.52439024 0.49009901 0.4773114 0.60373607 0.359550555
## 4831 0.56097561 0.66584158 0.4798639 0.73605699 0.416113027
## 4832 0.53658537 0.54950495 0.5090754 0.48107712 0.661832902
## 4833 0.37804878 0.47772277 0.5011344 0.39013378 0.439842551
## 4834 0.37804878 0.40594059 0.5005672 0.31208267 0.363293901
## 4835 0.50000000 0.44801980 0.5155984 0.45806870 0.360847316
## 4836 0.41463415 0.40099010 0.4744753 0.38929221 0.557784171
## 4837 0.46341463 0.61633663 0.4591605 0.43406545 0.522061150
## 4838 0.50000000 0.49752475 0.4753261 0.70113236 0.398399668
## 4839 0.37804878 0.48762376 0.4991492 0.46090151 0.502286315
## 4840 0.34146341 0.47029703 0.4685196 0.51205412 0.414034928
## 4841 0.84146341 0.57673267 0.4849688 0.85624468 0.367315249
## 4842 0.69512195 0.39356436 0.5209870 0.41655338 0.721598486
## 4843 0.43902439 0.30940594 0.4965967 0.42586315 0.395572656
## 4844 0.62195122 0.44059406 0.4954623 0.62750157 0.640960229
## 4845 0.56097561 0.46039604 0.4895065 0.64969312 0.482972956
## 4846 0.52439024 0.69801980 0.4832672 0.59669727 0.471796725
## 4847 0.68292683 0.35148515 0.4889393 0.49205937 0.406393690
## 4848 0.52439024 0.59653465 0.4750425 0.59332993 0.541978269
## 4849 0.59756098 0.42079208 0.4931934 0.53489497 0.391695950
## 4850 0.47560976 0.54455446 0.5068066 0.49990934 0.553388373
## 4851 0.50000000 0.49009901 0.4991492 0.43728609 0.597639238
## 4852 0.65853659 0.32425743 0.4991492 0.62439715 0.462195011
## 4853 0.56097561 0.46039604 0.4671015 0.56661760 0.403340256
## 4854 0.68292683 0.59158416 0.4733409 0.63115620 0.389992313
## 4855 0.43902439 0.43316832 0.4724901 0.41352335 0.624719789
## 4856 0.71951220 0.34158416 0.4761770 0.57150945 0.384862902
## 4857 0.68292683 0.39851485 0.4875213 0.58637789 0.500756432
## 4858 0.40243902 0.70049505 0.4758934 0.43560198 0.462350642
## 4859 0.50000000 0.44554455 0.4705048 0.39953828 0.390656698
## 4860 0.71951220 0.30198020 0.4812819 0.60131974 0.392721815
## 4861 0.43902439 0.61881188 0.4659671 0.36183689 0.439785326
## 4862 0.53658537 0.47524752 0.4625638 0.57079329 0.558867148
## 4863 0.30487805 0.42821782 0.4869541 0.42047041 0.430915786
## 4864 0.31707317 0.39851485 0.5017016 0.44439222 0.272387766
## 4865 0.62195122 0.45297030 0.4917754 0.56092928 0.451560935
## 4866 0.31707317 0.41089109 0.4826999 0.45220308 0.660691239
## 4867 0.50000000 0.43564356 0.4900737 0.52811197 0.410267039
## 4868 0.56097561 0.58168317 0.4878049 0.78514991 0.644573580
## 4869 0.47560976 0.61386139 0.4869541 0.49766616 0.660347341
## 4870 0.50000000 0.54455446 0.4818491 0.38322414 0.487449597
## 4871 0.59756098 0.32920792 0.4679524 0.54192427 0.525562590
## 4872 0.65853659 0.33910891 0.5011344 0.57642593 0.602630825
## 4873 0.76829268 0.30445545 0.4977311 0.68067835 0.482329034
## 4874 0.53658537 0.64108911 0.4753261 0.55676816 0.436446001
## 4875 0.42682927 0.63861386 0.4818491 0.42552805 0.521164721
## 4876 0.31707317 0.47029703 0.4906410 0.40814017 0.524751951
## 4877 0.59756098 0.48267327 0.4795803 0.81060683 0.517543291
## 4878 0.47560976 0.43316832 0.4829836 0.40985346 0.598724234
## 4879 0.31707317 0.60148515 0.4551900 0.34411002 0.432936855
## 4880 0.69512195 0.44554455 0.4824163 0.60793658 0.642825721
## 4881 0.46341463 0.46039604 0.5068066 0.57810535 0.494175817
## 4882 0.40243902 0.53712871 0.4968803 0.30533618 0.357567223
## 4883 0.24390244 0.64356436 0.4699376 0.38225876 0.239054158
## 4884 0.50000000 0.37623762 0.4994328 0.51816771 0.555944854
## 4885 0.62195122 0.41831683 0.5246739 0.61111685 0.530927499
## 4886 0.54878049 0.50495050 0.4594441 0.43702636 0.433411631
```

447

```
## 4887 0.62195122 0.37623762 0.4861032 0.54112309 0.539789798
## 4888 0.46341463 0.45297030 0.4835508 0.35011321 0.500935878
## 4889 0.37804878 0.48267327 0.4912082 0.48494889 0.604326032
## 4890 0.53658537 0.34158416 0.4498015 0.55341506 0.485741405
## 4891 0.62195122 0.33910891 0.4937606 0.47937503 0.630328635
## 4892 0.50000000 0.44554455 0.4929098 0.39340570 0.535180394
## 4893 0.50000000 0.58910891 0.4812819 0.48402394 0.542965841
## 4894 0.56097561 0.50742574 0.4784458 0.55457604 0.479577891
## 4895 0.37804878 0.42326733 0.4705048 0.43974033 0.431421470
## 4896 0.47560976 0.31188119 0.4821327 0.44832076 0.339295976
## 4897 0.39024390 0.44801980 0.4673851 0.52941356 0.368758465
## 4898 0.56097561 0.43811881 0.4767442 0.59176618 0.534547537
## 4899 0.68292683 0.33415842 0.4747589 0.58108983 0.268028423
## 4900 0.50000000 0.35643564 0.4923426 0.39359081 0.683731818
## 4901 0.41463415 0.49257426 0.4883721 0.45908706 0.507564257
## 4902 0.46341463 0.68316832 0.4858196 0.44832003 0.470764271
## 4903 0.52439024 0.47772277 0.4801475 0.43119667 0.525473721
## 4904 0.30487805 0.50247525 0.4824163 0.47950944 0.351052501
## 4905 0.37804878 0.34900990 0.4940442 0.26213308 0.708043685
## 4906 0.64634146 0.46039604 0.4844016 0.45491677 0.460256123
## 4907 0.56097561 0.60643564 0.4818491 0.49793978 0.297720685
## 4908 0.37804878 0.42821782 0.4963131 0.29389006 0.506293621
## 4909 0.58536585 0.67079208 0.4775950 0.45609090 0.340887760
## 4910 0.47560976 0.50495050 0.4872377 0.68900402 0.430467921
## 4911 0.43902439 0.64851485 0.4957459 0.44868358 0.350738753
## 4912 0.46341463 0.68316832 0.4875213 0.45158409 0.472260305
## 4913 0.41463415 0.43316832 0.4946115 0.57725719 0.424601085
## 4914 0.40243902 0.64356436 0.4688032 0.44291891 0.530065383
## 4915 0.46341463 0.46534653 0.4821327 0.38019311 0.456398405
## 4916 0.56097561 0.33168317 0.4790130 0.69453476 0.601473159
## 4917 0.46341463 0.54455446 0.4719229 0.40522718 0.340251295
## 4918 0.68292683 0.35396040 0.4696540 0.67079533 0.446537375
## 4919 0.62195122 0.31435644 0.5150312 0.61428703 0.773731800
## 4920 0.50000000 0.34653465 0.5119115 0.57635265 0.484245021
## 4921 0.56097561 0.46782178 0.4668179 0.59971946 0.344730810
## 4922 0.56097561 0.44801980 0.4568917 0.43735240 0.317519680
## 4923 0.53658537 0.39603960 0.4775950 0.41222216 0.664495171
## 4924 0.42682927 0.39603960 0.5079410 0.54084031 0.624058806
## 4925 0.53658537 0.30940594 0.4965967 0.37996465 0.606490573
## 4926 0.35365854 0.29207921 0.4892229 0.35300811 0.578700230
## 4927 0.40243902 0.50247525 0.4792967 0.29474057 0.524657729
## 4928 0.60975610 0.34158416 0.4844016 0.44564491 0.614684498
## 4929 0.47560976 0.39356436 0.4390244 0.48332104 0.320140905
## 4930 0.24390244 0.50495050 0.5031197 0.14759238 0.496744958
## 4931 0.41463415 0.47029703 0.4895065 0.34343974 0.426679226
## 4932 0.47560976 0.40346535 0.4889393 0.54711078 0.431292017
## 4933 0.50000000 0.64356436 0.4801475 0.54220173 0.363256352
## 4934 0.40243902 0.61633663 0.4758934 0.47815456 0.135645896
## 4935 0.50000000 0.40841584 0.4761770 0.59904653 0.357752423
## 4936 0.24390244 0.53465347 0.4401588 0.26601916 0.280783962
## 4937 0.43902439 0.62128713 0.4719229 0.45548209 0.523440529
## 4938 0.43902439 0.41831683 0.4761770 0.47183549 0.591869328
## 4939 0.56097561 0.22029703 0.4892229 0.51288833 0.570263106
## 4940 0.52439024 0.53960396 0.5017016 0.52646048 0.347077871
## 4941 0.59756098 0.43069307 0.4761770 0.53390388 0.414054528
## 4942 0.31707317 0.41831683 0.5019853 0.40500833 0.535028505
## 4943 0.62195122 0.61633663 0.4807147 0.53168180 0.677378126
## 4944 0.43902439 0.40099010 0.4965967 0.45702926 0.560218253
```

448

```
## 4945 0.40243902 0.54455446 0.4917754 0.21809409 0.366330797
## 4946 0.31707317 0.34405941 0.4960295 0.37463629 0.545348093
## 4947 0.59756098 0.35643564 0.4716393 0.59913611 0.446637136
## 4948 0.09756098 0.31683168 0.4991492 0.09488204 0.518060753
## 4949 0.64634146 0.32178218 0.4730573 0.62946048 0.411806270
## 4950 0.59756098 0.36386139 0.4296653 0.60659255 0.374676422
## 4951 0.50000000 0.45544554 0.4781622 0.51481490 0.338391933
## 4952 0.58536585 0.39851485 0.4792967 0.61840890 0.330984297
## 4953 0.50000000 0.56188119 0.4883721 0.48364059 0.481492746
## 4954 0.34146341 0.51485149 0.4971639 0.47338522 0.668706705
## 4955 0.56097561 0.60643564 0.4818491 0.52575072 0.494516323
## 4956 0.62195122 0.44059406 0.5241066 0.64523297 0.525950229
## 4957 0.56097561 0.37128713 0.4653999 0.66840042 0.223927423
## 4958 0.53658537 0.46287129 0.4775950 0.70639849 0.582291700
## 4959 0.40243902 0.50247525 0.4912082 0.43846735 0.327792363
## 4960 0.47560976 0.60396040 0.4923426 0.33891348 0.465549102
## 4961 0.62195122 0.60643564 0.4909246 0.52001942 0.579898335
## 4962 0.34146341 0.48019802 0.4849688 0.53208846 0.444895805
## 4963 0.46341463 0.50742574 0.4631310 0.42233227 0.344423358
## 4964 0.43902439 0.34653465 0.4985820 0.55122503 0.551352367
## 4965 0.58536585 0.52970297 0.4577425 0.39777769 0.492323213
## 4966 0.46341463 0.38366337 0.4931934 0.39509361 0.700023728
## 4967 0.46341463 0.53960396 0.4730573 0.36405343 0.301420544
## 4968 0.43902439 0.58663366 0.4407260 0.49973996 0.160534558
## 4969 0.52439024 0.50742574 0.4534884 0.48162045 0.411268286
## 4970 0.56097561 0.48019802 0.4648327 0.41237199 0.387307130
## 4971 0.41463415 0.32425743 0.5036869 0.36273026 0.733335360
## 4972 0.35365854 0.55693069 0.5079410 0.40272124 0.493882944
## 4973 0.43902439 0.39603960 0.5147476 0.57571913 0.280159639
## 4974 0.52439024 0.57920792 0.5028361 0.55072437 0.427960415
## 4975 0.56097561 0.51237624 0.4846852 0.67604292 0.555006235
## 4976 0.53658537 0.38861386 0.4699376 0.54343871 0.360810278
## 4977 0.30487805 0.54455446 0.4506523 0.59130921 0.231426309
## 4978 0.65853659 0.39603960 0.4673851 0.71638230 0.238534496
## 4979 0.47560976 0.24752475 0.4520703 0.45257593 0.574432816
## 4980 0.25609756 0.56930693 0.4991492 0.36081135 0.565174867
## 4981 0.40243902 0.62623762 0.4940442 0.44291079 0.698042021
## 4982 0.52439024 0.54950495 0.4971639 0.40391872 0.563512887
## 4983 0.43902439 0.61386139 0.4775950 0.53046703 0.418450478
## 4984 0.71951220 0.67079208 0.5008508 0.78158330 0.482670391
## 4985 0.50000000 0.51485149 0.5096427 0.33641970 0.618058247
## 4986 0.47560976 0.62623762 0.4781622 0.47789125 0.479695592
## 4987 0.56097561 0.39108911 0.4750425 0.50608002 0.494980302
## 4988 0.52439024 0.33910891 0.5309132 0.45156299 0.622729411
## 4989 0.30487805 0.48019802 0.4756098 0.52571574 0.306741913
## 4990 0.58536585 0.46287129 0.4988656 0.48553525 0.484155591
## 4991 0.36585366 0.44554455 0.4574589 0.41379561 0.283861081
## 4992 0.53658537 0.25742574 0.4778786 0.51631620 0.445467866
## 4993 0.59756098 0.42079208 0.4909246 0.66385491 0.501246103
## 4994 0.47560976 0.48762376 0.4829836 0.57433987 0.450759462
## 4995 0.50000000 0.46039604 0.4934770 0.46419231 0.674342621
## 4996 0.46341463 0.54950495 0.5019853 0.54310837 0.247524815
## 4997 0.46341463 0.53960396 0.4948951 0.41202262 0.561094117
## 4998 0.46341463 0.41831683 0.4781622 0.58117043 0.433792671
## 4999 0.34146341 0.47772277 0.4795803 0.28144479 0.503564393
## 5000 0.74390244 0.50000000 0.4821327 0.64697041 0.380211888
## 5001 0.50000000 0.49257426 0.4982984 0.60659083 0.550306704
## 5002 0.41463415 0.51485149 0.4960295 0.49402196 0.523452940
```

449

```
## 5003 0.53658537 0.52970297 0.4699376 0.59199217 0.464386313
## 5004 0.40243902 0.24504950 0.5017016 0.40106608 0.672958255
## 5005 0.28048780 0.50990099 0.4653999 0.48942127 0.366823023
## 5006 0.43902439 0.43564356 0.4758934 0.40363129 0.487339119
## 5007 0.43902439 0.40099010 0.4824163 0.54603015 0.526978866
## 5008 0.50000000 0.49504950 0.5056721 0.47169943 0.508901136
## 5009 0.56097561 0.36138614 0.4869541 0.56428952 0.390512529
## 5010 0.21951220 0.62871287 0.4841180 0.37702388 0.467635952
## 5011 0.59756098 0.43316832 0.4892229 0.49115090 0.494170915
## 5012 0.50000000 0.55198020 0.4869541 0.47193152 0.437640793
## 5013 0.64634146 0.43069307 0.5124787 0.47655254 0.493467493
## 5014 0.47560976 0.37623762 0.4773114 0.51901170 0.556532864
## 5015 0.52439024 0.48762376 0.4767442 0.60392687 0.362178268
## 5016 0.31707317 0.59405941 0.4855360 0.38725900 0.442615270
## 5017 0.62195122 0.43069307 0.4784458 0.59678787 0.484166698
## 5018 0.53658537 0.32425743 0.4846852 0.41428710 0.588032869
## 5019 0.52439024 0.41831683 0.4846852 0.43092170 0.468209858
## 5020 0.56097561 0.32673267 0.4855360 0.49500254 0.560478742
## 5021 0.58536585 0.52970297 0.4872377 0.49828970 0.697345617
## 5022 0.28048780 0.42326733 0.5249575 0.27320665 0.395480197
## 5023 0.53658537 0.38613861 0.4821327 0.50923471 0.365741660
## 5024 0.43902439 0.54455446 0.4787294 0.52035435 0.461449111
## 5025 0.56097561 0.45792079 0.4671015 0.65057594 0.509393163
## 5026 0.52439024 0.53465347 0.5136132 0.54857484 0.287314492
## 5027 0.42682927 0.42574257 0.4679524 0.49297569 0.401986422
## 5028 0.35365854 0.52227723 0.4713556 0.38004807 0.440979237
## 5029 0.59756098 0.39108911 0.4690868 0.75474236 0.407510237
## 5030 0.50000000 0.44801980 0.3471356 0.60967304 0.627691775
## 5031 0.47560976 0.70297030 0.5002836 0.57640192 0.346347099
## 5032 0.58536585 0.67574257 0.4812819 0.54023081 0.633856210
## 5033 0.26829268 0.41336634 0.4900737 0.52294880 0.523607799
## 5034 0.28048780 0.55693069 0.4551900 0.25666469 0.357877458
## 5035 0.50000000 0.51485149 0.4685196 0.37767635 0.414859408
## 5036 0.50000000 0.36138614 0.4628474 0.50324631 0.520528064
## 5037 0.34146341 0.54455446 0.5113443 0.39275639 0.338647136
## 5038 0.37804878 0.64603960 0.4821327 0.48185176 0.388290319
## 5039 0.74390244 0.35643564 0.4866704 0.73487142 0.534753909
## 5040 0.43902439 0.60396040 0.4841180 0.46476174 0.534437628
## 5041 0.52439024 0.59405941 0.5005672 0.57921701 0.484728802
## 5042 0.47560976 0.40841584 0.4690868 0.46537992 0.371668857
## 5043 0.62195122 0.48019802 0.4900737 0.66989725 0.442550181
## 5044 0.53658537 0.59900990 0.4747589 0.57258657 0.528370675
## 5045 0.40243902 0.41831683 0.5011344 0.52079297 0.564928273
## 5046 0.34146341 0.69801980 0.5215542 0.41287453 0.381889151
## 5047 0.59756098 0.49257426 0.4682360 0.51527048 0.674541643
## 5048 0.34146341 0.43564356 0.5266591 0.38638003 0.512372245
## 5049 0.58536585 0.40346535 0.4866704 0.52978996 0.531751733
## 5050 0.59756098 0.38118812 0.5201361 0.50357438 0.400732104
## 5051 0.62195122 0.19059406 0.4741917 0.49997764 0.465841830
## 5052 0.52439024 0.46039604 0.4662507 0.59034668 0.489456965
## 5053 0.47560976 0.58663366 0.4676687 0.39192405 0.507334936
## 5054 0.65853659 0.31930693 0.4639818 0.53240333 0.482517830
## 5055 0.62195122 0.53217822 0.4838344 0.52859879 0.523478504
## 5056 0.24390244 0.61138614 0.4790130 0.40575275 0.548004193
## 5057 0.46341463 0.46534653 0.5955757 0.54362274 0.568909901
## 5058 0.62195122 0.37871287 0.4710720 0.52897158 0.527534747
## 5059 0.56097561 0.34900990 0.4798639 0.47684503 0.403863983
## 5060 0.47560976 0.58415842 0.5053885 0.47811600 0.368394353
```

450

```
## 5061 0.37804878 0.61881188 0.4980147 0.39587344 0.328077821
## 5062 0.64634146 0.52475248 0.5113443 0.67133634 0.408005915
## 5063 0.43902439 0.37623762 0.4940442 0.39126094 0.411641441
## 5064 0.52439024 0.41089109 0.4716393 0.43261469 0.665503993
## 5065 0.30487805 0.54702970 0.5005672 0.31571410 0.581030221
## 5066 0.50000000 0.35891089 0.4560408 0.39422387 0.501907453
## 5067 0.43902439 0.41831683 0.5031197 0.46726514 0.430753743
## 5068 0.59756098 0.53217822 0.5000000 0.57213488 0.542468681
## 5069 0.52439024 0.43069307 0.4727737 0.66173630 0.348932519
## 5070 0.28048780 0.70297030 0.5104935 0.32088556 0.492222330
## 5071 0.40243902 0.50000000 0.5019853 0.53780052 0.382855208
## 5072 0.59756098 0.35396040 0.4733409 0.53663722 0.458422098
## 5073 0.43902439 0.41584158 0.5090754 0.49257762 0.627730735
## 5074 0.52439024 0.43811881 0.4554736 0.46905245 0.443655997
## 5075 0.56097561 0.46534653 0.5402723 0.52530773 0.484817873
## 5076 0.21951220 0.52970297 0.5022689 0.27744713 0.421635956
## 5077 0.56097561 0.35148515 0.4645491 0.59178424 0.291231369
## 5078 0.46341463 0.28712871 0.5195689 0.51224046 0.408988756
## 5079 0.50000000 0.54950495 0.4787294 0.42878384 0.423648915
## 5080 0.56097561 0.63613861 0.5002836 0.60605425 0.604172296
## 5081 0.43902439 0.39851485 0.4903573 0.42290581 0.527331637
## 5082 0.52439024 0.49257426 0.4614294 0.41936794 0.444268030
## 5083 0.25609756 0.61138614 0.4790130 0.33677910 0.546083624
## 5084 0.40243902 0.50495050 0.4673851 0.28474320 0.442264823
## 5085 0.53658537 0.61138614 0.4906410 0.36281481 0.449416757
## 5086 0.52439024 0.47029703 0.5124787 0.42304222 0.540387946
## 5087 0.37804878 0.68811881 0.5096427 0.48132107 0.409584937
## 5088 0.28048780 0.53960396 0.5178673 0.44658683 0.587849813
## 5089 0.65853659 0.24257426 0.5034033 0.57596244 0.596966955
## 5090 0.37804878 0.49752475 0.5260919 0.23096119 0.692031479
## 5091 0.59756098 0.38118812 0.5011344 0.48743375 0.523977056
## 5092 0.52439024 0.40841584 0.4875213 0.45580678 0.289129544
## 5093 0.46341463 0.51980198 0.5113443 0.34188839 0.435102543
## 5094 0.43902439 0.73762376 0.5034033 0.54511778 0.396617868
## 5095 0.53658537 0.48762376 0.5059558 0.55037874 0.644390083
## 5096 0.28048780 0.46534653 0.4863868 0.54075244 0.493051478
## 5097 0.40243902 0.55198020 0.4838344 0.37168224 0.464955933
## 5098 0.56097561 0.56930693 0.5187181 0.59664047 0.520410057
## 5099 0.56097561 0.47277228 0.4869541 0.37617473 0.463251737
## 5100 0.59756098 0.40594059 0.4826999 0.59470860 0.497064157
## 5101 0.31707317 0.32425743 0.4568917 0.32804904 0.471166486
## 5102 0.21951220 0.29207921 0.4957459 0.23844694 0.574798146
## 5103 0.65853659 0.39356436 0.4526375 0.58144813 0.435166434
## 5104 0.81707317 0.36633663 0.4222915 0.77526867 0.368881790
## 5105 0.37804878 0.37376238 0.4912082 0.42596278 0.469315465
## 5106 0.53658537 0.48762376 0.4605786 0.67126129 0.313084094
## 5107 0.58536585 0.46287129 0.4835508 0.52114238 0.401442243
## 5108 0.35365854 0.47029703 0.4583097 0.39930326 0.653552196
## 5109 0.50000000 0.49752475 0.4645491 0.66974591 0.451706860
## 5110 0.50000000 0.43069307 0.4614294 0.47853680 0.381874968
## 5111 0.46341463 0.56683168 0.5005672 0.42075901 0.657043094
## 5112 0.58536585 0.29455446 0.4835508 0.74767934 0.602868348
## 5113 0.52439024 0.62871287 0.4656835 0.47238749 0.357420312
## 5114 0.74390244 0.35891089 0.4693704 0.70237483 0.445557989
## 5115 0.46341463 0.38366337 0.4846852 0.43840358 0.225410544
## 5116 0.58536585 0.56930693 0.4900737 0.61044848 0.354376742
## 5117 0.62195122 0.55198020 0.4648327 0.73940604 0.416640483
## 5118 0.65853659 0.31435644 0.4753261 0.61226903 0.546205097
```

```
## 5119 0.37804878 0.55445545 0.5002836 0.43320556 0.381017208
## 5120 0.59756098 0.46039604 0.4858196 0.56313764 0.556407169
## 5121 0.50000000 0.52722772 0.3528077 0.55185709 0.657952485
## 5122 0.62195122 0.65346535 0.4821327 0.47781842 0.318429905
## 5123 0.50000000 0.44801980 0.4804311 0.57444512 0.305575493
## 5124 0.46341463 0.45544554 0.4636982 0.52875256 0.380220098
## 5125 0.47560976 0.16089109 0.4662507 0.53897774 0.492966519
## 5126 0.53658537 0.23514851 0.4934770 0.48654841 0.443615096
## 5127 0.59756098 0.41831683 0.4880885 0.54950134 0.433103337
## 5128 0.50000000 0.48762376 0.5034033 0.57031774 0.326442928
## 5129 0.53658537 0.49504950 0.4977311 0.65483310 0.645560272
## 5130 0.37804878 0.67821782 0.4954623 0.53521546 0.417260747
## 5131 0.51219512 0.41336634 0.4880885 0.24489889 0.507922888
## 5132 0.41463415 0.40346535 0.4909246 0.58853225 0.291565726
## 5133 0.80487805 0.34405941 0.4625638 0.66544825 0.421103635
## 5134 0.78048780 0.53465347 0.4529212 0.78287778 0.395527075
## 5135 0.50000000 0.41584158 0.5524674 0.40438276 0.489463069
## 5136 0.52439024 0.50495050 0.4611458 0.45491475 0.432196339
## 5137 0.52439024 0.46782178 0.4645491 0.50717238 0.471975123
## 5138 0.47560976 0.45297030 0.4741917 0.56351333 0.292023569
## 5139 0.47560976 0.38861386 0.4435621 0.52842331 0.329828071
## 5140 0.52439024 0.19059406 0.4883721 0.41677247 0.578314240
## 5141 0.13414634 0.66831683 0.5031197 0.29038694 0.575201053
## 5142 0.57317073 0.45049505 0.4781622 0.45510787 0.532404906
## 5143 0.50000000 0.51485149 0.4923426 0.45719046 0.494002898
## 5144 0.52439024 0.53960396 0.5073738 0.51031353 0.337377147
## 5145 0.40243902 0.42079208 0.5022689 0.26124556 0.306578322
## 5146 0.43902439 0.57178218 0.4948951 0.36062845 0.553407329
## 5147 0.53658537 0.48019802 0.4489507 0.37830481 0.288242690
## 5148 0.43902439 0.60396040 0.4761770 0.44291261 0.455488600
## 5149 0.50000000 0.55693069 0.4730573 0.61596226 0.302684920
## 5150 0.46341463 0.66336634 0.4931934 0.49249241 0.474284189
## 5151 0.40243902 0.30693069 0.4634146 0.34541689 0.388023892
## 5152 0.56097561 0.43069307 0.4994328 0.63747259 0.562004778
## 5153 0.50000000 0.37128713 0.4682360 0.47277935 0.217528118
## 5154 0.50000000 0.48762376 0.6077708 0.39690815 0.314422867
## 5155 0.24390244 0.28465347 0.5745888 0.29604051 0.755444546
## 5156 0.40243902 0.40594059 0.4679524 0.39279110 0.423471454
## 5157 0.31707317 0.57673267 0.5048213 0.26853736 0.671896979
## 5158 0.43902439 0.63366337 0.5136132 0.39426816 0.474993271
## 5159 0.40243902 0.41831683 0.5207033 0.39607955 0.500470100
## 5160 0.50000000 0.59900990 0.4951787 0.51667695 0.469753074
## 5161 0.50000000 0.62376238 0.4767442 0.62855732 0.529584057
## 5162 0.50000000 0.55445545 0.4798639 0.42864794 0.389889386
## 5163 0.56097561 0.57920792 0.4798639 0.72868896 0.441354570
## 5164 0.52439024 0.69059406 0.4906410 0.46820017 0.628989109
## 5165 0.43902439 0.30198020 0.4750425 0.44414247 0.357318498
## 5166 0.28048780 0.53217822 0.4897901 0.37829849 0.405907206
## 5167 0.43902439 0.40594059 0.4387408 0.54307199 0.301769629
## 5168 0.43902439 0.51237624 0.4886557 0.46904899 0.487568893
## 5169 0.31707317 0.43564356 0.4826999 0.20846024 0.468019153
## 5170 0.50000000 0.38366337 0.4855360 0.48934705 0.518785861
## 5171 0.46341463 0.53712871 0.4747589 0.36193143 0.301575433
## 5172 0.56097561 0.45049505 0.4954623 0.57251939 0.591105109
## 5173 0.40243902 0.55445545 0.4705048 0.51734340 0.414941909
## 5174 0.37804878 0.48514851 0.4940442 0.40393086 0.508680581
## 5175 0.47560976 0.60396040 0.4923426 0.58538087 0.637704090
## 5176 0.52439024 0.50000000 0.4863868 0.34693764 0.467995425
```

```
## 5177 0.37804878 0.72772277 0.4946115 0.50551695 0.558165709
## 5178 0.53658537 0.61633663 0.4948951 0.62826774 0.602005157
## 5179 0.40243902 0.47277228 0.5017016 0.41568729 0.497104898
## 5180 0.40243902 0.44554455 0.5022689 0.48945907 0.281285908
## 5181 0.50000000 0.50495050 0.5085082 0.50137712 0.584493014
## 5182 0.65853659 0.40594059 0.4790130 0.51114117 0.330257678
## 5183 0.56097561 0.48019802 0.4846852 0.57084583 0.563935812
## 5184 0.30487805 0.40594059 0.4965967 0.39547788 0.379871226
## 5185 0.56097561 0.31188119 0.4699376 0.57783301 0.506419198
## 5186 0.62195122 0.41089109 0.4659671 0.51485572 0.389736636
## 5187 0.41463415 0.41831683 0.5099263 0.48031142 0.434791183
## 5188 0.71951220 0.42326733 0.5062394 0.51568090 0.576568868
## 5189 0.56097561 0.52722772 0.4829836 0.46509265 0.560418055
## 5190 0.37804878 0.50247525 0.5153148 0.44892727 0.598839021
## 5191 0.58536585 0.37623762 0.4713556 0.51719332 0.741705710
## 5192 0.43902439 0.41584158 0.4636982 0.67530029 0.456000270
## 5193 0.50000000 0.52227723 0.4795803 0.58253082 0.341066136
## 5194 0.64634146 0.38118812 0.4906410 0.49949713 0.504054282
## 5195 0.52439024 0.23267327 0.4863868 0.56010193 0.454061948
## 5196 0.56097561 0.62623762 0.4863868 0.58669118 0.424997487
## 5197 0.62195122 0.50990099 0.4781622 0.55957502 0.465390823
## 5198 0.50000000 0.73514851 0.4668179 0.41245378 0.383281491
## 5199 0.46341463 0.44059406 0.4744753 0.42404146 0.409832843
## 5200 0.62195122 0.43069307 0.4878049 0.50298652 0.708191556
## 5201 0.64634146 0.24752475 0.5334657 0.70277219 0.698653532
## 5202 0.43902439 0.28465347 0.4719229 0.51772271 0.508530934
## 5203 0.21951220 0.74009901 0.4946115 0.36985577 0.398556323
## 5204 0.67073171 0.48762376 0.4775950 0.57272504 0.420525744
## 5205 0.41463415 0.47029703 0.4923426 0.33792330 0.428867784
## 5206 0.37804878 0.29455446 0.5000000 0.56133821 0.674950231
## 5207 0.46341463 0.49257426 0.4914918 0.37001632 0.558639632
## 5208 0.31707317 0.55693069 0.4934770 0.36732610 0.437742604
## 5209 0.53658537 0.28465347 0.4869541 0.47217046 0.615057741
## 5210 0.40243902 0.47277228 0.4980147 0.43210177 0.361929720
## 5211 0.24390244 0.64851485 0.4858196 0.46117561 0.521125034
## 5212 0.68292683 0.67821782 0.4639818 0.57250440 0.339246681
## 5213 0.43902439 0.38861386 0.4702212 0.42896534 0.495978253
## 5214 0.34146341 0.64851485 0.4895065 0.39256700 0.314202962
## 5215 0.26829268 0.34653465 0.5022689 0.56374892 0.629335758
## 5216 0.43902439 0.55693069 0.5022689 0.43881292 0.434002154
## 5217 0.78048780 0.53465347 0.4614294 0.62231802 0.347602418
## 5218 0.65853659 0.41336634 0.4676687 0.64720334 0.270611732
## 5219 0.68292683 0.67574257 0.4736245 0.58421527 0.360049058
## 5220 0.50000000 0.43069307 0.5065230 0.46715611 0.673721416
## 5221 0.50000000 0.38861386 0.4702212 0.58742623 0.588629746
## 5222 0.68292683 0.47029703 0.4724901 0.61039352 0.438016653
## 5223 0.50000000 0.56435644 0.4875213 0.45224439 0.523898006
## 5224 0.73170732 0.52227723 0.4781622 0.48537530 0.434340119
## 5225 0.30487805 0.53960396 0.5014180 0.34459777 0.396289747
## 5226 0.65853659 0.36386139 0.4699376 0.66904882 0.526176529
## 5227 0.37804878 0.57178218 0.5005672 0.46815904 0.408871875
## 5228 0.65853659 0.51485149 0.4716393 0.64346883 0.457932717
## 5229 0.43902439 0.31930693 0.4634146 0.41085349 0.473252564
## 5230 0.53658537 0.37871287 0.4741917 0.55725519 0.376574192
## 5231 0.43902439 0.71287129 0.4923426 0.42199510 0.586457620
## 5232 0.41463415 0.59158416 0.5053885 0.30043996 0.501023683
## 5233 0.65853659 0.67821782 0.4602950 0.57659057 0.220916404
## 5234 0.53658537 0.30445545 0.4795803 0.52233346 0.667950428
```

```
## 5235 0.50000000 0.69306931 0.4775950 0.52730323 0.467931492
## 5236 0.67073171 0.48762376 0.4730573 0.57151980 0.406424920
## 5237 0.74390244 0.31188119 0.4662507 0.58640679 0.548639728
## 5238 0.78048780 0.33910891 0.4574589 0.67259335 0.542551541
## 5239 0.50000000 0.42574257 0.4946115 0.46967066 0.472418556
## 5240 0.46341463 0.20049505 0.4648327 0.65721751 0.306937473
## 5241 0.53658537 0.43316832 0.4705048 0.56400541 0.493168336
## 5242 0.40243902 0.26485149 0.5053885 0.36903406 0.509626147
## 5243 0.56097561 0.50247525 0.4841180 0.49678557 0.399401953
## 5244 0.43902439 0.25000000 0.4594441 0.59414160 0.426602244
## 5245 0.50000000 0.37623762 0.4792967 0.56717959 0.340612576
## 5246 0.28048780 0.44059406 0.4815655 0.43616249 0.402849777
## 5247 0.40243902 0.20544554 0.4821327 0.54719133 0.412246766
## 5248 0.50000000 0.16336634 0.4619966 0.50889163 0.393761587
## 5249 0.68292683 0.30940594 0.4849688 0.63996267 0.558557548
## 5250 0.59756098 0.56188119 0.4815655 0.59558105 0.484973289
## 5251 0.56097561 0.71287129 0.4920590 0.38693866 0.488968025
## 5252 0.56097561 0.52722772 0.4747589 0.63290247 0.480967550
## 5253 0.46341463 0.46287129 0.4648327 0.42993970 0.462228103
## 5254 0.50000000 0.40841584 0.4875213 0.60829572 0.504319545
## 5255 0.25609756 0.56435644 0.4846852 0.32834594 0.457879060
## 5256 0.53658537 0.31188119 0.5073738 0.62577977 0.698487447
## 5257 0.52439024 0.54702970 0.5005672 0.62873529 0.556332834
## 5258 0.56097561 0.56435644 0.4563244 0.55336003 0.449429519
## 5259 0.56097561 0.42326733 0.4886557 0.64775682 0.392265600
## 5260 0.52439024 0.55940594 0.4863868 0.55059194 0.423601400
## 5261 0.68292683 0.39851485 0.4781622 0.66133519 0.444231820
## 5262 0.29268293 0.57673267 0.4895065 0.38531942 0.486063352
## 5263 0.56097561 0.33168317 0.4985820 0.52364448 0.412408308
## 5264 0.25609756 0.41336634 0.4801475 0.28021664 0.425869424
## 5265 0.43902439 0.30198020 0.4821327 0.45264288 0.353706788
## 5266 0.65853659 0.22524752 0.4761770 0.60580550 0.395894626
## 5267 0.50000000 0.51485149 0.4736245 0.57785507 0.326765386
## 5268 0.50000000 0.52970297 0.4841180 0.51402453 0.418794253
## 5269 0.31707317 0.54950495 0.4937606 0.50942666 0.507407875
## 5270 0.46341463 0.41831683 0.4792967 0.57687500 0.432049275
## 5271 0.59756098 0.31435644 0.5119115 0.69044811 0.697516892
## 5272 0.50000000 0.61633663 0.4662507 0.59827103 0.343593274
## 5273 0.47560976 0.43069307 0.4988656 0.45416771 0.418876136
## 5274 0.36585366 0.56188119 0.4920590 0.47422955 0.596606489
## 5275 0.81707317 0.48514851 0.4758934 0.89725031 0.378326400
## 5276 0.50000000 0.37871287 0.4988656 0.39131670 0.638538737
## 5277 0.46341463 0.58663366 0.4878049 0.33410500 0.473128625
## 5278 0.29268293 0.55445545 0.5116279 0.31968422 0.536348286
## 5279 0.62195122 0.45792079 0.4946115 0.67029740 0.555175105
## 5280 0.46341463 0.45049505 0.4895065 0.43141085 0.412611941
## 5281 0.52439024 0.49009901 0.4795803 0.39763936 0.314375862
## 5282 0.71951220 0.36138614 0.4869541 0.50143671 0.504490014
## 5283 0.46341463 0.41089109 0.4844016 0.31813285 0.472370437
## 5284 0.36585366 0.45049505 0.4892229 0.44587725 0.478385458
## 5285 0.84146341 0.42821782 0.4832672 0.75716939 0.478494232
## 5286 0.50000000 0.69306931 0.4917754 0.56077913 0.551873727
## 5287 0.62195122 0.42326733 0.4903573 0.41615933 0.481513081
## 5288 0.46341463 0.35643564 0.4875213 0.40819872 0.493512515
## 5289 0.62195122 0.60643564 0.4815655 0.54890356 0.464272914
## 5290 0.40243902 0.53960396 0.4872377 0.56360152 0.428382498
## 5291 0.24390244 0.44059406 0.4880885 0.21803842 0.465479875
## 5292 0.53658537 0.44554455 0.4798639 0.47817457 0.500383848
```

```
## 5293 0.58536585 0.50990099 0.4792967 0.53198276 0.418836531
## 5294 0.62195122 0.45792079 0.4826999 0.47843296 0.332918994
## 5295 0.64634146 0.42821782 0.5025525 0.47349256 0.515720817
## 5296 0.50000000 0.46287129 0.4821327 0.44890017 0.345974156
## 5297 0.43902439 0.58663366 0.4849688 0.48766076 0.590932463
## 5298 0.53658537 0.24009901 0.4880885 0.47541776 0.479796262
## 5299 0.47560976 0.38861386 0.4551900 0.53419327 0.334425733
## 5300 0.28048780 0.62623762 0.5056721 0.35187769 0.517392843
## 5301 0.64634146 0.55940594 0.4872377 0.53270196 0.401012207
## 5302 0.47560976 0.42821782 0.4818491 0.61625881 0.493870871
## 5303 0.36585366 0.57920792 0.4835508 0.26217459 0.455148679
## 5304 0.37804878 0.43564356 0.4858196 0.49599660 0.339883911
## 5305 0.40243902 0.37623762 0.4897901 0.41257494 0.462571705
## 5306 0.53658537 0.43564356 0.4551900 0.45297487 0.390038980
## 5307 0.37804878 0.49504950 0.5090754 0.49276296 0.535988651
## 5308 0.50000000 0.35891089 0.4900737 0.39607297 0.683704286
## 5309 0.53658537 0.35148515 0.4861032 0.50157728 0.293565279
## 5310 0.68292683 0.30940594 0.4832672 0.63930275 0.558509341
## 5311 0.67073171 0.48019802 0.4920590 0.58030120 0.442620928
## 5312 0.59756098 0.42326733 0.4829836 0.44099831 0.498438845
## 5313 0.43902439 0.53712871 0.5099263 0.48671339 0.460694421
## 5314 0.52439024 0.28465347 0.4756098 0.65439707 0.447918396
## 5315 0.64634146 0.55693069 0.4753261 0.54001744 0.249251256
## 5316 0.50000000 0.39108911 0.4900737 0.55815914 0.520432780
## 5317 0.41463415 0.42574257 0.5025525 0.35231752 0.600409747
## 5318 0.46341463 0.65099010 0.4934770 0.51142367 0.561467857
## 5319 0.43902439 0.44059406 0.4923426 0.34817957 0.510636275
## 5320 0.50000000 0.60148515 0.4926262 0.55484167 0.545493495
## 5321 0.40243902 0.54207921 0.4792967 0.41301307 0.425787287
## 5322 0.41463415 0.22029703 0.4602950 0.43484093 0.451846939
## 5323 0.65853659 0.33168317 0.4787294 0.70152728 0.435286636
## 5324 0.30487805 0.51732673 0.5042541 0.41408703 0.590461381
## 5325 0.37804878 0.72772277 0.4892229 0.47810188 0.612485343
## 5326 0.34146341 0.58910891 0.5141804 0.44203045 0.564609964
## 5327 0.50000000 0.47772277 0.4838344 0.47662529 0.264591343
## 5328 0.59756098 0.45792079 0.4923426 0.58863300 0.586079249
## 5329 0.50000000 0.42821782 0.4943279 0.35962541 0.583720703
## 5330 0.21951220 0.49257426 0.5059558 0.45023431 0.570400672
## 5331 0.64634146 0.41089109 0.4778786 0.53606859 0.351894352
## 5332 0.52439024 0.54702970 0.4923426 0.50061500 0.429377625
## 5333 0.40243902 0.74504950 0.4716393 0.57317107 0.418773431
## 5334 0.46341463 0.54455446 0.4900737 0.37207161 0.545768388
## 5335 0.56097561 0.58415842 0.4875213 0.61247693 0.423404307
## 5336 0.50000000 0.33663366 0.4886557 0.68865788 0.493288309
## 5337 0.56097561 0.40099010 0.4787294 0.49340302 0.437563370
## 5338 0.52439024 0.46039604 0.4756098 0.50813946 0.322363707
## 5339 0.71951220 0.40099010 0.4781622 0.64661458 0.394734835
## 5340 0.62195122 0.32178218 0.4716393 0.55462369 0.439435667
## 5341 0.53658537 0.45792079 0.4906410 0.53109297 0.534799936
## 5342 0.65853659 0.32673267 0.4832672 0.71753740 0.475069075
## 5343 0.37804878 0.50990099 0.4934770 0.49165042 0.636756291
## 5344 0.37804878 0.50247525 0.4815655 0.44314933 0.477343537
## 5345 0.47560976 0.37623762 0.4923426 0.46785693 0.574010419
## 5346 0.37804878 0.50247525 0.4832672 0.41643476 0.513889051
## 5347 0.53658537 0.32425743 0.4855360 0.41460049 0.580786559
## 5348 0.43902439 0.52970297 0.4849688 0.51996327 0.481506863
## 5349 0.50000000 0.53217822 0.4730573 0.71381158 0.532809410
## 5350 0.58536585 0.32920792 0.5161656 0.67125312 0.607037420
```

```
## 5351 0.56097561 0.27722772 0.4869541 0.59186891 0.517445498
## 5352 0.57317073 0.47029703 0.4849688 0.61263167 0.529440529
## 5353 0.62195122 0.68564356 0.4858196 0.61493468 0.393902359
## 5354 0.37804878 0.47029703 0.5136132 0.48759064 0.204154761
## 5355 0.50000000 0.36881188 0.4688032 0.48602222 0.334680371
## 5356 0.43902439 0.41336634 0.4900737 0.41667059 0.509732581
## 5357 0.35365854 0.61386139 0.4858196 0.39709097 0.498320276
## 5358 0.43902439 0.57425743 0.4880885 0.43497658 0.571207931
## 5359 0.46341463 0.66831683 0.5034033 0.55744929 0.498464796
## 5360 0.41463415 0.37871287 0.4920590 0.42093472 0.486591706
## 5361 0.52439024 0.29702970 0.4787294 0.38888138 0.478039638
## 5362 0.41463415 0.48762376 0.4801475 0.40222570 0.476252919
## 5363 0.50000000 0.40099010 0.4948951 0.39939434 0.506162056
## 5364 0.34146341 0.46534653 0.4685196 0.37328630 0.563285415
## 5365 0.34146341 0.41089109 0.5187181 0.47209040 0.586017200
## 5366 0.41463415 0.31683168 0.4954623 0.57425719 0.584830228
## 5367 0.69512195 0.57178218 0.4739081 0.83865703 0.334723408
## 5368 0.34146341 0.34900990 0.4931934 0.41811447 0.643539022
## 5369 0.43902439 0.47772277 0.4722065 0.55402333 0.343160297
## 5370 0.37804878 0.46534653 0.4906410 0.31373998 0.261533035
## 5371 0.56097561 0.66336634 0.4713556 0.72726234 0.438931412
## 5372 0.62195122 0.33663366 0.4855360 0.58930152 0.401514785
## 5373 0.50000000 0.59900990 0.4991492 0.39402822 0.546331348
## 5374 0.53658537 0.40099010 0.4585933 0.67340018 0.328367552
## 5375 0.37804878 0.52970297 0.4985820 0.43198290 0.500568284
## 5376 0.58536585 0.46534653 0.4716393 0.38437400 0.427107306
## 5377 0.28048780 0.52722772 0.5039705 0.36089047 0.516242608
## 5378 0.56097561 0.45049505 0.5107771 0.39778858 0.476185813
## 5379 0.50000000 0.52722772 0.4489507 0.34412730 0.308712261
## 5380 0.21951220 0.56435644 0.4926262 0.22480207 0.489683379
## 5381 0.62195122 0.67821782 0.4909246 0.49356053 0.517742056
## 5382 0.62195122 0.31683168 0.4844016 0.49874399 0.478152127
## 5383 0.50000000 0.29702970 0.4767442 0.63626848 0.405162158
## 5384 0.62195122 0.50495050 0.4682360 0.70493876 0.446281341
## 5385 0.63414634 0.36633663 0.4753261 0.61757041 0.481477821
## 5386 0.52439024 0.44306931 0.4906410 0.32547627 0.462190700
## 5387 0.81707317 0.60643564 0.4716393 0.80419969 0.257701133
## 5388 0.28048780 0.44059406 0.4815655 0.43594699 0.397296197
## 5389 0.71951220 0.43069307 0.4642655 0.60242160 0.499258860
## 5390 0.71951220 0.46782178 0.4863868 0.66202182 0.474174183
## 5391 0.47560976 0.51980198 0.4792967 0.41598105 0.356176375
## 5392 0.62195122 0.47772277 0.4861032 0.73152093 0.478823926
## 5393 0.47560976 0.26980198 0.5079410 0.36084683 0.698021510
## 5394 0.56097561 0.33910891 0.4330686 0.44366308 0.562943452
## 5395 0.62195122 0.47772277 0.4554736 0.60183220 0.522432327
## 5396 0.37804878 0.39851485 0.4937606 0.33943423 0.556478406
## 5397 0.62195122 0.30198020 0.4597277 0.55898319 0.336052840
## 5398 0.52439024 0.63366337 0.4926262 0.39930713 0.543934594
## 5399 0.43902439 0.41584158 0.4982984 0.45129937 0.395720952
## 5400 0.68292683 0.38366337 0.4824163 0.57999683 0.610999269
## 5401 0.56097561 0.68811881 0.4228588 0.39622101 0.127001943
## 5402 0.28048780 0.57178218 0.4954623 0.32272522 0.471604203
## 5403 0.53658537 0.64356436 0.3777652 0.48064827 0.752374078
## 5404 0.52439024 0.43069307 0.4985820 0.45929361 0.569526310
## 5405 0.69512195 0.59653465 0.4713556 0.57973386 0.250845779
## 5406 0.64634146 0.36633663 0.4656835 0.64590514 0.424443462
## 5407 0.40243902 0.51485149 0.4844016 0.37155350 0.532887033
## 5408 0.52439024 0.32920792 0.4900737 0.38645461 0.403102759
```

456

```
## 5409 0.37804878 0.31188119 0.5241066 0.54470466 0.644995510
## 5410 0.50000000 0.27475248 0.4682360 0.54654252 0.404963650
## 5411 0.50000000 0.43069307 0.4773114 0.48588560 0.363246182
## 5412 0.40243902 0.54455446 0.4937606 0.21079495 0.350994724
## 5413 0.54878049 0.39108911 0.4713556 0.56827011 0.426672352
## 5414 0.28048780 0.52722772 0.4815655 0.35183653 0.564490987
## 5415 0.40243902 0.33168317 0.4931934 0.43569745 0.445457937
## 5416 0.56097561 0.33415842 0.4739081 0.69249025 0.606427187
## 5417 0.40243902 0.45544554 0.4841180 0.45211979 0.419072882
## 5418 0.56097561 0.32920792 0.4855360 0.52087110 0.592610211
## 5419 0.40243902 0.54455446 0.5241066 0.37278915 0.660656673
## 5420 0.59756098 0.32178218 0.5192853 0.54351924 0.768004033
## 5421 0.37804878 0.50990099 0.4914918 0.41690363 0.355499959
## 5422 0.59756098 0.32673267 0.4659671 0.65818599 0.510313876
## 5423 0.62195122 0.58415842 0.4662507 0.63579753 0.401677650
## 5424 0.64634146 0.55198020 0.5082246 0.54398724 0.544842382
## 5425 0.40243902 0.41584158 0.4878049 0.45768439 0.345011552
## 5426 0.47560976 0.30940594 0.4917754 0.51139498 0.433564623
## 5427 0.75609756 0.34900990 0.4719229 0.75516389 0.522963288
## 5428 0.37804878 0.60643564 0.5127623 0.44806778 0.550877384
## 5429 0.52439024 0.20792079 0.5204197 0.57050208 0.504550640
## 5430 0.37804878 0.48762376 0.4784458 0.23506280 0.430181533
## 5431 0.50000000 0.33663366 0.4753261 0.39316403 0.501899940
## 5432 0.56097561 0.41831683 0.4801475 0.58268484 0.427666389
## 5433 0.84146341 0.36386139 0.4934770 0.70154928 0.538932130
## 5434 0.71951220 0.28217822 0.4546228 0.59660207 0.485820842
## 5435 0.43902439 0.73514851 0.4920590 0.54488159 0.403996594
## 5436 0.52439024 0.59158416 0.4897901 0.47100155 0.619892366
## 5437 0.62195122 0.42326733 0.4424277 0.51505367 0.476869837
## 5438 0.37804878 0.70792079 0.4855360 0.44562646 0.525042695
## 5439 0.37804878 0.38118812 0.4724901 0.45550125 0.600099769
## 5440 0.53658537 0.48762376 0.5014180 0.55161533 0.650934831
## 5441 0.56097561 0.44306931 0.4679524 0.59787688 0.400541146
## 5442 0.56097561 0.42574257 0.5068066 0.48981337 0.450811850
## 5443 0.41463415 0.46287129 0.4809983 0.45496481 0.415998725
## 5444 0.37804878 0.48762376 0.4628474 0.51217272 0.478902470
## 5445 0.29268293 0.49257426 0.5051049 0.37120649 0.354210054
## 5446 0.37804878 0.50000000 0.4676687 0.44242788 0.292328164
## 5447 0.43902439 0.60148515 0.5042541 0.46483646 0.515012679
## 5448 0.37804878 0.51237624 0.5085082 0.39010455 0.732418127
## 5449 0.50000000 0.56930693 0.4784458 0.56005481 0.592788578
## 5450 0.62195122 0.45544554 0.4790130 0.67431897 0.379488934
## 5451 0.47560976 0.43316832 0.4585933 0.52292577 0.422585132
## 5452 0.35365854 0.68811881 0.4410096 0.31155474 0.288616179
## 5453 0.31707317 0.71039604 0.5039705 0.27820252 0.564081349
## 5454 0.42682927 0.40594059 0.5059558 0.43793081 0.525079924
## 5455 0.58536585 0.40841584 0.4529212 0.49773151 0.393207464
## 5456 0.40243902 0.35891089 0.4869541 0.24808655 0.474863200
## 5457 0.43902439 0.62376238 0.5107771 0.54522853 0.563856649
## 5458 0.36585366 0.69059406 0.5170164 0.25497355 0.605192802
## 5459 0.47560976 0.49752475 0.5164492 0.54219061 0.519597376
## 5460 0.46341463 0.51732673 0.5309132 0.51246164 0.397833249
## 5461 0.50000000 0.48762376 0.4741917 0.55379761 0.516853308
## 5462 0.47560976 0.57178218 0.4722065 0.67384763 0.318984702
## 5463 0.37804878 0.48762376 0.4679524 0.54548735 0.370854611
## 5464 0.50000000 0.56930693 0.4858196 0.64050013 0.423337152
## 5465 0.71951220 0.33168317 0.4934770 0.52813027 0.693278110
## 5466 0.24390244 0.55940594 0.4943279 0.15929399 0.452412999
```

```
## 5467 0.34146341 0.52227723 0.5056721 0.27678317 0.504604727
## 5468 0.68292683 0.33415842 0.5059558 0.63775535 0.496676717
## 5469 0.68292683 0.55693069 0.4702212 0.54642295 0.358724861
## 5470 0.40243902 0.59405941 0.5178673 0.45511057 0.350523859
## 5471 0.43902439 0.71782178 0.4792967 0.66658585 0.446637828
## 5472 0.37804878 0.36881188 0.4826999 0.46589777 0.483045845
## 5473 0.53658537 0.54950495 0.4920590 0.46903577 0.484871022
## 5474 0.43902439 0.49257426 0.5008508 0.43281215 0.429898170
## 5475 0.37804878 0.54950495 0.5164492 0.47415694 0.391578483
## 5476 0.53658537 0.41089109 0.4923426 0.43215817 0.740437005
## 5477 0.56097561 0.54455446 0.4875213 0.61631099 0.449877212
## 5478 0.52439024 0.29207921 0.5507657 0.51272749 0.767559374
## 5479 0.47560976 0.51980198 0.4792967 0.41227161 0.351168159
## 5480 0.47560976 0.60891089 0.4929098 0.59430178 0.582093463
## 5481 0.63414634 0.19554455 0.4574589 0.76558762 0.428741547
## 5482 0.25609756 0.43564356 0.4866704 0.38586744 0.512188688
## 5483 0.52439024 0.40841584 0.4909246 0.40591669 0.493563781
## 5484 0.46341463 0.52227723 0.4597277 0.46732174 0.419530431
## 5485 0.15853659 0.50495050 0.4880885 0.24812620 0.463468319
## 5486 0.46341463 0.55445545 0.4197391 0.38611449 0.265551792
## 5487 0.56097561 0.49504950 0.5192853 0.57946709 0.625387276
## 5488 0.37804878 0.50000000 0.5008508 0.45175115 0.588336913
## 5489 0.62195122 0.58415842 0.4747589 0.74058534 0.244227873
## 5490 0.46341463 0.37871287 0.4841180 0.54598785 0.495362870
## 5491 0.53658537 0.33415842 0.4758934 0.44493210 0.365872580
## 5492 0.34146341 0.47029703 0.4866704 0.51467033 0.461264984
## 5493 0.57317073 0.37871287 0.4886557 0.70095139 0.510105176
## 5494 0.59756098 0.48762376 0.4741917 0.58212682 0.323170253
## 5495 0.52439024 0.45049505 0.4821327 0.50967464 0.464951744
## 5496 0.62195122 0.36138614 0.4878049 0.56669268 0.497154206
## 5497 0.37804878 0.61633663 0.4892229 0.60027780 0.422522759
## 5498 0.43902439 0.52227723 0.4900737 0.56144784 0.466045707
## 5499 0.36585366 0.56930693 0.4835508 0.50789153 0.391074550
## 5500 0.40243902 0.50000000 0.4826999 0.52460359 0.449990215
## 5501 0.56097561 0.41089109 0.4863868 0.60362499 0.482673717
## 5502 0.62195122 0.43564356 0.4869541 0.59023814 0.439775482
## 5503 0.42682927 0.42574257 0.4844016 0.50120208 0.477650158
## 5504 0.34146341 0.59653465 0.4861032 0.46626612 0.431250057
## 5505 0.47560976 0.46782178 0.4846852 0.42190917 0.491018294
## 5506 0.62195122 0.26980198 0.5110607 0.63335547 0.640659359
## 5507 0.59756098 0.39356436 0.5002836 0.46304420 0.458817347
## 5508 0.43902439 0.39108911 0.4889393 0.46149387 0.455572879
## 5509 0.34146341 0.39108911 0.4770278 0.42439832 0.369895870
## 5510 0.59756098 0.43564356 0.4758934 0.74754614 0.396770122
## 5511 0.35365854 0.62128713 0.4463982 0.49550963 0.565523424
## 5512 0.56097561 0.47772277 0.4965967 0.57255339 0.560196205
## 5513 0.41463415 0.44801980 0.5090754 0.59156805 0.565376368
## 5514 0.62195122 0.62128713 0.4892229 0.53346171 0.278507031
## 5515 0.19512195 0.60643564 0.5011344 0.32526928 0.353019791
## 5516 0.42682927 0.60396040 0.4730573 0.52477122 0.495411876
## 5517 0.63414634 0.25000000 0.4832672 0.52908358 0.747093344
## 5518 0.52439024 0.49257426 0.4903573 0.47839302 0.441077399
## 5519 0.47560976 0.49504950 0.4886557 0.54475355 0.488504925
## 5520 0.71951220 0.64851485 0.4980147 0.51476423 0.420781361
## 5521 0.71951220 0.64356436 0.5039705 0.88908435 0.503040914
## 5522 0.43902439 0.57673267 0.4914918 0.48188168 0.393885940
## 5523 0.31707317 0.51485149 0.4801475 0.18098251 0.458911117
## 5524 0.52439024 0.57425743 0.4960295 0.45409058 0.778989635
```

```
## 5525 0.37804878 0.50990099 0.4656835 0.39392596 0.439891108
## 5526 0.56097561 0.37376238 0.4619966 0.46978870 0.331805805
## 5527 0.43902439 0.50495050 0.4858196 0.47816265 0.377443744
## 5528 0.46341463 0.58168317 0.4912082 0.52783751 0.444917153
## 5529 0.41463415 0.56188119 0.4948951 0.48237265 0.210789051
## 5530 0.71951220 0.32920792 0.4946115 0.52838827 0.699144685
## 5531 0.31707317 0.41336634 0.4886557 0.53371956 0.648080846
## 5532 0.65853659 0.52970297 0.4651163 0.64934282 0.382345960
## 5533 0.43902439 0.39603960 0.4645491 0.45878528 0.322254488
## 5534 0.86585366 0.52475248 0.4971639 0.91093068 0.422485769
## 5535 0.31707317 0.43564356 0.4733409 0.40888952 0.634632617
## 5536 0.50000000 0.47772277 0.4844016 0.48757791 0.426893033
## 5537 0.62195122 0.39356436 0.4818491 0.69794427 0.416781237
## 5538 0.68292683 0.39603960 0.4926262 0.54801403 0.608448509
## 5539 0.56097561 0.54702970 0.4804311 0.48921765 0.673503824
## 5540 0.62195122 0.37376238 0.4736245 0.70367945 0.398809380
## 5541 0.56097561 0.44306931 0.4963131 0.49866555 0.606038834
## 5542 0.46341463 0.52970297 0.4807147 0.39782726 0.320236223
## 5543 0.68292683 0.49009901 0.4727737 0.44452797 0.421170543
## 5544 0.47560976 0.44059406 0.4792967 0.65515429 0.492285308
## 5545 0.43902439 0.49009901 0.4756098 0.51596333 0.652196417
## 5546 0.35365854 0.51237624 0.4818491 0.38424482 0.508262891
## 5547 0.41463415 0.64356436 0.4807147 0.50547075 0.347253314
## 5548 0.41463415 0.42326733 0.4739081 0.43661377 0.596027242
## 5549 0.35365854 0.52227723 0.4875213 0.46726252 0.493553251
## 5550 0.46341463 0.61633663 0.4685196 0.54847413 0.448780827
## 5551 0.40243902 0.35643564 0.4977311 0.45498904 0.356220308
## 5552 0.46341463 0.31435644 0.4948951 0.38405525 0.381290223
## 5553 0.59756098 0.46039604 0.4943279 0.64145334 0.496678756
## 5554 0.62195122 0.47524752 0.4824163 0.56263365 0.373264359
## 5555 0.50000000 0.47029703 0.5036869 0.44850041 0.461594069
## 5556 0.47560976 0.44059406 0.4895065 0.40788483 0.367154440
## 5557 0.59756098 0.45297030 0.4863868 0.63694799 0.305665660
## 5558 0.67073171 0.62623762 0.4917754 0.86171753 0.437693493
## 5559 0.43902439 0.70049505 0.4914918 0.46467217 0.669045802
## 5560 0.37804878 0.69306931 0.4611458 0.42319716 0.316970442
## 5561 0.37804878 0.37871287 0.4756098 0.47240446 0.444831926
## 5562 0.56097561 0.36138614 0.4347703 0.50068067 0.417597287
## 5563 0.46341463 0.49257426 0.4611458 0.52959254 0.408774667
## 5564 0.56097561 0.60891089 0.4566081 0.57598854 0.515337928
## 5565 0.52439024 0.32178218 0.5036869 0.42786579 0.361027770
## 5566 0.43902439 0.47524752 0.4946115 0.45036232 0.533578551
## 5567 0.43902439 0.34405941 0.4736245 0.64868157 0.485432692
## 5568 0.50000000 0.45297030 0.4892229 0.50597318 0.589693552
## 5569 0.46341463 0.61386139 0.4767442 0.53699986 0.486282281
## 5570 0.50000000 0.40346535 0.5048213 0.60995339 0.519381349
## 5571 0.62195122 0.33663366 0.4858196 0.60637426 0.335004922
## 5572 0.35365854 0.17574257 0.4668179 0.43239730 0.490755001
## 5573 0.62195122 0.51485149 0.4940442 0.52099075 0.475380597
## 5574 0.28048780 0.65346535 0.5036869 0.42685939 0.561713789
## 5575 0.59756098 0.23267327 0.4523539 0.59161771 0.535737894
## 5576 0.46341463 0.58910891 0.4733409 0.49520952 0.377817489
## 5577 0.59756098 0.48267327 0.4892229 0.45664937 0.666211742
## 5578 0.68292683 0.33663366 0.5113443 0.63972789 0.480237988
## 5579 0.62195122 0.42574257 0.4926262 0.59685215 0.608300912
## 5580 0.50000000 0.42079208 0.4929098 0.40123150 0.380786163
## 5581 0.63414634 0.23514851 0.4787294 0.81668600 0.530573278
## 5582 0.50000000 0.68069307 0.4929098 0.50638210 0.484471676
```

```
## 5583 0.40243902 0.62376238 0.4775950 0.51090706 0.508951975
## 5584 0.40243902 0.62128713 0.4537720 0.33509551 0.272183277
## 5585 0.53658537 0.45544554 0.4880885 0.44298445 0.481532325
## 5586 0.62195122 0.47524752 0.4934770 0.59429909 0.613818219
## 5587 0.50000000 0.34653465 0.4784458 0.56344514 0.487238983
## 5588 0.58536585 0.60891089 0.4835508 0.49547900 0.382199837
## 5589 0.47560976 0.50495050 0.4866704 0.48102846 0.470068479
## 5590 0.50000000 0.41089109 0.4787294 0.38327904 0.324815449
## 5591 0.43902439 0.29702970 0.4509359 0.48919366 0.449183357
## 5592 0.71951220 0.67079208 0.5068066 0.76875773 0.492289499
## 5593 0.63414634 0.40594059 0.4875213 0.53367415 0.507436715
## 5594 0.46341463 0.47277228 0.4897901 0.59484227 0.421959328
## 5595 0.53658537 0.58415842 0.4841180 0.61356487 0.391944764
## 5596 0.40243902 0.33168317 0.4730573 0.62088001 0.354551894
## 5597 0.46341463 0.48019802 0.4826999 0.56326117 0.464498478
## 5598 0.64634146 0.55693069 0.4801475 0.53581644 0.242597824
## 5599 0.56097561 0.27475248 0.4543392 0.51077191 0.526613591
## 5600 0.53658537 0.49752475 0.4798639 0.54597529 0.453580867
## 5601 0.46341463 0.50247525 0.4719229 0.50635194 0.358489486
## 5602 0.63414634 0.16831683 0.4787294 0.79304996 0.452791141
## 5603 0.43902439 0.36386139 0.4872377 0.42678856 0.375446433
## 5604 0.46341463 0.39851485 0.5005672 0.37607865 0.555278345
## 5605 0.34146341 0.49504950 0.4926262 0.35107614 0.524370866
## 5606 0.40243902 0.71287129 0.5073738 0.52772855 0.609025073
## 5607 0.50000000 0.51485149 0.4713556 0.51238473 0.509340484
## 5608 0.37804878 0.48019802 0.4713556 0.52863508 0.520694101
## 5609 0.50000000 0.50247525 0.4744753 0.60034890 0.532906811
## 5610 0.53658537 0.28960396 0.4994328 0.60753378 0.588168161
## 5611 0.37804878 0.56435644 0.4844016 0.34475314 0.537367523
## 5612 0.50000000 0.59900990 0.4960295 0.51079632 0.464289347
## 5613 0.56097561 0.41584158 0.4829836 0.44405797 0.330199043
## 5614 0.56097561 0.48514851 0.4597277 0.48170251 0.471653867
## 5615 0.43902439 0.20544554 0.4920590 0.37474627 0.465624164
## 5616 0.53658537 0.36633663 0.4804311 0.59806737 0.485340894
## 5617 0.43902439 0.50000000 0.4685196 0.47606321 0.337610364
## 5618 0.50000000 0.55693069 0.4722065 0.50730445 0.245461855
## 5619 0.43902439 0.57425743 0.4988656 0.46396589 0.478684079
## 5620 0.56097561 0.47772277 0.4676687 0.53430423 0.454933190
## 5621 0.53658537 0.65346535 0.4900737 0.43210726 0.459154869
## 5622 0.56097561 0.42079208 0.4895065 0.52105551 0.600040437
## 5623 0.43902439 0.39851485 0.4472490 0.59493152 0.379874798
## 5624 0.53658537 0.34653465 0.4804311 0.68287491 0.495355904
## 5625 0.25609756 0.56435644 0.4829836 0.33030406 0.460455375
## 5626 0.56097561 0.60396040 0.4997164 0.56879072 0.491923135
## 5627 0.52439024 0.50000000 0.4750425 0.37125341 0.392728384
## 5628 0.59756098 0.37623762 0.4855360 0.68389592 0.607763143
## 5629 0.47560976 0.27722772 0.4546228 0.45862409 0.553493580
## 5630 0.40243902 0.42079208 0.4948951 0.32229010 0.474600222
## 5631 0.63414634 0.42326733 0.4707884 0.63292063 0.439651385
## 5632 0.43902439 0.61633663 0.4951787 0.52888034 0.480378188
## 5633 0.58536585 0.41336634 0.4815655 0.52346809 0.455580641
## 5634 0.69512195 0.30693069 0.4869541 0.71204772 0.523343664
## 5635 0.43902439 0.53712871 0.4912082 0.34173373 0.496660277
## 5636 0.52439024 0.53217822 0.5053885 0.47857765 0.516214825
## 5637 0.37804878 0.61881188 0.4863868 0.50024925 0.465859955
## 5638 0.28048780 0.36138614 0.4883721 0.36136526 0.538350192
## 5639 0.52439024 0.55693069 0.4929098 0.48084967 0.390130105
## 5640 0.57317073 0.37871287 0.4886557 0.69661178 0.509726966
```

```
## 5641 0.50000000 0.55693069 0.4917754 0.52744181 0.577772557
## 5642 0.56097561 0.57920792 0.4934770 0.62819950 0.468555568
## 5643 0.50000000 0.51980198 0.4866704 0.64651079 0.453386254
## 5644 0.71951220 0.44306931 0.4846852 0.83594557 0.455930181
## 5645 0.56097561 0.37871287 0.4838344 0.59129159 0.385795605
## 5646 0.43902439 0.53712871 0.4770278 0.60448970 0.420061411
## 5647 0.59756098 0.31188119 0.4693704 0.56183171 0.245035788
## 5648 0.47560976 0.50495050 0.4866704 0.57253979 0.385626049
## 5649 0.37804878 0.44801980 0.4943279 0.43873954 0.347146380
## 5650 0.46341463 0.69306931 0.4801475 0.46356086 0.450085881
## 5651 0.59756098 0.50990099 0.4883721 0.48124697 0.575851638
## 5652 0.50000000 0.55693069 0.4900737 0.52666801 0.503490089
## 5653 0.56097561 0.49504950 0.4988656 0.48385384 0.567746546
## 5654 0.56097561 0.52227723 0.4671015 0.45119035 0.401679101
## 5655 0.28048780 0.58910891 0.4849688 0.30994613 0.416975186
## 5656 0.63414634 0.34158416 0.4716393 0.51254933 0.658002036
## 5657 0.43902439 0.41831683 0.4878049 0.38428881 0.582666062
## 5658 0.47560976 0.60148515 0.4982984 0.22176532 0.489127265
## 5659 0.46341463 0.37871287 0.4588769 0.48066756 0.411097174
## 5660 0.62195122 0.37871287 0.4858196 0.61297273 0.459778298
## 5661 0.52439024 0.49257426 0.4914918 0.55334611 0.413715065
## 5662 0.43902439 0.28465347 0.4824163 0.53608336 0.322264868
## 5663 0.56097561 0.25742574 0.4951787 0.49138262 0.578423136
## 5664 0.46341463 0.41584158 0.4920590 0.28761968 0.392339428
## 5665 0.59756098 0.33415842 0.4897901 0.62457672 0.453986250
## 5666 0.43902439 0.41831683 0.5025525 0.40686850 0.666811512
## 5667 0.56097561 0.43069307 0.4929098 0.49228997 0.396872570
## 5668 0.59756098 0.48762376 0.4801475 0.58673158 0.361964386
## 5669 0.53658537 0.47524752 0.4889393 0.58419352 0.674471994
## 5670 0.46341463 0.37376238 0.4858196 0.59860969 0.517091622
## 5671 0.50000000 0.28217822 0.4773114 0.54096526 0.408587907
## 5672 0.53658537 0.49504950 0.4778786 0.65635147 0.440288476
## 5673 0.40243902 0.56683168 0.4722065 0.56922451 0.258654726
## 5674 0.34146341 0.60643564 0.4914918 0.29408710 0.484583823
## 5675 0.74390244 0.52475248 0.4872377 0.73572239 0.527324056
## 5676 0.42682927 0.50742574 0.4906410 0.41339452 0.458851687
## 5677 0.65853659 0.42821782 0.4917754 0.53545555 0.500332865
## 5678 0.40243902 0.36633663 0.5121951 0.42902181 0.317913830
## 5679 0.37804878 0.41584158 0.4824163 0.38959387 0.359946965
## 5680 0.50000000 0.56683168 0.4699376 0.46733514 0.401897125
## 5681 0.52439024 0.55693069 0.4807147 0.53001038 0.369868260
## 5682 0.62195122 0.34900990 0.4832672 0.54672520 0.318262773
## 5683 0.62195122 0.50495050 0.4804311 0.48696578 0.432517198
## 5684 0.75609756 0.30940594 0.4770278 0.82879052 0.419469796
## 5685 0.43902439 0.46534653 0.4937606 0.42308197 0.529185337
## 5686 0.52439024 0.41831683 0.4895065 0.59470665 0.588794132
## 5687 0.40243902 0.31188119 0.4818491 0.50583625 0.324652331
## 5688 0.50000000 0.32673267 0.4775950 0.33748323 0.382844333
## 5689 0.34146341 0.64356436 0.4809983 0.53151883 0.361954733
## 5690 0.43902439 0.67574257 0.4960295 0.40941096 0.529416507
## 5691 0.59756098 0.45792079 0.4855360 0.44102047 0.465451725
## 5692 0.50000000 0.24009901 0.4798639 0.44524220 0.356718175
## 5693 0.56097561 0.32673267 0.4858196 0.49654119 0.558918631
## 5694 0.59756098 0.50990099 0.4866704 0.58420483 0.448569041
## 5695 0.52439024 0.47029703 0.4855360 0.58066790 0.455521924
## 5696 0.34146341 0.45544554 0.4846852 0.42106791 0.472382390
## 5697 0.80487805 0.63118812 0.4997164 0.89165741 0.589526656
## 5698 0.50000000 0.42079208 0.5011344 0.49368356 0.436085002
```

461

```
## 5699 0.53658537 0.47524752 0.4665343 0.64469663 0.412758453
## 5700 0.54878049 0.50742574 0.4866704 0.44459627 0.495352976
## 5701 0.31707317 0.50742574 0.4617130 0.42119656 0.436144344
## 5702 0.65853659 0.52722772 0.4719229 0.42307077 0.343017909
## 5703 0.31707317 0.44554455 0.4835508 0.22134960 0.361825238
## 5704 0.43902439 0.47277228 0.5005672 0.48392085 0.389603176
## 5705 0.53658537 0.38861386 0.4895065 0.47121496 0.371172692
## 5706 0.47560976 0.66584158 0.4792967 0.44373914 0.376729704
## 5707 0.46341463 0.33168317 0.4886557 0.44230109 0.641152895
## 5708 0.65853659 0.28465347 0.4750425 0.62534166 0.618752994
## 5709 0.34146341 0.63861386 0.4965967 0.42644310 0.711104668
## 5710 0.56097561 0.58663366 0.4770278 0.54427003 0.314656887
## 5711 0.47560976 0.31435644 0.4880885 0.53127922 0.542498809
## 5712 0.63414634 0.47029703 0.4914918 0.55810549 0.536585893
## 5713 0.78048780 0.33910891 0.4671015 0.62552027 0.385465896
## 5714 0.43902439 0.62376238 0.4767442 0.36488511 0.369400045
## 5715 0.40243902 0.47277228 0.4903573 0.44287495 0.512613060
## 5716 0.68292683 0.60148515 0.4846852 0.50102673 0.627597838
## 5717 0.53658537 0.47029703 0.4889393 0.45760047 0.402296766
## 5718 0.41463415 0.53960396 0.4770278 0.48192030 0.412513139
## 5719 0.43902439 0.51980198 0.4446965 0.50543800 0.504505017
## 5720 0.46341463 0.29207921 0.4758934 0.58997341 0.419098820
## 5721 0.62195122 0.41336634 0.4980147 0.59374974 0.394442896
## 5722 0.37804878 0.55445545 0.6043676 0.33545107 0.248976569
## 5723 0.40243902 0.34653465 0.4583097 0.60720880 0.465055381
## 5724 0.62195122 0.45049505 0.4710720 0.69795434 0.419502066
## 5725 0.47560976 0.49752475 0.5144640 0.52589370 0.562939740
## 5726 0.86585366 0.57178218 0.4948951 0.91584614 0.452785926
## 5727 0.56097561 0.36138614 0.5017016 0.37583975 0.373002760
## 5728 0.68292683 0.36386139 0.4727737 0.65367828 0.433771095
## 5729 0.68292683 0.63366337 0.4662507 0.44132477 0.207439683
## 5730 0.62195122 0.41831683 0.4977311 0.74403685 0.528356828
## 5731 0.52439024 0.50742574 0.4912082 0.39158930 0.439173068
## 5732 0.37804878 0.67821782 0.4764606 0.35451888 0.373854820
## 5733 0.59756098 0.49504950 0.4980147 0.52206576 0.639402722
## 5734 0.56097561 0.45792079 0.4673851 0.42856799 0.330688884
## 5735 0.43902439 0.49752475 0.4710720 0.56397961 0.390366612
## 5736 0.40243902 0.51980198 0.5087918 0.43114022 0.526475778
## 5737 0.65853659 0.70297030 0.4713556 0.56147969 0.515109562
## 5738 0.50000000 0.38118812 0.5000000 0.60827004 0.476885126
## 5739 0.57317073 0.52970297 0.4622802 0.57996954 0.431580001
## 5740 0.37804878 0.57178218 0.4427113 0.43182865 0.301609829
## 5741 0.74390244 0.58663366 0.4892229 0.85663265 0.452739179
## 5742 0.43902439 0.48514851 0.4611458 0.60453831 0.461406257
## 5743 0.54878049 0.39108911 0.4719229 0.60070454 0.415958234
## 5744 0.59756098 0.59158416 0.4676687 0.52388946 0.337899948
## 5745 0.37804878 0.50247525 0.4855360 0.18898061 0.446371401
## 5746 0.36585366 0.50495050 0.4920590 0.44847777 0.432161962
## 5747 0.53658537 0.35643564 0.4597277 0.55711377 0.336427956
## 5748 0.43902439 0.25742574 0.4994328 0.52869714 0.370090729
## 5749 0.37804878 0.36386139 0.4960295 0.48800386 0.576540012
## 5750 0.34146341 0.54950495 0.4912082 0.40357330 0.502379630
## 5751 0.25609756 0.24752475 0.4600113 0.19925915 0.492332889
## 5752 0.56097561 0.47029703 0.4778786 0.58310345 0.414967494
## 5753 0.43902439 0.60148515 0.5059558 0.67801099 0.559737702
## 5754 0.43902439 0.47029703 0.5099263 0.52333224 0.548872736
## 5755 0.34146341 0.47029703 0.4869541 0.51415445 0.464438670
## 5756 0.46341463 0.52475248 0.4679524 0.47927687 0.434699572
```

462

```
## 5757 0.52439024 0.56435644 0.4807147 0.45065174 0.407979936
## 5758 0.40243902 0.47772277 0.4855360 0.56374248 0.480600870
## 5759 0.31707317 0.51732673 0.5028361 0.49745223 0.503503336
## 5760 0.58536585 0.43811881 0.4571753 0.54691697 0.439842009
## 5761 0.56097561 0.56188119 0.4982984 0.62597772 0.448696582
## 5762 0.62195122 0.31930693 0.4818491 0.51002610 0.480647482
## 5763 0.50000000 0.60396040 0.5275099 0.34796961 0.398688204
## 5764 0.56097561 0.39108911 0.4622802 0.39828157 0.331230757
## 5765 0.56097561 0.43811881 0.5113443 0.53285206 0.556373367
## 5766 0.59756098 0.43069307 0.4597277 0.53126141 0.667799941
## 5767 0.40243902 0.44801980 0.4897901 0.42042480 0.583146600
## 5768 0.53658537 0.27970297 0.4716393 0.50995811 0.442917630
## 5769 0.53658537 0.64603960 0.5048213 0.28969751 0.440902463
## 5770 0.62195122 0.40099010 0.4602950 0.53903585 0.514079378
## 5771 0.46341463 0.48019802 0.4824163 0.56306501 0.464800881
## 5772 0.84146341 0.51732673 0.4758934 0.87041112 0.308531610
## 5773 0.50000000 0.58910891 0.4838344 0.41897188 0.357224532
## 5774 0.50000000 0.50990099 0.4809983 0.56864336 0.468956258
## 5775 0.53658537 0.35148515 0.4707884 0.59024252 0.517063360
## 5776 0.34146341 0.61138614 0.4733409 0.50630033 0.382721857
## 5777 0.68292683 0.41584158 0.4883721 0.58417838 0.602895109
## 5778 0.46341463 0.56188119 0.4798639 0.45649037 0.506009523
## 5779 0.62195122 0.34653465 0.4824163 0.54654703 0.317482701
## 5780 0.34146341 0.33168317 0.4733409 0.33559168 0.438823111
## 5781 0.58536585 0.43564356 0.4869541 0.47319402 0.466971736
## 5782 0.81707317 0.60643564 0.4756098 0.81682459 0.247086410
## 5783 0.52439024 0.48762376 0.4909246 0.53367353 0.398683074
## 5784 0.40243902 0.55198020 0.4832672 0.37154678 0.469511296
## 5785 0.68292683 0.37376238 0.4580261 0.47377411 0.412847802
## 5786 0.62195122 0.53217822 0.4863868 0.37866842 0.424105406
## 5787 0.46341463 0.23019802 0.4872377 0.47993898 0.670170065
## 5788 0.59756098 0.40099010 0.5150312 0.62552467 0.573351808
## 5789 0.53658537 0.65346535 0.4900737 0.43240736 0.464824372
## 5790 0.56097561 0.30445545 0.4897901 0.63612577 0.527513987
## 5791 0.41463415 0.47029703 0.5085082 0.49809829 0.594671660
## 5792 0.62195122 0.38613861 0.4790130 0.60093665 0.465209942
## 5793 0.43902439 0.33168317 0.4809983 0.55143112 0.236133884
## 5794 0.57317073 0.33910891 0.4920590 0.58919234 0.700736198
## 5795 0.56097561 0.37376238 0.4781622 0.61872343 0.409061250
## 5796 0.50000000 0.24009901 0.4954623 0.47112974 0.465204458
## 5797 0.43902439 0.33910891 0.4937606 0.44401555 0.547140006
## 5798 0.37804878 0.72277228 0.4792967 0.46995756 0.533556538
## 5799 0.62195122 0.62376238 0.4693704 0.48226217 0.284841619
## 5800 0.46341463 0.51237624 0.5090754 0.49463699 0.390415762
## 5801 0.43902439 0.48762376 0.4750425 0.47671757 0.431413429
## 5802 0.45121951 0.51237624 0.4787294 0.48952222 0.362894181
## 5803 0.71951220 0.34900990 0.4841180 0.69862550 0.525171347
## 5804 0.56097561 0.30693069 0.4912082 0.51653997 0.501103980
## 5805 0.34146341 0.58910891 0.4982984 0.36208071 0.509000329
## 5806 0.46341463 0.62623762 0.4758934 0.54116144 0.346397909
## 5807 0.42682927 0.64108911 0.4912082 0.42286085 0.510094208
## 5808 0.58536585 0.45297030 0.5019853 0.58512696 0.558942398
## 5809 0.46341463 0.70049505 0.4781622 0.51969182 0.507927367
## 5810 0.43902439 0.60148515 0.4602950 0.46382750 0.388208341
## 5811 0.50000000 0.58663366 0.5238230 0.45161672 0.554899970
## 5812 0.60975610 0.44801980 0.4818491 0.67190440 0.463172831
## 5813 0.40243902 0.55198020 0.4991492 0.40908903 0.571486937
## 5814 0.63414634 0.27475248 0.4980147 0.49526735 0.759880323
```

```
## 5815 0.53658537 0.23762376 0.4741917 0.51517469 0.396390785
## 5816 0.47560976 0.56683168 0.4892229 0.46303842 0.497499028
## 5817 0.56097561 0.52722772 0.4940442 0.57156479 0.520505623
## 5818 0.50000000 0.45544554 0.5136132 0.44233787 0.724009003
## 5819 0.34146341 0.52475248 0.4866704 0.43662277 0.480769801
## 5820 0.34146341 0.64603960 0.4832672 0.49810747 0.399898376
## 5821 0.50000000 0.48019802 0.4818491 0.44058080 0.411985192
## 5822 0.30487805 0.54950495 0.4841180 0.34019963 0.378536774
## 5823 0.68292683 0.50742574 0.4863868 0.61741612 0.469004613
## 5824 0.50000000 0.33663366 0.4872377 0.48395280 0.644129510
## 5825 0.52439024 0.62128713 0.4801475 0.59863391 0.606254915
## 5826 0.56097561 0.22029703 0.4923426 0.52066686 0.535590385
## 5827 0.62195122 0.49752475 0.5014180 0.50682787 0.421324111
## 5828 0.59756098 0.36633663 0.4841180 0.54503393 0.360080333
## 5829 0.50000000 0.30940594 0.4886557 0.29339920 0.438278357
## 5830 0.43902439 0.55693069 0.4883721 0.41221911 0.560211759
## 5831 0.41463415 0.56188119 0.4861032 0.51721911 0.502432799
## 5832 0.56097561 0.47029703 0.4773114 0.52897053 0.385798017
## 5833 0.43902439 0.33910891 0.4702212 0.42044361 0.445451878
## 5834 0.50000000 0.55940594 0.4954623 0.40889362 0.488212505
## 5835 0.62195122 0.37128713 0.4846852 0.66506047 0.411690462
## 5836 0.31707317 0.38366337 0.4736245 0.50133410 0.544985790
## 5837 0.71951220 0.48267327 0.4931934 0.64049386 0.617702980
## 5838 0.71951220 0.47029703 0.4929098 0.64102492 0.513477737
## 5839 0.42682927 0.50495050 0.4897901 0.41370125 0.459431350
## 5840 0.43902439 0.59900990 0.5025525 0.44841092 0.642280531
## 5841 0.43902439 0.51980198 0.4699376 0.40728846 0.278798016
## 5842 0.53658537 0.29207921 0.4980147 0.61399232 0.584216432
## 5843 0.37804878 0.54702970 0.4665343 0.46450541 0.480273275
## 5844 0.46341463 0.54950495 0.4937606 0.41151530 0.599236013
## 5845 0.56097561 0.40841584 0.4951787 0.36854022 0.558735916
## 5846 0.50000000 0.41336634 0.4747589 0.60215776 0.457584689
## 5847 0.68292683 0.36881188 0.4906410 0.51140938 0.483769391
## 5848 0.34146341 0.58910891 0.4988656 0.36399745 0.504687270
## 5849 0.30487805 0.58910891 0.5164492 0.28676774 0.538137212
## 5850 0.59756098 0.37128713 0.4795803 0.70127721 0.371117442
## 5851 0.37804878 0.47772277 0.4792967 0.33079651 0.376634619
## 5852 0.58536585 0.45049505 0.4946115 0.58233736 0.515322856
## 5853 0.34146341 0.55445545 0.4665343 0.43365119 0.288180544
## 5854 0.56097561 0.47277228 0.4855360 0.37575478 0.457489975
## 5855 0.43902439 0.45792079 0.4869541 0.45355934 0.455043509
## 5856 0.59756098 0.39356436 0.4886557 0.60067445 0.507253334
## 5857 0.59756098 0.25990099 0.4532048 0.49816357 0.389598825
## 5858 0.47560976 0.38861386 0.4826999 0.60379488 0.404963435
## 5859 0.34146341 0.48514851 0.4892229 0.42152677 0.475690440
## 5860 0.21951220 0.62623762 0.4682360 0.38846863 0.289001863
## 5861 0.34146341 0.54207921 0.4846852 0.32178251 0.450971893
## 5862 0.59756098 0.28465347 0.4574589 0.58271232 0.518262199
## 5863 0.25609756 0.61386139 0.4713556 0.32920286 0.294197965
## 5864 0.31707317 0.42079208 0.4523539 0.36765880 0.384995728
## 5865 0.15853659 0.68069307 0.4671015 0.28808905 0.298907872
## 5866 0.50000000 0.45297030 0.5076574 0.42678520 0.287685989
## 5867 0.47560976 0.53960396 0.4889393 0.57877122 0.260275387
## 5868 0.50000000 0.45792079 0.4835508 0.58942175 0.613154691
## 5869 0.53658537 0.22029703 0.4724901 0.56008883 0.587916902
## 5870 0.30487805 0.36138614 0.4767442 0.45208362 0.489026125
## 5871 0.47560976 0.36386139 0.4934770 0.49916766 0.436876216
## 5872 0.62195122 0.56435644 0.4710720 0.45646563 0.405480934
```

```
## 5873 0.53658537 0.74752475 0.4546228 0.51767616 0.336585573
## 5874 0.59756098 0.54207921 0.5019853 0.52718209 0.355086838
## 5875 0.47560976 0.31930693 0.4815655 0.55037849 0.472506029
## 5876 0.40243902 0.60396040 0.4965967 0.49018280 0.641129524
## 5877 0.56097561 0.64851485 0.4917754 0.37300977 0.420975991
## 5878 0.47560976 0.27970297 0.4583097 0.45752769 0.543099692
## 5879 0.41463415 0.42574257 0.4875213 0.58738263 0.590251823
## 5880 0.47560976 0.44059406 0.4744753 0.54916331 0.449587604
## 5881 0.53658537 0.70544554 0.4804311 0.53041766 0.285453829
## 5882 0.59756098 0.47772277 0.4753261 0.73230234 0.437279036
## 5883 0.52439024 0.45049505 0.4739081 0.53160294 0.531962112
## 5884 0.47560976 0.44059406 0.4855360 0.34880193 0.490545848
## 5885 0.50000000 0.45544554 0.4909246 0.56610943 0.531338476
## 5886 0.43902439 0.71534653 0.4798639 0.48030065 0.415025993
## 5887 0.64634146 0.53217822 0.4807147 0.64205350 0.423129507
## 5888 0.43902439 0.61386139 0.4818491 0.51680874 0.442363306
## 5889 0.52439024 0.56683168 0.4724901 0.53028319 0.389787384
## 5890 0.50000000 0.42821782 0.6435054 0.53405111 0.455854865
## 5891 0.24390244 0.53465347 0.4393080 0.27562187 0.279042766
## 5892 0.56097561 0.49504950 0.4892229 0.54420206 0.646775239
## 5893 0.53658537 0.67326733 0.4832672 0.52378344 0.543883676
## 5894 0.59756098 0.37871287 0.5034033 0.56752678 0.405217446
## 5895 0.43902439 0.61881188 0.4892229 0.49787535 0.452803559
## 5896 0.37804878 0.41831683 0.4875213 0.48920670 0.534528683
## 5897 0.30487805 0.45544554 0.4764606 0.35232654 0.477134947
## 5898 0.28048780 0.44306931 0.4787294 0.36341160 0.475024105
## 5899 0.56097561 0.44306931 0.4739081 0.40817482 0.451752990
## 5900 0.78048780 0.33168317 0.4716393 0.68527882 0.585399647
## 5901 0.74390244 0.46534653 0.4903573 0.56075949 0.313555358
## 5902 0.52439024 0.47277228 0.4812819 0.55863747 0.606311074
## 5903 0.47560976 0.48267327 0.4756098 0.67252185 0.335417130
## 5904 0.41463415 0.39108911 0.5161656 0.36583119 0.580111621
## 5905 0.40243902 0.47772277 0.4509359 0.45771489 0.531727501
## 5906 0.53658537 0.64603960 0.4920590 0.48124735 0.405314624
## 5907 0.56097561 0.43564356 0.5000000 0.53353165 0.559314605
## 5908 0.30487805 0.48267327 0.6718661 0.38692252 0.412273231
## 5909 0.71951220 0.30940594 0.4747589 0.62554694 0.304037520
## 5910 0.56097561 0.49257426 0.4974475 0.62413548 0.494997423
## 5911 0.46341463 0.35891089 0.4781622 0.56839310 0.319204307
## 5912 0.56097561 0.40099010 0.4602950 0.51688104 0.484022475
## 5913 0.43902439 0.45297030 0.4824163 0.36418369 0.628171485
## 5914 0.24390244 0.56930693 0.5028361 0.36742131 0.322616068
## 5915 0.60975610 0.52475248 0.4767442 0.51159367 0.423184783
## 5916 0.56097561 0.36633663 0.5116279 0.46540260 0.629223086
## 5917 0.50000000 0.33168317 0.5306296 0.40813394 0.541670283
## 5918 0.65853659 0.37871287 0.4878049 0.61526430 0.530764779
## 5919 0.56097561 0.44306931 0.4798639 0.54360163 0.412500463
## 5920 0.40243902 0.45544554 0.4588769 0.57092242 0.427285627
## 5921 0.58536585 0.55198020 0.4824163 0.54328253 0.803419682
## 5922 0.65853659 0.52970297 0.4642655 0.65359946 0.429063894
## 5923 0.47560976 0.45297030 0.4943279 0.52175693 0.650233829
## 5924 0.68292683 0.39603960 0.5014180 0.54509979 0.612551148
## 5925 0.52439024 0.57425743 0.4656835 0.52564017 0.423075161
## 5926 0.59756098 0.50990099 0.4815655 0.55208809 0.474161517
## 5927 0.52439024 0.47277228 0.4707884 0.61072970 0.417321459
## 5928 0.52439024 0.47524752 0.4724901 0.44463710 0.449899261
## 5929 0.65853659 0.44059406 0.4758934 0.64881073 0.647078597
## 5930 0.40243902 0.46039604 0.4685196 0.51365995 0.408216252
```

```
## 5931 0.51219512 0.34158416 0.5070902 0.47757416 0.543883676
## 5932 0.43902439 0.57425743 0.4739081 0.48606486 0.639585965
## 5933 0.46341463 0.56188119 0.4651163 0.63047146 0.430866179
## 5934 0.53658537 0.44554455 0.5068066 0.52620470 0.417978961
## 5935 0.50000000 0.43316832 0.4968803 0.52274593 0.487260330
## 5936 0.46341463 0.44801980 0.4741917 0.52084161 0.374859606
## 5937 0.36585366 0.49504950 0.4446965 0.41145821 0.390911246
## 5938 0.58536585 0.34405941 0.4756098 0.58579706 0.391883891
## 5939 0.30487805 0.61138614 0.4900737 0.41493441 0.375675001
## 5940 0.50000000 0.36633663 0.4889393 0.60792837 0.538471001
## 5941 0.47560976 0.61386139 0.4878049 0.40978440 0.502518017
## 5942 0.43902439 0.36633663 0.4880885 0.36757340 0.454689963
## 5943 0.59756098 0.54207921 0.4801475 0.55283208 0.297818617
## 5944 0.53658537 0.35396040 0.4985820 0.49682878 0.575342186
## 5945 0.50000000 0.45792079 0.4897901 0.55412887 0.416506205
## 5946 0.31707317 0.59653465 0.4756098 0.48796093 0.379477194
## 5947 0.23170732 0.38861386 0.4968803 0.37813228 0.515353898
## 5948 0.50000000 0.33663366 0.4838344 0.41108057 0.511484252
## 5949 0.34146341 0.60396040 0.4946115 0.32590057 0.388823173
## 5950 0.47560976 0.42821782 0.5056721 0.55379442 0.588746542
## 5951 0.37804878 0.56683168 0.4869541 0.39964721 0.561149809
## 5952 0.25609756 0.64108911 0.4960295 0.46266061 0.415932094
## 5953 0.43902439 0.69059406 0.4943279 0.58422135 0.279940938
## 5954 0.56097561 0.60396040 0.4648327 0.55157560 0.382841457
## 5955 0.62195122 0.38861386 0.4824163 0.52344925 0.332360235
## 5956 0.51219512 0.64603960 0.4809983 0.47809225 0.547310784
## 5957 0.47560976 0.39603960 0.4861032 0.63827170 0.466227222
## 5958 0.37804878 0.51237624 0.4948951 0.51122961 0.663959762
## 5959 0.43902439 0.50000000 0.4696540 0.47201124 0.336865254
## 5960 0.78048780 0.64356436 0.4696540 0.77497217 0.382062800
## 5961 0.53658537 0.46534653 0.4807147 0.50483452 0.500959624
## 5962 0.52439024 0.23514851 0.4991492 0.55263022 0.317374806
## 5963 0.50000000 0.53712871 0.4790130 0.46318775 0.708065319
## 5964 0.31707317 0.58168317 0.4869541 0.50861193 0.547522478
## 5965 0.68292683 0.52722772 0.4724901 0.50210383 0.474328384
## 5966 0.35365854 0.44059406 0.4892229 0.47986045 0.647302863
## 5967 0.13414634 0.63366337 0.5042541 0.24546763 0.373814708
## 5968 0.53658537 0.28712871 0.4855360 0.42038758 0.413221230
## 5969 0.46341463 0.69059406 0.4750425 0.46494088 0.446828133
## 5970 0.58536585 0.46534653 0.4948951 0.40634933 0.492663089
## 5971 0.62195122 0.32920792 0.4974475 0.58677626 0.501508404
## 5972 0.47560976 0.21039604 0.4946115 0.49127194 0.438804943
## 5973 0.56097561 0.25990099 0.5073738 0.54415625 0.478517823
## 5974 0.31707317 0.46039604 0.4880885 0.39117189 0.381468458
## 5975 0.78048780 0.46782178 0.4619966 0.68213132 0.509102885
## 5976 0.50000000 0.41584158 0.4880885 0.47983347 0.485860117
## 5977 0.41463415 0.38861386 0.4730573 0.49824662 0.508683736
## 5978 0.40243902 0.74504950 0.4795803 0.44733328 0.493143949
## 5979 0.71951220 0.35891089 0.5119115 0.64089066 0.630429322
## 5980 0.28048780 0.57673267 0.4849688 0.39194218 0.565726163
## 5981 0.25609756 0.56683168 0.4844016 0.37942749 0.353978037
## 5982 0.46341463 0.68069307 0.4736245 0.47755172 0.492188580
## 5983 0.53658537 0.43069307 0.4892229 0.59566526 0.488499743
## 5984 0.37804878 0.30940594 0.4931934 0.35983636 0.396465010
## 5985 0.46341463 0.60148515 0.5019853 0.52354790 0.623367725
## 5986 0.43902439 0.35643564 0.4846852 0.56742976 0.665053436
## 5987 0.40243902 0.64603960 0.4844016 0.39614798 0.518588949
## 5988 0.35365854 0.51732673 0.5068066 0.44075520 0.442794542
```

```
## 5989 0.58536585 0.40346535 0.4838344 0.53119580 0.519391697
## 5990 0.50000000 0.32920792 0.5269427 0.40810334 0.533495308
## 5991 0.50000000 0.29702970 0.5042541 0.58108877 0.595196821
## 5992 0.25609756 0.57673267 0.4931934 0.29168373 0.481612150
## 5993 0.43902439 0.33168317 0.4824163 0.36002794 0.624852964
## 5994 0.40243902 0.29455446 0.4923426 0.48676983 0.502914818
## 5995 0.50000000 0.63118812 0.4636982 0.55409159 0.550968597
## 5996 0.43902439 0.49009901 0.4826999 0.51726804 0.620969883
## 5997 0.50000000 0.56930693 0.5431083 0.36852374 0.173086820
## 5998 0.78048780 0.28465347 0.4602950 0.63528615 0.322485433
## 5999 0.41463415 0.49752475 0.5195689 0.45998573 0.509153247
## 6000 0.09756098 0.25000000 0.4914918 0.10436297 0.459850340
## 6001 0.56097561 0.40346535 0.4897901 0.39936321 0.486335448
## 6002 0.56097561 0.33415842 0.5087918 0.53928894 0.568126876
## 6003 0.58536585 0.33663366 0.4804311 0.56139879 0.279616155
## 6004 0.25609756 0.25990099 0.4724901 0.44174388 0.597925641
## 6005 0.56097561 0.35891089 0.5317640 0.55154081 0.726033380
## 6006 0.56097561 0.54702970 0.4866704 0.48751551 0.667644606
## 6007 0.43902439 0.59900990 0.3511061 0.50756727 0.713479003
## 6008 0.74390244 0.34158416 0.4699376 0.71926071 0.764918869
## 6009 0.53658537 0.23514851 0.4861032 0.50195374 0.427241807
## 6010 0.56097561 0.56930693 0.4815655 0.46569696 0.436527625
## 6011 0.40243902 0.35643564 0.4781622 0.28554511 0.407658402
## 6012 0.50000000 0.54950495 0.5056721 0.47935459 0.590286218
## 6013 0.31707317 0.47277228 0.5314804 0.38493679 0.514367746
## 6014 0.53658537 0.26732673 0.4883721 0.47249067 0.541885474
## 6015 0.58536585 0.48019802 0.4778786 0.38550852 0.455461531
## 6016 0.47560976 0.44059406 0.4977311 0.53534077 0.488656171
## 6017 0.52439024 0.44554455 0.4895065 0.55622465 0.502181595
## 6018 0.43902439 0.48762376 0.4724901 0.40748472 0.589018723
## 6019 0.45121951 0.54702970 0.4948951 0.43783035 0.489153252
## 6020 0.50000000 0.54950495 0.5053885 0.38584557 0.486842622
## 6021 0.56097561 0.60396040 0.4906410 0.49206773 0.375647147
## 6022 0.53658537 0.60643564 0.4937606 0.45600941 0.568435008
## 6023 0.34146341 0.41336634 0.4665343 0.49875622 0.367308398
## 6024 0.28048780 0.35643564 0.4875213 0.49985746 0.647883682
## 6025 0.50000000 0.46534653 0.4710720 0.53173127 0.442544423
## 6026 0.47560976 0.34653465 0.4727737 0.54928767 0.406119414
## 6027 0.50000000 0.44801980 0.4682360 0.57357265 0.301483564
## 6028 0.46341463 0.38613861 0.4991492 0.41086166 0.328617150
## 6029 0.62195122 0.32920792 0.4608622 0.56154254 0.386748843
## 6030 0.69512195 0.28465347 0.4600113 0.84256776 0.572962532
## 6031 0.50000000 0.47772277 0.4628474 0.57112842 0.495045399
## 6032 0.57317073 0.51485149 0.5107771 0.64557670 0.393949595
## 6033 0.56097561 0.33415842 0.4770278 0.48785830 0.322939586
## 6034 0.46341463 0.37128713 0.5059558 0.49962575 0.450253043
## 6035 0.63414634 0.27475248 0.4977311 0.49734140 0.763800119
## 6036 0.56097561 0.59158416 0.4679524 0.46614991 0.399620479
## 6037 0.46341463 0.53712871 0.4829836 0.32060868 0.428692218
## 6038 0.40243902 0.52970297 0.4951787 0.32818121 0.432374970
## 6039 0.53658537 0.49752475 0.4645491 0.63813643 0.355478424
## 6040 0.28048780 0.34900990 0.4988656 0.35164403 0.558649340
## 6041 0.53658537 0.38613861 0.4764606 0.45771412 0.692917879
## 6042 0.50000000 0.63861386 0.4775950 0.59566778 0.460183207
## 6043 0.40243902 0.35148515 0.5096427 0.51861684 0.762554486
## 6044 0.50000000 0.60891089 0.4512195 0.51229533 0.437375238
## 6045 0.46341463 0.39603960 0.4991492 0.41087929 0.536179908
## 6046 0.47560976 0.66336634 0.4690868 0.46842971 0.508386990
```

```
## 6047 0.43902439 0.29702970 0.4710720 0.48365099 0.489595978
## 6048 0.47560976 0.46782178 0.4682360 0.58219358 0.410004118
## 6049 0.78048780 0.32425743 0.3363585 0.71356183 0.740735994
## 6050 0.53658537 0.42079208 0.5031197 0.44821582 0.390771211
## 6051 0.56097561 0.38366337 0.4951787 0.48693258 0.492056997
## 6052 0.74390244 0.28960396 0.4685196 0.51097378 0.412035701
## 6053 0.52439024 0.48762376 0.4841180 0.39585146 0.313424337
## 6054 0.52439024 0.52970297 0.4775950 0.44944971 0.511140450
## 6055 0.43902439 0.58168317 0.5181509 0.52353323 0.492493140
## 6056 0.59756098 0.53712871 0.4648327 0.50786580 0.377115776
## 6057 0.65853659 0.39108911 0.4923426 0.61098452 0.505259079
## 6058 0.68292683 0.63366337 0.4619966 0.44274440 0.220287742
## 6059 0.43902439 0.42079208 0.5127623 0.35602213 0.493750766
## 6060 0.37804878 0.48267327 0.5036869 0.31391017 0.509753101
## 6061 0.47560976 0.38366337 0.4863868 0.62286282 0.569042581
## 6062 0.50000000 0.40346535 0.4727737 0.57326029 0.451318905
## 6063 0.50000000 0.33415842 0.4682360 0.71640411 0.422337849
## 6064 0.46341463 0.33910891 0.4634146 0.40376102 0.353896528
## 6065 0.58536585 0.46287129 0.4744753 0.64653607 0.313517750
## 6066 0.53658537 0.25742574 0.4758934 0.51688915 0.426344713
## 6067 0.31707317 0.53217822 0.4838344 0.38379881 0.375121773
## 6068 0.31707317 0.52970297 0.4832672 0.35073587 0.618402172
## 6069 0.34146341 0.57425743 0.4917754 0.44689111 0.511501469
## 6070 0.59756098 0.38861386 0.4937606 0.60770327 0.548622196
## 6071 0.41463415 0.47772277 0.4671015 0.39246404 0.546973333
## 6072 0.74390244 0.33663366 0.4895065 0.58671278 0.725806138
## 6073 0.56097561 0.52970297 0.4934770 0.49203302 0.609577903
## 6074 0.37804878 0.50742574 0.4934770 0.48819001 0.641244015
## 6075 0.40243902 0.58168317 0.4878049 0.44157179 0.431244735
## 6076 0.62195122 0.42574257 0.5051049 0.60556751 0.629315391
## 6077 0.68292683 0.54455446 0.4549064 0.54400771 0.296306403
## 6078 0.50000000 0.42079208 0.5093590 0.34310431 0.681769817
## 6079 0.47560976 0.50495050 0.5034033 0.56724364 0.560402149
## 6080 0.28048780 0.64603960 0.4863868 0.28114652 0.410319797
## 6081 0.40243902 0.74504950 0.4736245 0.56319840 0.432255797
## 6082 0.56097561 0.41336634 0.4807147 0.44639107 0.473463577
## 6083 0.41463415 0.48514851 0.4781622 0.42195025 0.429442954
## 6084 0.53658537 0.27722772 0.4889393 0.48493789 0.544166965
## 6085 0.53658537 0.44059406 0.4858196 0.53830554 0.467911993
## 6086 0.52439024 0.53960396 0.4815655 0.41998562 0.297934781
## 6087 0.58536585 0.40841584 0.4815655 0.58185124 0.470269305
## 6088 0.46341463 0.43811881 0.4858196 0.38854088 0.466626621
## 6089 0.36585366 0.70049505 0.4815655 0.31197327 0.335267342
## 6090 0.59756098 0.50990099 0.4866704 0.58237957 0.443018719
## 6091 0.59756098 0.38613861 0.4869541 0.63992064 0.478640845
## 6092 0.52439024 0.46039604 0.4758934 0.50304836 0.308577303
## 6093 0.46341463 0.55940594 0.4835508 0.44770091 0.389795215
## 6094 0.65853659 0.34158416 0.4841180 0.54481288 0.514331360
## 6095 0.43902439 0.61138614 0.4849688 0.51013228 0.391088040
## 6096 0.52439024 0.46782178 0.4858196 0.58130659 0.450703301
## 6097 0.56097561 0.45792079 0.4634146 0.47984991 0.484618317
## 6098 0.59756098 0.57673267 0.4892229 0.53086329 0.411615571
## 6099 0.40243902 0.43811881 0.3499716 0.51062390 0.419195848
## 6100 0.41463415 0.40841584 0.4838344 0.57832544 0.390366612
## 6101 0.40243902 0.56683168 0.4707884 0.48316499 0.629713582
## 6102 0.50000000 0.55693069 0.4784458 0.58754256 0.512717424
## 6103 0.53658537 0.49009901 0.4702212 0.64517735 0.394690648
## 6104 0.37804878 0.43316832 0.4880885 0.43790972 0.387880974
```

468

```
## 6105 0.46341463 0.61386139 0.3338060 0.49238204 0.365650217
## 6106 0.43902439 0.55693069 0.4832672 0.49381721 0.435329813
## 6107 0.58536585 0.54455446 0.4676687 0.61117822 0.424440051
## 6108 0.74390244 0.76980198 0.5107771 0.80204172 0.418958194
## 6109 0.37804878 0.56683168 0.5034033 0.51105250 0.334928800
## 6110 0.64634146 0.36881188 0.4781622 0.65533796 0.388071964
## 6111 0.56097561 0.36386139 0.5042541 0.49285373 0.531365068
## 6112 0.43902439 0.60891089 0.4886557 0.35198782 0.377589135
## 6113 0.65853659 0.58168317 0.4086784 0.54829997 0.583529457
## 6114 0.47560976 0.66831683 0.4866704 0.45048244 0.382200559
## 6115 0.56097561 0.50742574 0.4824163 0.49720424 0.368994531
## 6116 0.62195122 0.49009901 0.4659671 0.59715796 0.475353120
## 6117 0.43902439 0.77475248 0.4846852 0.35643894 0.390630242
## 6118 0.58536585 0.46534653 0.4937606 0.52543121 0.383350997
## 6119 0.43902439 0.57425743 0.4503687 0.52198929 0.342903897
## 6120 0.31707317 0.51732673 0.4988656 0.53146444 0.471221772
## 6121 0.65853659 0.52475248 0.4912082 0.57262052 0.371514031
## 6122 0.37804878 0.58415842 0.4957459 0.45458824 0.494653000
## 6123 0.56097561 0.42574257 0.4985820 0.42010670 0.625431537
## 6124 0.40243902 0.47277228 0.4574589 0.42696570 0.305104850
## 6125 0.58536585 0.33910891 0.4948951 0.62134021 0.408232705
## 6126 0.65853659 0.47772277 0.4912082 0.45386300 0.270868999
## 6127 0.46341463 0.45792079 0.4980147 0.53734691 0.417495706
## 6128 0.19512195 0.32178218 0.4662507 0.24703773 0.527900467
## 6129 0.71951220 0.34158416 0.4707884 0.60149961 0.706684584
## 6130 0.43902439 0.62623762 0.4957459 0.42648536 0.407874424
## 6131 0.78048780 0.42574257 0.4770278 0.67312450 0.488204952
## 6132 0.40243902 0.45049505 0.4773114 0.39005298 0.591034535
## 6133 0.46341463 0.37376238 0.5890528 0.44643718 0.372419748
## 6134 0.34146341 0.52970297 0.5017016 0.34339363 0.403755058
## 6135 0.56097561 0.34653465 0.4826999 0.51551397 0.339511385
## 6136 0.50000000 0.41089109 0.4781622 0.43680123 0.577981024
## 6137 0.62195122 0.56930693 0.5002836 0.53629787 0.550525229
## 6138 0.46341463 0.62128713 0.4631310 0.34413945 0.178741200
## 6139 0.59756098 0.35643564 0.4960295 0.58026994 0.498945416
## 6140 0.50000000 0.44801980 0.4685196 0.45523181 0.325239162
## 6141 0.37804878 0.50742574 0.5053885 0.42640613 0.651826347
## 6142 0.50000000 0.35643564 0.4773114 0.48008240 0.344788285
## 6143 0.56097561 0.33910891 0.4764606 0.62805457 0.601511503
## 6144 0.50000000 0.53217822 0.4764606 0.39683252 0.413854312
## 6145 0.65853659 0.35891089 0.4934770 0.58639130 0.680368485
## 6146 0.50000000 0.53465347 0.4917754 0.56961982 0.390383620
## 6147 0.65853659 0.36386139 0.4968803 0.54229714 0.541887956
## 6148 0.62195122 0.54950495 0.4753261 0.66431344 0.590532618
## 6149 0.56097561 0.39356436 0.4671015 0.48701586 0.472867616
## 6150 0.50000000 0.34653465 0.4690868 0.56683393 0.483280940
## 6151 0.53658537 0.45049505 0.4912082 0.61381025 0.720799145
## 6152 0.31707317 0.62376238 0.4909246 0.42799068 0.469457126
## 6153 0.57317073 0.24504950 0.4798639 0.49077024 0.611395354
## 6154 0.43902439 0.52475248 0.4875213 0.43682462 0.518123993
## 6155 0.41463415 0.61386139 0.4770278 0.47392211 0.471125794
## 6156 0.36585366 0.53960396 0.4758934 0.44505825 0.266673202
## 6157 0.46341463 0.44059406 0.4659671 0.44524618 0.397555409
## 6158 0.31707317 0.65099010 0.4900737 0.46698883 0.481642978
## 6159 0.52439024 0.59653465 0.4676687 0.50561351 0.364907433
## 6160 0.62195122 0.19059406 0.5181509 0.49646456 0.469245107
## 6161 0.62195122 0.21287129 0.4991492 0.56503741 0.267131282
## 6162 0.62195122 0.31188119 0.5116279 0.63335084 0.401963159
```

469

```
## 6163 0.43902439 0.73762376 0.4863868 0.54659821 0.424302578
## 6164 0.47560976 0.66831683 0.4844016 0.45598352 0.392269012
## 6165 0.43902439 0.35891089 0.4997164 0.37439480 0.479800482
## 6166 0.40243902 0.49009901 0.4543392 0.57786691 0.185323645
## 6167 0.50000000 0.35396040 0.4764606 0.48158359 0.379751216
## 6168 0.43902439 0.69801980 0.4963131 0.32570924 0.168282821
## 6169 0.59756098 0.31930693 0.4758934 0.45142592 0.561530184
## 6170 0.52439024 0.40841584 0.5048213 0.45688240 0.439100597
## 6171 0.64634146 0.46534653 0.4758934 0.56525051 0.395362744
## 6172 0.47560976 0.56435644 0.4931934 0.37108995 0.423671822
## 6173 0.43902439 0.65346535 0.4920590 0.54089832 0.504810074
## 6174 0.60975610 0.64603960 0.4543392 0.37974482 0.205697351
## 6175 0.34146341 0.36633663 0.5082246 0.44459020 0.307300108
## 6176 0.59756098 0.42326733 0.4914918 0.56086729 0.259771388
## 6177 0.34146341 0.53217822 0.4602950 0.37864028 0.398786302
## 6178 0.74390244 0.73514851 0.4855360 0.68616227 0.235395243
## 6179 0.40243902 0.49504950 0.4960295 0.51765295 0.524264962
## 6180 0.35365854 0.52475248 0.4878049 0.46865808 0.608201653
## 6181 0.46341463 0.55198020 0.4892229 0.53159700 0.541305350
## 6182 0.56097561 0.43316832 0.4863868 0.48024853 0.347060977
## 6183 0.58536585 0.56930693 0.4804311 0.60561153 0.393542307
## 6184 0.65853659 0.37128713 0.4858196 0.52385986 0.612417407
## 6185 0.59756098 0.28465347 0.4214407 0.52167640 0.703040494
## 6186 0.40243902 0.45792079 0.4767442 0.43833570 0.452125532
## 6187 0.59756098 0.46534653 0.5014180 0.55291023 0.663775818
## 6188 0.47560976 0.41584158 0.4546228 0.55894995 0.297438718
## 6189 0.47560976 0.39108911 0.5155984 0.55704057 0.538701620
## 6190 0.78048780 0.15594059 0.4645491 0.83215373 0.392237061
## 6191 0.59756098 0.42079208 0.5235394 0.54650666 0.556428056
## 6192 0.43902439 0.23514851 0.4832672 0.53490353 0.714959265
## 6193 0.37804878 0.59653465 0.4892229 0.53494629 0.578665017
## 6194 0.56097561 0.34405941 0.4778786 0.50175031 0.510046624
## 6195 0.50000000 0.43316832 0.5085082 0.58174338 0.598150645
## 6196 0.71951220 0.30445545 0.4591605 0.64609450 0.475145515
## 6197 0.56097561 0.41584158 0.4568917 0.49235122 0.296244137
## 6198 0.39024390 0.50990099 0.4872377 0.47155065 0.437099742
## 6199 0.43902439 0.62376238 0.5002836 0.33902418 0.430486743
## 6200 0.40243902 0.64603960 0.4509359 0.47245071 0.440301285
## 6201 0.65853659 0.41831683 0.4991492 0.70894817 0.696976718
## 6202 0.43902439 0.59653465 0.4994328 0.55647574 0.440688375
## 6203 0.34146341 0.45792079 0.4778786 0.55171693 0.671534478
## 6204 0.34146341 0.23267327 0.5059558 0.44135466 0.437526025
## 6205 0.47560976 0.43069307 0.5036869 0.52873495 0.406073588
## 6206 0.50000000 0.51485149 0.4982984 0.61288057 0.296482715
## 6207 0.46341463 0.64851485 0.4682360 0.53843463 0.312449922
## 6208 0.65853659 0.59405941 0.4529212 0.71518358 0.322036744
## 6209 0.58536585 0.52722772 0.5249575 0.38482000 0.633795242
## 6210 0.37804878 0.71287129 0.4841180 0.39662932 0.461818557
## 6211 0.40243902 0.57425743 0.4948951 0.27610066 0.355190684
## 6212 0.52439024 0.38366337 0.4645491 0.50831128 0.348500339
## 6213 0.52439024 0.44306931 0.4778786 0.46607797 0.411469420
## 6214 0.34146341 0.56435644 0.4982984 0.28103880 0.374588773
## 6215 0.46341463 0.60891089 0.4656835 0.41360559 0.404808791
## 6216 0.50000000 0.75742574 0.4478162 0.41292141 0.392440970
## 6217 0.40243902 0.58910891 0.4897901 0.51294779 0.644736230
## 6218 0.40243902 0.47029703 0.5207033 0.54205178 0.643424378
## 6219 0.24390244 0.58663366 0.4957459 0.25022284 0.429697384
## 6220 0.53658537 0.37623762 0.4619966 0.63481013 0.351241995
```

470

```
## 6221 0.50000000 0.47772277 0.4747589 0.53758240 0.270594366
## 6222 0.52439024 0.54702970 0.4872377 0.40584195 0.528009845
## 6223 0.41463415 0.58168317 0.4804311 0.51572152 0.339613280
## 6224 0.28048780 0.64356436 0.4869541 0.25173845 0.593211444
## 6225 0.53658537 0.37376238 0.4815655 0.49650931 0.275346978
## 6226 0.43902439 0.61386139 0.4838344 0.51777648 0.449754453
## 6227 0.40243902 0.78217822 0.4878049 0.28427165 0.543208369
## 6228 0.56097561 0.35643564 0.4602950 0.50170247 0.278644345
## 6229 0.34146341 0.64603960 0.4991492 0.37607168 0.469535058
## 6230 0.52439024 0.54207921 0.4923426 0.55232627 0.590314418
## 6231 0.37804878 0.40346535 0.4948951 0.46313212 0.566483353
## 6232 0.65853659 0.29950495 0.4761770 0.54349661 0.340918075
## 6233 0.43902439 0.64356436 0.4671015 0.33554088 0.297280211
## 6234 0.68292683 0.37376238 0.4713556 0.47396162 0.413006602
## 6235 0.46341463 0.49504950 0.4855360 0.50895690 0.540281691
## 6236 0.41463415 0.62128713 0.4727737 0.42999598 0.543332256
## 6237 0.41463415 0.59900990 0.4963131 0.39091396 0.341914553
## 6238 0.47560976 0.24504950 0.5283607 0.38790470 0.643118167
## 6239 0.62195122 0.56683168 0.4965967 0.53702149 0.468318925
## 6240 0.46341463 0.49009901 0.4912082 0.54320582 0.523711347
## 6241 0.41463415 0.41089109 0.4500851 0.46897406 0.361766522
## 6242 0.46341463 0.47772277 0.4651163 0.37037155 0.305255442
## 6243 0.34146341 0.56435644 0.4963131 0.28054557 0.376340135
## 6244 0.59756098 0.54455446 0.5022689 0.73301652 0.554524559
## 6245 0.69512195 0.44554455 0.4795803 0.53768001 0.480428462
## 6246 0.46341463 0.54950495 0.4801475 0.46619070 0.653251124
## 6247 0.58536585 0.57425743 0.4753261 0.47080733 0.339163738
## 6248 0.30487805 0.57425743 0.5745888 0.38642789 0.207957149
## 6249 0.56097561 0.24257426 0.4571753 0.62665916 0.337982649
## 6250 0.31707317 0.57425743 0.4977311 0.43774095 0.490538224
## 6251 0.68292683 0.35396040 0.5014180 0.60249681 0.413209295
## 6252 0.43902439 0.59158416 0.4693704 0.51809726 0.560563257
## 6253 0.56097561 0.42821782 0.4895065 0.57258802 0.654963233
## 6254 0.58536585 0.41089109 0.4957459 0.55350090 0.505939945
## 6255 0.58536585 0.71534653 0.4886557 0.45941771 0.615818961
## 6256 0.43902439 0.34653465 0.5147476 0.42202122 0.387826050
## 6257 0.47560976 0.56435644 0.3876914 0.49084508 0.528624676
## 6258 0.50000000 0.40841584 0.4753261 0.46078446 0.476390710
## 6259 0.50000000 0.54950495 0.4963131 0.39661298 0.482691588
## 6260 0.37804878 0.20792079 0.4846852 0.39973105 0.642666603
## 6261 0.71951220 0.50247525 0.4719229 0.76114996 0.536845851
## 6262 0.43902439 0.59653465 0.4980147 0.55615809 0.442085275
## 6263 0.42682927 0.39356436 0.5170164 0.55157381 0.633680084
## 6264 0.46341463 0.16831683 0.5014180 0.48794431 0.320186186
## 6265 0.56097561 0.43069307 0.4948951 0.51892251 0.497068649
## 6266 0.71951220 0.24752475 0.4838344 0.62561187 0.564961239
## 6267 0.62195122 0.46287129 0.4804311 0.59143020 0.537508344
## 6268 0.52439024 0.23267327 0.4758934 0.62775125 0.567079591
## 6269 0.43902439 0.43069307 0.4540556 0.52461194 0.356348870
## 6270 0.56097561 0.37376238 0.4625638 0.46718580 0.326623956
## 6271 0.53658537 0.53960396 0.4951787 0.79293669 0.552616262
## 6272 0.63414634 0.50990099 0.4415769 0.67636141 0.217646321
## 6273 0.56097561 0.47524752 0.5062394 0.51042655 0.603029598
## 6274 0.65853659 0.27722772 0.3979013 0.56334644 0.497276648
## 6275 0.59756098 0.43811881 0.4685196 0.46782903 0.536006078
## 6276 0.37804878 0.56435644 0.4951787 0.30204118 0.545398103
## 6277 0.56097561 0.47772277 0.5357345 0.50363901 0.551813591
## 6278 0.50000000 0.38613861 0.4977311 0.43629135 0.507783507
```

```
## 6279 0.54878049 0.41336634 0.4761770 0.69264972 0.537032696
## 6280 0.41463415 0.38613861 0.4370391 0.60515914 0.574858163
## 6281 0.40243902 0.67326733 0.4977311 0.50729194 0.554461730
## 6282 0.50000000 0.45049505 0.4775950 0.42866313 0.438451058
## 6283 0.41463415 0.59653465 0.4795803 0.40746559 0.268887096
## 6284 0.29268293 0.56930693 0.4866704 0.45235733 0.358331595
## 6285 0.47560976 0.47524752 0.4736245 0.54687989 0.429339303
## 6286 0.40243902 0.47772277 0.4991492 0.28296422 0.499513336
## 6287 0.40243902 0.60396040 0.4977311 0.49042588 0.639289091
## 6288 0.31707317 0.71287129 0.4758934 0.52240687 0.519256419
## 6289 0.56097561 0.28217822 0.4960295 0.38580259 0.429558098
## 6290 0.47560976 0.60396040 0.4656835 0.59999306 0.367965900
## 6291 0.31707317 0.55940594 0.4869541 0.41194106 0.485464012
## 6292 0.50000000 0.15346535 0.5019853 0.59643504 0.708220682
## 6293 0.46341463 0.59405941 0.4739081 0.51710220 0.281543788
## 6294 0.36585366 0.53465347 0.5173001 0.46256549 0.581102718
## 6295 0.74390244 0.49752475 0.4824163 0.62240041 0.443964125
## 6296 0.59756098 0.36881188 0.5280771 0.48091491 0.482784796
## 6297 0.56097561 0.46039604 0.4838344 0.64639460 0.470379969
## 6298 0.32926829 0.38613861 0.4767442 0.60631042 0.455852195
## 6299 0.43902439 0.53712871 0.4744753 0.60249144 0.423215726
## 6300 0.40243902 0.47772277 0.4858196 0.56563600 0.477678343
## 6301 0.31707317 0.67574257 0.4917754 0.40173447 0.658066668
## 6302 0.41463415 0.59405941 0.4534884 0.65399221 0.429354231
## 6303 0.53658537 0.74009901 0.4509359 0.57205520 0.254207434
## 6304 0.56097561 0.46782178 0.5110607 0.52848885 0.476908673
## 6305 0.30487805 0.35891089 0.4764606 0.45283529 0.475549156
## 6306 0.50000000 0.47772277 0.4869541 0.46095366 0.502982056
## 6307 0.50000000 0.34405941 0.4897901 0.38324446 0.301609728
## 6308 0.40243902 0.54207921 0.4815655 0.40551498 0.434742281
## 6309 0.62195122 0.67326733 0.4923426 0.73073747 0.534968870
## 6310 0.43902439 0.61386139 0.4498015 0.51042754 0.410022654
## 6311 0.87804878 0.52970297 0.4625638 0.81574537 0.387714588
## 6312 0.43902439 0.43564356 0.4730573 0.41299805 0.474846830
## 6313 0.37804878 0.38118812 0.5056721 0.49981958 0.370138343
## 6314 0.30487805 0.49009901 0.4937606 0.46678329 0.474418138
## 6315 0.46341463 0.40346535 0.4841180 0.56250266 0.673820835
## 6316 0.50000000 0.57673267 0.4532048 0.48135439 0.596414279
## 6317 0.46341463 0.44059406 0.4557572 0.48577741 0.573085128
## 6318 0.65853659 0.28712871 0.4798639 0.63596275 0.645506539
## 6319 0.84146341 0.50742574 0.4648327 0.70766115 0.500563411
## 6320 0.43902439 0.51980198 0.4977311 0.52804334 0.658115051
## 6321 0.56097561 0.52227723 0.4778786 0.61410652 0.319327438
## 6322 0.86585366 0.73514851 0.5232558 0.91057067 0.455642258
## 6323 0.31707317 0.54702970 0.4934770 0.47598112 0.544442777
## 6324 0.51219512 0.28217822 0.4809983 0.59995584 0.468396031
## 6325 0.68292683 0.46534653 0.4866704 0.60785897 0.436802590
## 6326 0.50000000 0.55198020 0.4432785 0.49655999 0.472360259
## 6327 0.56097561 0.22277228 0.4767442 0.52645273 0.166831578
## 6328 0.46341463 0.34900990 0.4897901 0.57133663 0.665083732
## 6329 0.30487805 0.62376238 0.4988656 0.36860844 0.369124587
## 6330 0.52439024 0.27475248 0.4977311 0.41063881 0.460903781
## 6331 0.50000000 0.73267327 0.4948951 0.43620308 0.465151008
## 6332 0.43902439 0.58415842 0.4719229 0.50205327 0.294108766
## 6333 0.43902439 0.45544554 0.4920590 0.43522200 0.406236981
## 6334 0.50000000 0.38366337 0.4878049 0.40337140 0.525900652
## 6335 0.47560976 0.34653465 0.4685196 0.55295715 0.395349537
## 6336 0.47560976 0.52970297 0.4912082 0.45012536 0.451958607
```

```
## 6337 0.56097561 0.21534653 0.4631310 0.61146959 0.497953862
## 6338 0.43902439 0.45049505 0.4858196 0.40058227 0.319130646
## 6339 0.46341463 0.45297030 0.4756098 0.60519330 0.447269998
## 6340 0.43902439 0.68316832 0.4824163 0.38572230 0.397906325
## 6341 0.53658537 0.42821782 0.5045377 0.55282523 0.301723152
## 6342 0.80487805 0.23267327 0.4713556 0.73414852 0.459300212
## 6343 0.46341463 0.50495050 0.5127623 0.49437797 0.521885118
## 6344 0.53658537 0.54455446 0.4750425 0.54625072 0.440818501
## 6345 0.53658537 0.56188119 0.4965967 0.50117652 0.519033305
## 6346 0.52439024 0.39108911 0.4747589 0.62088330 0.388321663
## 6347 0.41463415 0.61881188 0.4914918 0.44401874 0.488264747
## 6348 0.43902439 0.18811881 0.4815655 0.52858724 0.507789831
## 6349 0.62195122 0.33910891 0.4730573 0.46976070 0.359180145
## 6350 0.68292683 0.33415842 0.4696540 0.50617194 0.384350731
## 6351 0.52439024 0.23762376 0.5008508 0.54451887 0.310515242
## 6352 0.50000000 0.52722772 0.4495179 0.58192461 0.321340932
## 6353 0.56097561 0.37623762 0.5280771 0.53588337 0.622228804
## 6354 0.84146341 0.45297030 0.4699376 0.85492195 0.425908581
## 6355 0.56097561 0.49009901 0.4699376 0.57526514 0.464497951
## 6356 0.46341463 0.36633663 0.4824163 0.46562009 0.569205548
## 6357 0.78048780 0.39851485 0.4741917 0.67134448 0.385243036
## 6358 0.57317073 0.43069307 0.4968803 0.56801747 0.594212026
## 6359 0.53658537 0.41584158 0.4931934 0.62017374 0.405929396
## 6360 0.25609756 0.35148515 0.4724901 0.15632314 0.493160077
## 6361 0.71951220 0.37871287 0.3979013 0.62599935 0.525842763
## 6362 0.53658537 0.50000000 0.4775950 0.54557215 0.352444389
## 6363 0.62195122 0.41336634 0.4974475 0.55878984 0.615818961
## 6364 0.65853659 0.34405941 0.5039705 0.64385978 0.530402716
## 6365 0.46341463 0.46039604 0.4889393 0.48978795 0.541657986
## 6366 0.41463415 0.42821782 0.5147476 0.37767866 0.589868281
## 6367 0.43902439 0.40594059 0.4923426 0.44990766 0.497196265
## 6368 0.46341463 0.54950495 0.5042541 0.38801539 0.467714757
## 6369 0.59756098 0.49009901 0.4608622 0.54981315 0.432749509
## 6370 0.69512195 0.48514851 0.4614294 0.66254204 0.334770096
## 6371 0.53658537 0.55940594 0.4863868 0.53463248 0.497525381
## 6372 0.52439024 0.33663366 0.4909246 0.45598422 0.360481102
## 6373 0.25609756 0.47029703 0.4818491 0.44514308 0.624565948
## 6374 0.50000000 0.67574257 0.4787294 0.50673078 0.654883747
## 6375 0.43902439 0.58415842 0.4761770 0.61792175 0.395232050
## 6376 0.40243902 0.46287129 0.4702212 0.51211414 0.428550883
## 6377 0.46341463 0.44059406 0.4892229 0.35731817 0.497009400
## 6378 0.52439024 0.54950495 0.4906410 0.49609211 0.438435011
## 6379 0.37804878 0.48019802 0.4787294 0.47703915 0.734263713
## 6380 0.65853659 0.63118812 0.4903573 0.46617396 0.350349539
## 6381 0.52439024 0.43811881 0.4597277 0.46809847 0.380704865
## 6382 0.43902439 0.46039604 0.4770278 0.57452626 0.469929155
## 6383 0.35365854 0.63118812 0.4980147 0.30690102 0.406974585
## 6384 0.63414634 0.39851485 0.4608622 0.54432655 0.360737767
## 6385 0.53658537 0.44306931 0.5056721 0.56706805 0.651385051
## 6386 0.56097561 0.63366337 0.4730573 0.46882768 0.514704351
## 6387 0.41463415 0.47277228 0.4977311 0.36117382 0.624514335
## 6388 0.46341463 0.59653465 0.4741917 0.51697291 0.280840371
## 6389 0.71951220 0.43316832 0.4597277 0.81555379 0.424459386
## 6390 0.37804878 0.50000000 0.4835508 0.41608984 0.507002441
## 6391 0.47560976 0.48762376 0.4872377 0.63511395 0.539296723
## 6392 0.47560976 0.72524752 0.4597277 0.42471745 0.441875397
## 6393 0.36585366 0.56930693 0.4841180 0.50539624 0.400995468
## 6394 0.62195122 0.36386139 0.4855360 0.51105378 0.412986075
```

473

```
## 6395 0.52439024 0.34900990 0.4863868 0.63885101 0.572295091
## 6396 0.40243902 0.42574257 0.4838344 0.42473715 0.499781906
## 6397 0.53658537 0.41584158 0.4968803 0.62467501 0.430252568
## 6398 0.53658537 0.54702970 0.4980147 0.53021714 0.536973704
## 6399 0.21951220 0.13118812 0.4801475 0.24601128 0.749711628
## 6400 0.67073171 0.38613861 0.4807147 0.51033422 0.537489428
## 6401 0.50000000 0.40099010 0.4906410 0.43421474 0.550976862
## 6402 0.64634146 0.50990099 0.4648327 0.66189728 0.442192579
## 6403 0.56097561 0.44059406 0.5065230 0.42971924 0.438918140
## 6404 0.56097561 0.28960396 0.4705048 0.54015233 0.424542762
## 6405 0.43902439 0.51485149 0.4855360 0.44180297 0.626789484
## 6406 0.56097561 0.57673267 0.4781622 0.54049069 0.596330252
## 6407 0.43902439 0.58663366 0.4861032 0.49401911 0.605564036
## 6408 0.50000000 0.43564356 0.4974475 0.53143727 0.403687722
## 6409 0.50000000 0.52227723 0.4770278 0.47477748 0.522157409
## 6410 0.40243902 0.56683168 0.4602950 0.28445456 0.402698690
## 6411 0.62195122 0.36633663 0.4676687 0.48951705 0.326369955
## 6412 0.58536585 0.45297030 0.4920590 0.58093918 0.573887453
## 6413 0.41463415 0.62128713 0.4580261 0.57028174 0.520183444
## 6414 0.65853659 0.58663366 0.4824163 0.60643784 0.248507648
## 6415 0.62195122 0.36138614 0.4682360 0.50669100 0.359931733
## 6416 0.43902439 0.58663366 0.4832672 0.52255873 0.562925369
## 6417 0.62195122 0.43316832 0.4897901 0.81872707 0.529291742
## 6418 0.57317073 0.29455446 0.4699376 0.58833108 0.425913478
## 6419 0.56097561 0.31683168 0.4895065 0.63344583 0.449184362
## 6420 0.43902439 0.58910891 0.4903573 0.34177765 0.358751557
## 6421 0.43902439 0.65594059 0.4846852 0.41635822 0.424281523
## 6422 0.53658537 0.29950495 0.4892229 0.47734865 0.604086448
## 6423 0.65853659 0.41584158 0.4963131 0.56168294 0.491018536
## 6424 0.52439024 0.29702970 0.4946115 0.46499451 0.515207561
## 6425 0.69512195 0.35891089 0.4750425 0.52832126 0.469642773
## 6426 0.46341463 0.52722772 0.5079410 0.56100675 0.564173115
## 6427 0.43902439 0.56188119 0.4611458 0.45193098 0.256022643
## 6428 0.37804878 0.46782178 0.4951787 0.44446705 0.615879886
## 6429 0.50000000 0.55198020 0.5085082 0.47597945 0.530181717
## 6430 0.37804878 0.25495050 0.4512195 0.33925846 0.552330380
## 6431 0.39024390 0.50247525 0.4741917 0.44632848 0.409394663
## 6432 0.37804878 0.48514851 0.4982984 0.40107045 0.510236940
## 6433 0.56097561 0.48267327 0.4472490 0.60687834 0.413188467
## 6434 0.46341463 0.59900990 0.5110607 0.37198854 0.553598014
## 6435 0.56097561 0.54207921 0.4625638 0.55127037 0.512304640
## 6436 0.37804878 0.61386139 0.5002836 0.50364305 0.454597274
## 6437 0.53658537 0.60891089 0.5031197 0.37377761 0.474860392
## 6438 0.58536585 0.61138614 0.5144640 0.62861487 0.456265543
## 6439 0.47560976 0.46782178 0.4736245 0.58648287 0.398517256
## 6440 0.40243902 0.27475248 0.4929098 0.36516376 0.461671922
## 6441 0.34146341 0.65099010 0.5124787 0.39361872 0.465934550
## 6442 0.74390244 0.28712871 0.4753261 0.65055734 0.384603784
## 6443 0.42682927 0.42079208 0.5243902 0.37535394 0.458732396
## 6444 0.62195122 0.64603960 0.4775950 0.49279034 0.168580602
## 6445 0.78048780 0.25000000 0.4656835 0.71903529 0.543371883
## 6446 0.40243902 0.62623762 0.4753261 0.50629658 0.512180565
## 6447 0.50000000 0.54455446 0.4954623 0.44972307 0.491131134
## 6448 0.71951220 0.33168317 0.4906410 0.53422847 0.671588712
## 6449 0.46341463 0.52475248 0.4931934 0.45633090 0.275090852
## 6450 0.15853659 0.57178218 0.4758934 0.30105114 0.415100850
## 6451 0.47560976 0.32178218 0.5045377 0.57703723 0.655156928
## 6452 0.43902439 0.58663366 0.4756098 0.45468628 0.393060780
```

```
## 6453 0.42682927 0.55198020 0.4699376 0.37542081 0.377544790
## 6454 0.62195122 0.36633663 0.5017016 0.57278197 0.634537196
## 6455 0.81707317 0.36386139 0.4617130 0.77790864 0.364918939
## 6456 0.53658537 0.48514851 0.4532048 0.57012206 0.370833008
## 6457 0.47560976 0.39108911 0.4943279 0.53738592 0.437475694
## 6458 0.46341463 0.59405941 0.4736245 0.53877915 0.456376404
## 6459 0.50000000 0.56435644 0.4767442 0.45705918 0.413962711
## 6460 0.45121951 0.51980198 0.4937606 0.31403269 0.401149479
## 6461 0.47560976 0.41089109 0.4866704 0.71956533 0.507052020
## 6462 0.50000000 0.55198020 0.4920590 0.47603596 0.454331586
## 6463 0.62195122 0.37623762 0.4636982 0.59083897 0.350776015
## 6464 0.43902439 0.29702970 0.4656835 0.48141902 0.481634122
## 6465 0.56097561 0.65099010 0.4875213 0.45571733 0.618579232
## 6466 0.21951220 0.69059406 0.5175837 0.38188233 0.649359270
## 6467 0.42682927 0.51732673 0.4912082 0.39903735 0.419651523
## 6468 0.28048780 0.57673267 0.4812819 0.35032861 0.261905772
## 6469 0.34146341 0.57425743 0.4775950 0.42009421 0.284798790
## 6470 0.71951220 0.34653465 0.4795803 0.70020158 0.523405204
## 6471 0.50000000 0.35643564 0.4985820 0.63594786 0.635522166
## 6472 0.46341463 0.56930693 0.5079410 0.47951561 0.572118630
## 6473 0.47560976 0.38366337 0.5017016 0.50524565 0.632071421
## 6474 0.62195122 0.46039604 0.4914918 0.67780963 0.572618135
## 6475 0.40243902 0.60891089 0.4826999 0.36991971 0.412920073
## 6476 0.41463415 0.57178218 0.5085082 0.38507366 0.508543379
## 6477 0.37804878 0.72772277 0.4886557 0.46647313 0.618519102
## 6478 0.63414634 0.48514851 0.4841180 0.55511598 0.469433097
## 6479 0.74390244 0.43316832 0.4920590 0.66165421 0.498663157
## 6480 0.56097561 0.41336634 0.5028361 0.66492857 0.706706643
## 6481 0.52439024 0.55693069 0.4807147 0.53062057 0.380485575
## 6482 0.50000000 0.51980198 0.4872377 0.64297847 0.452779489
## 6483 0.59756098 0.43316832 0.4863868 0.51300209 0.457113110
## 6484 0.41463415 0.48514851 0.4764606 0.42599871 0.429558624
## 6485 0.50000000 0.58663366 0.4844016 0.62040500 0.476358946
## 6486 0.37804878 0.50000000 0.4835508 0.41772811 0.504963025
## 6487 0.36585366 0.45049505 0.4849688 0.38813447 0.399120394
## 6488 0.65853659 0.41089109 0.4858196 0.62597454 0.537245920
## 6489 0.46341463 0.52227723 0.4861032 0.70740473 0.438229038
## 6490 0.43902439 0.59653465 0.5351673 0.44612431 0.415281801
## 6491 0.43902439 0.48019802 0.4801475 0.49770758 0.523010153
## 6492 0.52439024 0.46039604 0.4883721 0.56406239 0.337121292
## 6493 0.43902439 0.66831683 0.4866704 0.60267596 0.553165086
## 6494 0.50000000 0.50495050 0.4880885 0.65079959 0.469918471
## 6495 0.56097561 0.38366337 0.5031197 0.59100885 0.430475212
## 6496 0.73170732 0.46039604 0.4636982 0.55329853 0.464079394
## 6497 0.37804878 0.34405941 0.4963131 0.42006402 0.362712034
## 6498 0.42682927 0.69059406 0.4929098 0.51375986 0.348840066
## 6499 0.40243902 0.55940594 0.4707884 0.48793321 0.394991463
## 6500 0.34146341 0.23019802 0.4903573 0.50118312 0.635665840
## 6501 0.40243902 0.57920792 0.4957459 0.48320034 0.359124408
## 6502 0.52439024 0.77475248 0.4872377 0.47505048 0.453766487
## 6503 0.40243902 0.24257426 0.4957459 0.51441233 0.619304122
## 6504 0.59756098 0.44801980 0.4832672 0.56275851 0.545043848
## 6505 0.64634146 0.28712871 0.4713556 0.55621727 0.576340963
## 6506 0.46341463 0.44554455 0.4160522 0.48120360 0.608047928
## 6507 0.37804878 0.37623762 0.4844016 0.43808432 0.685335909
## 6508 0.56097561 0.45792079 0.5000000 0.53050805 0.166942782
## 6509 0.43902439 0.40841584 0.5121951 0.59690285 0.279605299
## 6510 0.58536585 0.48762376 0.4787294 0.50467856 0.432337273
```

```
## 6511 0.53658537 0.44059406 0.4846852 0.53661322 0.353635998
## 6512 0.65853659 0.46534653 0.4812819 0.68233834 0.368333031
## 6513 0.56097561 0.47772277 0.4639818 0.49931106 0.337486774
## 6514 0.52439024 0.39603960 0.4929098 0.46053163 0.394074874
## 6515 0.53658537 0.26732673 0.4829836 0.48569357 0.527766307
## 6516 0.59756098 0.47772277 0.4931934 0.57800301 0.501013152
## 6517 0.59756098 0.51732673 0.4792967 0.46524079 0.297789280
## 6518 0.43902439 0.85148515 0.5056721 0.48660321 0.571450713
## 6519 0.40243902 0.42326733 0.4673851 0.44463601 0.378953628
## 6520 0.59756098 0.50000000 0.4359047 0.52761484 0.592651397
## 6521 0.52439024 0.28465347 0.4798639 0.65135902 0.438499576
## 6522 0.52439024 0.23514851 0.5011344 0.53671788 0.298091005
## 6523 0.46341463 0.56188119 0.5073738 0.53599651 0.579776216
## 6524 0.41463415 0.39356436 0.4954623 0.59903142 0.559983711
## 6525 0.31707317 0.49257426 0.4880885 0.37152235 0.429951973
## 6526 0.43902439 0.44801980 0.5187181 0.38192086 0.540593849
## 6527 0.35365854 0.29455446 0.4770278 0.35268122 0.563717487
## 6528 0.46341463 0.63118812 0.4931934 0.48292464 0.269162064
## 6529 0.25609756 0.25990099 0.4733409 0.44327995 0.599711559
## 6530 0.46341463 0.56188119 0.4719229 0.47682413 0.395424531
## 6531 0.50000000 0.51732673 0.5045377 0.46286859 0.429581344
## 6532 0.58536585 0.34653465 0.4832672 0.45235820 0.441285342
## 6533 0.71951220 0.40841584 0.4619966 0.66759059 0.332030309
## 6534 0.70731707 0.33415842 0.4469654 0.61561065 0.449952715
## 6535 0.46341463 0.43811881 0.4971639 0.51279294 0.564793287
## 6536 0.47560976 0.64603960 0.4778786 0.57013628 0.213075934
## 6537 0.59756098 0.45297030 0.4636982 0.69160705 0.265130787
## 6538 0.59756098 0.33415842 0.4642655 0.68140437 0.346788013
## 6539 0.46341463 0.46782178 0.4943279 0.44782269 0.311609617
## 6540 0.36585366 0.47277228 0.4971639 0.43708394 0.534488619
## 6541 0.56097561 0.44554455 0.4954623 0.45354400 0.489718384
## 6542 0.43902439 0.66584158 0.4906410 0.47217894 0.309328375
## 6543 0.78048780 0.45792079 0.4764606 0.72723167 0.391864041
## 6544 0.37804878 0.49009901 0.5076574 0.41277819 0.357137259
## 6545 0.39024390 0.33415842 0.5017016 0.57493274 0.583889724
## 6546 0.68292683 0.39603960 0.4807147 0.63221887 0.615262043
## 6547 0.43902439 0.60643564 0.4977311 0.41303522 0.315521844
## 6548 0.53658537 0.33415842 0.4971639 0.45039806 0.425444772
## 6549 0.40243902 0.52227723 0.5570051 0.47036583 0.392289811
## 6550 0.59756098 0.73019802 0.4841180 0.46537079 0.571728611
## 6551 0.50000000 0.51237624 0.4713556 0.43048378 0.457634593
## 6552 0.78048780 0.42079208 0.4909246 0.60158422 0.517347805
## 6553 0.53658537 0.34158416 0.4940442 0.48877348 0.657661796
## 6554 0.58536585 0.70049505 0.4960295 0.62016687 0.393311850
## 6555 0.53658537 0.26732673 0.4756098 0.45067774 0.452521951
## 6556 0.53658537 0.59158416 0.4719229 0.59967571 0.380341280
## 6557 0.47560976 0.56683168 0.4912082 0.45646251 0.502757144
## 6558 0.46341463 0.33663366 0.4951787 0.38709239 0.753325732
## 6559 0.63414634 0.42079208 0.4699376 0.62843926 0.446998221
## 6560 0.53658537 0.37623762 0.4736245 0.68256625 0.491154527
## 6561 0.40243902 0.38366337 0.4818491 0.25384179 0.489688822
## 6562 0.52439024 0.56188119 0.4792967 0.45450105 0.412966969
## 6563 0.52439024 0.56683168 0.4770278 0.53303278 0.395502312
## 6564 0.50000000 0.69306931 0.4900737 0.55322762 0.591529839
## 6565 0.46341463 0.48019802 0.4841180 0.56267443 0.454366751
## 6566 0.53658537 0.27722772 0.4880885 0.48311536 0.543116645
## 6567 0.43902439 0.63366337 0.4798639 0.56396740 0.446754766
## 6568 0.47560976 0.48762376 0.4858196 0.57477423 0.460669057
```

```
## 6569 0.52439024 0.41831683 0.4892229 0.59932483 0.599150952
## 6570 0.62195122 0.38118812 0.4861032 0.42226351 0.494061185
## 6571 0.50000000 0.54702970 0.4897901 0.42012904 0.461270312
## 6572 0.43902439 0.30198020 0.4838344 0.44996891 0.348154383
## 6573 0.59756098 0.49009901 0.4957459 0.56533106 0.527581581
## 6574 0.63414634 0.48514851 0.4841180 0.55384816 0.468300923
## 6575 0.40243902 0.50247525 0.4829836 0.52326195 0.453935184
## 6576 0.34146341 0.36881188 0.4815655 0.41076113 0.320189443
## 6577 0.56097561 0.44554455 0.4832672 0.55322003 0.479252920
## 6578 0.68292683 0.34158416 0.4846852 0.62389751 0.499542983
## 6579 0.59756098 0.30445545 0.4886557 0.59298276 0.560013138
## 6580 0.34146341 0.54207921 0.4861032 0.47579451 0.502350854
## 6581 0.46341463 0.41336634 0.4710720 0.53610880 0.363232379
## 6582 0.41463415 0.16336634 0.4787294 0.57084933 0.543030688
## 6583 0.59756098 0.26732673 0.4900737 0.60042684 0.759900562
## 6584 0.53658537 0.64356436 0.4588769 0.48214255 0.749925342
## 6585 0.46341463 0.34405941 0.4977311 0.40705046 0.557266985
## 6586 0.50000000 0.31683168 0.5136132 0.62133911 0.503119568
## 6587 0.58536585 0.49504950 0.4835508 0.62323538 0.482166801
## 6588 0.62195122 0.35891089 0.5448100 0.56687590 0.337109327
## 6589 0.52439024 0.46039604 0.4719229 0.63793315 0.642784866
## 6590 0.71951220 0.50990099 0.4943279 0.62321801 0.650987323
## 6591 0.56097561 0.45544554 0.4991492 0.49073037 0.506955799
## 6592 0.78048780 0.64108911 0.4653999 0.77421719 0.380139409
## 6593 0.50000000 0.53465347 0.4906410 0.46858646 0.380297509
## 6594 0.43902439 0.51732673 0.4659671 0.57662944 0.289025234
## 6595 0.37804878 0.49257426 0.4594441 0.50109368 0.294985260
## 6596 0.50000000 0.48019802 0.4895065 0.49123869 0.589985242
## 6597 0.62195122 0.51485149 0.4724901 0.55636818 0.396278370
## 6598 0.68292683 0.47277228 0.4690868 0.51065257 0.545006261
## 6599 0.50000000 0.56930693 0.4826999 0.56298842 0.329212702
## 6600 0.56097561 0.32178218 0.4605786 0.56304373 0.442963477
## 6601 0.41463415 0.66089109 0.5085082 0.39268841 0.321565161
## 6602 0.62195122 0.56188119 0.4551900 0.48501383 0.464164766
## 6603 0.75609756 0.65099010 0.4580261 0.73010033 0.185076034
## 6604 0.34146341 0.16336634 0.5031197 0.48728343 0.545968757
## 6605 0.56097561 0.51237624 0.5085082 0.42682374 0.626712687
## 6606 0.50000000 0.37623762 0.4710720 0.65736901 0.440818501
## 6607 0.30487805 0.64108911 0.4963131 0.40156267 0.259727660
## 6608 0.50000000 0.41089109 0.4792967 0.44995696 0.588295895
## 6609 0.52439024 0.43069307 0.4100964 0.42781507 0.461806164
## 6610 0.74390244 0.47524752 0.4778786 0.59213795 0.481098780
## 6611 0.12195122 0.33910891 0.5005672 0.22351037 0.668364674
## 6612 0.46341463 0.53960396 0.5008508 0.42952252 0.436631119
## 6613 0.65853659 0.54455446 0.4844016 0.66308221 0.362216106
## 6614 0.24390244 0.49504950 0.4838344 0.12449939 0.451376235
## 6615 0.78048780 0.36633663 0.4730573 0.67646907 0.531847750
## 6616 0.21951220 0.46039604 0.4821327 0.29406056 0.453847214
## 6617 0.52439024 0.38861386 0.4920590 0.53466736 0.510111099
## 6618 0.69512195 0.54950495 0.4758934 0.68348823 0.324043120
## 6619 0.43902439 0.59900990 0.4829836 0.43949917 0.311722164
## 6620 0.36585366 0.69306931 0.4892229 0.27748493 0.531981363
## 6621 0.59756098 0.35396040 0.4841180 0.63350073 0.508339368
## 6622 0.34146341 0.56683168 0.4790130 0.56529670 0.551556773
## 6623 0.40243902 0.35148515 0.4790130 0.47392108 0.551800980
## 6624 0.53658537 0.24257426 0.4912082 0.47439345 0.463006060
## 6625 0.64634146 0.54950495 0.4812819 0.55636459 0.302022637
## 6626 0.62195122 0.38366337 0.4770278 0.53700653 0.492665504
```

```
## 6627 0.50000000 0.35643564 0.4846852 0.52116175 0.646602219
## 6628 0.65853659 0.36138614 0.4790130 0.50112026 0.572506836
## 6629 0.53658537 0.20049505 0.4798639 0.49659339 0.583550777
## 6630 0.50000000 0.38861386 0.4982984 0.43321406 0.494551696
## 6631 0.62195122 0.36386139 0.4903573 0.49747766 0.522845076
## 6632 0.59756098 0.44059406 0.4651163 0.66579497 0.518903116
## 6633 0.42682927 0.51237624 0.4787294 0.52322251 0.603739664
## 6634 0.71951220 0.31683168 0.4943279 0.67826531 0.474543072
## 6635 0.56097561 0.36138614 0.5252411 0.60462987 0.719318073
## 6636 0.53658537 0.59900990 0.4705048 0.61905204 0.194539242
## 6637 0.56097561 0.43316832 0.4940442 0.49547688 0.392730468
## 6638 0.28048780 0.60891089 0.4790130 0.36730865 0.392379960
## 6639 0.52439024 0.38613861 0.4764606 0.55861606 0.448487403
## 6640 0.43902439 0.58910891 0.4926262 0.48155183 0.482684299
## 6641 0.43902439 0.57673267 0.4750425 0.30658525 0.305280705
## 6642 0.63414634 0.23267327 0.4756098 0.81719905 0.552965867
## 6643 0.71951220 0.47029703 0.4809983 0.50205409 0.421512433
## 6644 0.57317073 0.48019802 0.4770278 0.61343058 0.466690106
## 6645 0.62195122 0.45297030 0.4951787 0.51848111 0.368012516
## 6646 0.43902439 0.40841584 0.4809983 0.40852360 0.454483274
## 6647 0.36585366 0.53960396 0.4784458 0.44897942 0.281877936
## 6648 0.40243902 0.63861386 0.4784458 0.51207049 0.381258488
## 6649 0.41463415 0.35643564 0.4934770 0.45229064 0.554201666
## 6650 0.52439024 0.41336634 0.5065230 0.36624896 0.600364039
## 6651 0.39024390 0.44801980 0.4713556 0.48087018 0.342469978
## 6652 0.37804878 0.56435644 0.4946115 0.30435632 0.545572090
## 6653 0.50000000 0.36386139 0.4784458 0.58396020 0.421235393
## 6654 0.40243902 0.57425743 0.5039705 0.41503688 0.540869245
## 6655 0.47560976 0.55198020 0.5076574 0.41545546 0.522523500
## 6656 0.46341463 0.54455446 0.4906410 0.43128226 0.439308412
## 6657 0.65853659 0.28960396 0.4733409 0.62802411 0.477459085
## 6658 0.28048780 0.42574257 0.4926262 0.36671925 0.638349765
## 6659 0.34146341 0.52475248 0.4846852 0.47238401 0.450365942
## 6660 0.47560976 0.27970297 0.4863868 0.57491404 0.610585486
## 6661 0.41463415 0.53217822 0.4897901 0.58869665 0.551484120
## 6662 0.43902439 0.56435644 0.4931934 0.38199950 0.509992589
## 6663 0.41463415 0.51980198 0.4895065 0.47805421 0.480583979
## 6664 0.46341463 0.61138614 0.4988656 0.46106637 0.437088995
## 6665 0.41463415 0.44306931 0.4917754 0.41878407 0.631527948
## 6666 0.53658537 0.34653465 0.4934770 0.58623046 0.632768097
## 6667 0.43902439 0.47029703 0.4878049 0.41689651 0.486547421
## 6668 0.37804878 0.46534653 0.4940442 0.44386738 0.613952329
## 6669 0.46341463 0.44059406 0.4844016 0.32882819 0.390655670
## 6670 0.53658537 0.44554455 0.4841180 0.54097948 0.568491402
## 6671 0.46341463 0.55940594 0.4900737 0.49298473 0.639829880
## 6672 0.53658537 0.28712871 0.4914918 0.41742076 0.411179531
## 6673 0.50000000 0.70544554 0.4883721 0.43909246 0.363110134
## 6674 0.50000000 0.42079208 0.4719229 0.54790238 0.302345984
## 6675 0.56097561 0.55445545 0.4844016 0.59564633 0.357654001
## 6676 0.62195122 0.60891089 0.4699376 0.44609797 0.334217267
## 6677 0.47560976 0.35396040 0.4926262 0.49139907 0.519244330
## 6678 0.47560976 0.61386139 0.5056721 0.46164688 0.367522854
## 6679 0.46341463 0.54950495 0.4798639 0.47850287 0.295915302
## 6680 0.29268293 0.46782178 0.5147476 0.42014862 0.626991959
## 6681 0.56097561 0.25990099 0.4929098 0.63004115 0.728122325
## 6682 0.48780488 0.45297030 0.4841180 0.60783677 0.441587498
## 6683 0.37804878 0.33415842 0.4696540 0.35116203 0.058664746
## 6684 0.43902439 0.36138614 0.4861032 0.41008073 0.416151080
```

```
## 6685 0.40243902 0.47772277 0.4912082 0.45218270 0.366201957
## 6686 0.46341463 0.52227723 0.4909246 0.70458781 0.430948857
## 6687 0.43902439 0.71039604 0.4829836 0.36406517 0.389026244
## 6688 0.62195122 0.34405941 0.4804311 0.72244051 0.639997271
## 6689 0.30487805 0.44801980 0.4974475 0.36204220 0.520424904
## 6690 0.50000000 0.25000000 0.4960295 0.56575774 0.500665751
## 6691 0.59756098 0.38366337 0.5039705 0.41549277 0.387960474
## 6692 0.43902439 0.53217822 0.4821327 0.44034749 0.626891261
## 6693 0.53658537 0.45049505 0.4736245 0.65279344 0.378284748
## 6694 0.68292683 0.49009901 0.4923426 0.52026347 0.362230811
## 6695 0.47560976 0.52970297 0.4886557 0.45169804 0.443433503
## 6696 0.62195122 0.64603960 0.4758934 0.49676332 0.150827756
## 6697 0.37804878 0.48514851 0.4676687 0.42573286 0.342422792
## 6698 0.34146341 0.46287129 0.4943279 0.33447785 0.574212317
## 6699 0.57317073 0.43316832 0.4937606 0.56364454 0.593274935
## 6700 0.68292683 0.25247525 0.4713556 0.53043398 0.539231351
## 6701 0.53658537 0.44554455 0.4744753 0.51664222 0.377975507
## 6702 0.41463415 0.65099010 0.4705048 0.55726466 0.396395670
## 6703 0.47560976 0.38366337 0.4787294 0.54004101 0.499654129
## 6704 0.50000000 0.45049505 0.4727737 0.52049791 0.370120684
## 6705 0.40243902 0.44306931 0.4634146 0.58123963 0.292616785
## 6706 0.47560976 0.44554455 0.4988656 0.51366800 0.664191029
## 6707 0.40243902 0.41336634 0.4778786 0.48131282 0.494621485
## 6708 0.56097561 0.33910891 0.4753261 0.63241227 0.630455891
## 6709 0.53658537 0.48267327 0.4858196 0.47052584 0.567720869
## 6710 0.59756098 0.25742574 0.4929098 0.59783950 0.448457225
## 6711 0.65853659 0.40346535 0.4997164 0.61891996 0.534419175
## 6712 0.40243902 0.64108911 0.5025525 0.22048370 0.461063300
## 6713 0.47560976 0.47524752 0.5017016 0.50590876 0.702084528
## 6714 0.52439024 0.34900990 0.4903573 0.62020685 0.438867185
## 6715 0.65853659 0.45297030 0.4943279 0.56147969 0.572621732
## 6716 0.40243902 0.69059406 0.4895065 0.43633306 0.375129831
## 6717 0.59756098 0.41584158 0.4741917 0.57804158 0.408616633
## 6718 0.28048780 0.57425743 0.4951787 0.36461470 0.553199190
## 6719 0.68292683 0.39851485 0.4741917 0.71377610 0.629140310
## 6720 0.30487805 0.54950495 0.5022689 0.33542309 0.408685656
## 6721 0.52439024 0.38366337 0.4688032 0.50618296 0.357580237
## 6722 0.46341463 0.59158416 0.4914918 0.49343566 0.531521518
## 6723 0.35365854 0.61138614 0.4824163 0.55988449 0.321806157
## 6724 0.41463415 0.48267327 0.4784458 0.63412349 0.461116779
## 6725 0.53658537 0.39603960 0.4869541 0.64761720 0.664551712
## 6726 0.57317073 0.41089109 0.4739081 0.65079849 0.387948746
## 6727 0.30487805 0.55198020 0.4957459 0.40467758 0.458544502
## 6728 0.37804878 0.42079208 0.4713556 0.48240936 0.464955165
## 6729 0.36585366 0.53960396 0.4773114 0.38383412 0.201708918
## 6730 0.52439024 0.50247525 0.4875213 0.33451995 0.467109325
## 6731 0.30487805 0.68069307 0.4937606 0.21365483 0.393281248
## 6732 0.46341463 0.50742574 0.4685196 0.50775267 0.338190801
## 6733 0.56097561 0.42079208 0.4826999 0.55207446 0.461595307
## 6734 0.63414634 0.35643564 0.4875213 0.80952097 0.613881310
## 6735 0.47560976 0.48762376 0.4872377 0.63885499 0.540800978
## 6736 0.56097561 0.48019802 0.4835508 0.77170213 0.498450864
## 6737 0.25609756 0.40099010 0.5635281 0.42202202 0.698901243
## 6738 0.30487805 0.49752475 0.4872377 0.31338922 0.520970955
## 6739 0.42682927 0.50990099 0.4960295 0.50767606 0.249303575
## 6740 0.62195122 0.33663366 0.5048213 0.58546340 0.600232983
## 6741 0.50000000 0.28712871 0.4900737 0.54738415 0.529936590
## 6742 0.52439024 0.40346535 0.5300624 0.43268739 0.561103272
```

```
## 6743 0.37804878 0.49752475 0.4903573 0.37185644 0.558551573
## 6744 0.43902439 0.43811881 0.5079410 0.46756474 0.512507647
## 6745 0.56097561 0.38861386 0.4892229 0.53253257 0.555566482
## 6746 0.47560976 0.37871287 0.4804311 0.49736177 0.436039108
## 6747 0.50000000 0.43316832 0.4645491 0.48017313 0.169343429
## 6748 0.56097561 0.29207921 0.4866704 0.66593352 0.636609339
## 6749 0.34146341 0.39603960 0.4648327 0.55021989 0.493095130
## 6750 0.46341463 0.37623762 0.4929098 0.47880482 0.551336711
## 6751 0.50000000 0.49009901 0.4900737 0.48105762 0.532724191
## 6752 0.43902439 0.59158416 0.4872377 0.50558285 0.453565503
## 6753 0.56097561 0.37871287 0.4889393 0.64415426 0.487710063
## 6754 0.34146341 0.50742574 0.4656835 0.47305641 0.405173757
## 6755 0.53658537 0.41089109 0.4974475 0.50693017 0.517192125
## 6756 0.52439024 0.66089109 0.4914918 0.41687812 0.199685129
## 6757 0.53658537 0.44554455 0.4756098 0.51601501 0.376034677
## 6758 0.43902439 0.47524752 0.4985820 0.46121833 0.497352299
## 6759 0.58536585 0.36138614 0.5346001 0.44639664 0.620544855
## 6760 0.62195122 0.34653465 0.4954623 0.56632636 0.525586940
## 6761 0.40243902 0.64603960 0.4858196 0.40105660 0.520804532
## 6762 0.54878049 0.42326733 0.4920590 0.51112094 0.575701837
## 6763 0.56097561 0.60148515 0.4960295 0.50689544 0.329488316
## 6764 0.47560976 0.72524752 0.4758934 0.42732068 0.461311386
## 6765 0.43902439 0.32178218 0.4753261 0.55191355 0.395592579
## 6766 0.56097561 0.39851485 0.4968803 0.40873550 0.507088527
## 6767 0.31707317 0.56188119 0.4980147 0.52637942 0.538685275
## 6768 0.21951220 0.45049505 0.4710720 0.46561013 0.533188816
## 6769 0.30487805 0.54455446 0.4685196 0.44616831 0.401086532
## 6770 0.37804878 0.51237624 0.4909246 0.48752066 0.461955870
## 6771 0.68292683 0.41089109 0.4923426 0.54085514 0.489869111
## 6772 0.52439024 0.33168317 0.4889393 0.43343706 0.282456583
## 6773 0.46341463 0.37128713 0.4758934 0.50992580 0.421957309
## 6774 0.31707317 0.51485149 0.4812819 0.46474569 0.459106405
## 6775 0.71951220 0.37376238 0.4988656 0.56674556 0.536228606
## 6776 0.43902439 0.30198020 0.4971639 0.53720389 0.428925635
## 6777 0.40243902 0.54207921 0.4818491 0.40904427 0.436195769
## 6778 0.37804878 0.33168317 0.4872377 0.50633206 0.340339517
## 6779 0.52439024 0.42821782 0.4707884 0.52957994 0.708692702
## 6780 0.62195122 0.32920792 0.5195689 0.57522181 0.439034944
## 6781 0.28048780 0.70544554 0.4929098 0.17575518 0.486555073
## 6782 0.59756098 0.64108911 0.4815655 0.53198444 0.384632348
## 6783 0.62195122 0.50742574 0.5005672 0.46031911 0.471865438
## 6784 0.45121951 0.51237624 0.4770278 0.49552368 0.371001724
## 6785 0.50000000 0.42326733 0.4821327 0.55464825 0.642983449
## 6786 0.52439024 0.54207921 0.4895065 0.55325758 0.582359277
## 6787 0.43902439 0.46039604 0.4826999 0.62901399 0.482110677
## 6788 0.84146341 0.50247525 0.4668179 0.65698257 0.397990344
## 6789 0.56097561 0.39108911 0.4869541 0.48935621 0.554655397
## 6790 0.53658537 0.44306931 0.4614294 0.57241293 0.658200078
## 6791 0.56097561 0.58910891 0.4869541 0.54109231 0.340583872
## 6792 0.53658537 0.48762376 0.4671015 0.67958071 0.344972770
## 6793 0.47560976 0.61138614 0.4832672 0.55325745 0.604617100
## 6794 0.53658537 0.38861386 0.4858196 0.58777684 0.550053144
## 6795 0.53658537 0.31683168 0.4832672 0.49413757 0.442228491
## 6796 0.46341463 0.37128713 0.4872377 0.34795171 0.427680523
## 6797 0.28048780 0.51485149 0.4985820 0.17461611 0.637254473
## 6798 0.28048780 0.53217822 0.5141804 0.36013329 0.574747341
## 6799 0.56097561 0.68069307 0.4900737 0.58216562 0.461102595
## 6800 0.53658537 0.47277228 0.4878049 0.62234162 0.486688252
```

```
## 6801 0.59756098 0.12376238 0.4866704 0.54105085 0.371161165
## 6802 0.50000000 0.36881188 0.4929098 0.54784257 0.535536278
## 6803 0.43902439 0.53465347 0.4665343 0.58534182 0.576900477
## 6804 0.40243902 0.64356436 0.4943279 0.24387574 0.591921346
## 6805 0.52439024 0.41831683 0.5048213 0.40935613 0.506432394
## 6806 0.50000000 0.55693069 0.4917754 0.40261745 0.408111685
## 6807 0.43902439 0.51980198 0.4818491 0.42637399 0.306132774
## 6808 0.28048780 0.52227723 0.4829836 0.28039552 0.415522624
## 6809 0.58536585 0.33910891 0.4903573 0.58305560 0.673277498
## 6810 0.36585366 0.54207921 0.4761770 0.38426556 0.203527099
## 6811 0.50000000 0.39108911 0.4798639 0.61986555 0.432066533
## 6812 0.40243902 0.36881188 0.4917754 0.43763755 0.329714780
## 6813 0.34146341 0.57673267 0.4724901 0.41539590 0.510737797
## 6814 0.50000000 0.44554455 0.4730573 0.51808522 0.404808791
## 6815 0.18292683 0.44801980 0.5113443 0.11114614 0.590559813
## 6816 0.31707317 0.37128713 0.4773114 0.35387246 0.508004842
## 6817 0.50000000 0.40099010 0.4722065 0.59946674 0.335661881
## 6818 0.56097561 0.31435644 0.4889393 0.50092756 0.539636289
## 6819 0.50000000 0.50247525 0.4960295 0.37257504 0.649872802
## 6820 0.41463415 0.52722772 0.4892229 0.42378263 0.472064349
## 6821 0.41463415 0.48514851 0.4792967 0.43015734 0.429586892
## 6822 0.47560976 0.56435644 0.4926262 0.52081173 0.579981302
## 6823 0.65853659 0.56683168 0.4878049 0.58997254 0.613352524
## 6824 0.43902439 0.45544554 0.5025525 0.40478742 0.525804799
## 6825 0.58536585 0.67574257 0.4812819 0.64740093 0.348666110
## 6826 0.56097561 0.46534653 0.4832672 0.59000086 0.459580308
## 6827 0.57317073 0.50990099 0.4861032 0.50513008 0.460826770
## 6828 0.62195122 0.36633663 0.4855360 0.50750655 0.411191520
## 6829 0.52439024 0.56435644 0.5127623 0.47931462 0.544758801
## 6830 0.65853659 0.45544554 0.4826999 0.53261672 0.453798704
## 6831 0.56097561 0.46039604 0.4546228 0.55148884 0.270251582
## 6832 0.47560976 0.49752475 0.4880885 0.58977408 0.567788832
## 6833 0.68292683 0.25495050 0.4688032 0.53147489 0.532145984
## 6834 0.50000000 0.51980198 0.5002836 0.41484596 0.490690768
## 6835 0.34146341 0.49752475 0.5368690 0.43213554 0.552635835
## 6836 0.74390244 0.34405941 0.4829836 0.63895377 0.474239946
## 6837 0.28048780 0.43316832 0.4923426 0.24368530 0.410036370
## 6838 0.50000000 0.50247525 0.4869541 0.48695847 0.645069242
## 6839 0.40243902 0.57673267 0.4954623 0.48552532 0.370179438
## 6840 0.28048780 0.64603960 0.4869541 0.28623606 0.407441822
## 6841 0.46341463 0.45297030 0.4878049 0.53767609 0.377159745
## 6842 0.56097561 0.29207921 0.4866704 0.66541421 0.634697831
## 6843 0.64634146 0.54950495 0.4841180 0.55516890 0.304011559
## 6844 0.50000000 0.20544554 0.4929098 0.44927476 0.585188452
## 6845 0.63414634 0.34158416 0.4903573 0.65471141 0.676062803
## 6846 0.52439024 0.55693069 0.4909246 0.45222806 0.602677537
## 6847 0.43902439 0.26732673 0.4713556 0.49313091 0.501139521
## 6848 0.50000000 0.60148515 0.4892229 0.59481735 0.408426762
## 6849 0.35365854 0.58910891 0.4872377 0.47613811 0.546859128
## 6850 0.68292683 0.39356436 0.4699376 0.69275412 0.760553619
## 6851 0.56097561 0.31930693 0.4818491 0.48674338 0.490500508
## 6852 0.34146341 0.50247525 0.4824163 0.35469228 0.352684159
## 6853 0.56097561 0.57425743 0.4807147 0.56627547 0.565225817
## 6854 0.50000000 0.54950495 0.5119115 0.38824126 0.467385610
## 6855 0.53658537 0.40346535 0.5547362 0.46041450 0.311200446
## 6856 0.34146341 0.62871287 0.5102099 0.46668989 0.541296472
## 6857 0.56097561 0.52475248 0.4892229 0.59859926 0.488741258
## 6858 0.40243902 0.44306931 0.4963131 0.46966615 0.419336898
```

481

```
## 6859 0.34146341 0.50990099 0.4713556 0.45465542 0.273973536
## 6860 0.62195122 0.36386139 0.4974475 0.41183166 0.530775468
## 6861 0.46341463 0.40594059 0.4863868 0.53798794 0.607467504
## 6862 0.41463415 0.44306931 0.4909246 0.48378842 0.711429850
## 6863 0.34146341 0.40841584 0.5065230 0.41733815 0.556966246
## 6864 0.36585366 0.64851485 0.4841180 0.46709714 0.402921457
## 6865 0.37804878 0.39603960 0.4812819 0.36696816 0.338586353
## 6866 0.50000000 0.44059406 0.4753261 0.61302312 0.482657648
## 6867 0.31707317 0.60643564 0.4807147 0.48259578 0.280727919
## 6868 0.53658537 0.34405941 0.4900737 0.52473566 0.547539793
## 6869 0.50000000 0.52970297 0.4889393 0.48619689 0.489245650
## 6870 0.46341463 0.46534653 0.4030062 0.64095683 0.497500864
## 6871 0.40243902 0.43316832 0.4914918 0.58775192 0.495288851
## 6872 0.41463415 0.48514851 0.4792967 0.42932051 0.428005963
## 6873 0.56097561 0.41336634 0.4968803 0.66137416 0.700850496
## 6874 0.52439024 0.48267327 0.4770278 0.50645059 0.274814846
## 6875 0.47560976 0.44801980 0.4829836 0.61004589 0.652098099
## 6876 0.28048780 0.57920792 0.4809983 0.37527092 0.294428290
## 6877 0.47560976 0.38366337 0.4892229 0.41846447 0.554577161
## 6878 0.59756098 0.50990099 0.4866704 0.57917699 0.451670197
## 6879 0.37804878 0.57178218 0.4849688 0.49963440 0.536017700
## 6880 0.57317073 0.39356436 0.4849688 0.61773614 0.660061512
## 6881 0.28048780 0.69801980 0.4792967 0.42889715 0.210780747
## 6882 0.36585366 0.45049505 0.4849688 0.38614903 0.396310841
## 6883 0.63414634 0.27722772 0.4946115 0.50135391 0.730147979
## 6884 0.50000000 0.34900990 0.4858196 0.38347415 0.464849227
## 6885 0.56097561 0.66584158 0.4878049 0.55114996 0.703953846
## 6886 0.37804878 0.30693069 0.4875213 0.46615136 0.604492264
## 6887 0.53658537 0.57178218 0.4829836 0.58547619 0.245465684
## 6888 0.56097561 0.36386139 0.4846852 0.56986456 0.541016690
## 6889 0.25609756 0.66089109 0.5002836 0.36481835 0.587657062
## 6890 0.47560976 0.21287129 0.4883721 0.52678908 0.394694361
## 6891 0.68292683 0.42079208 0.4869541 0.57727748 0.536769197
## 6892 0.47560976 0.59158416 0.4906410 0.66204254 0.420069597
## 6893 0.46341463 0.47029703 0.4838344 0.47056237 0.448152750
## 6894 0.46341463 0.66831683 0.4744753 0.37337432 0.413830247
## 6895 0.34146341 0.37623762 0.4920590 0.48649085 0.725944021
## 6896 0.50000000 0.41831683 0.4920590 0.56388914 0.430079208
## 6897 0.43902439 0.63366337 0.4895065 0.42404728 0.400013106
## 6898 0.43902439 0.43564356 0.4764606 0.37035238 0.216289748
## 6899 0.43902439 0.45544554 0.5158820 0.40922341 0.653092650
## 6900 0.54878049 0.50742574 0.4829836 0.44389204 0.479759586
## 6901 0.50000000 0.31188119 0.4943279 0.58537070 0.505107363
## 6902 0.37804878 0.48019802 0.4994328 0.49896012 0.599978931
## 6903 0.62195122 0.59158416 0.4903573 0.83196059 0.524586415
## 6904 0.50000000 0.58910891 0.4943279 0.61920076 0.469533297
## 6905 0.43902439 0.51980198 0.4696540 0.60418088 0.370010724
## 6906 0.56097561 0.25742574 0.4954623 0.62285583 0.721654783
## 6907 0.56097561 0.32178218 0.5110607 0.40676572 0.495090002
## 6908 0.21951220 0.48267327 0.4929098 0.47492660 0.636787683
## 6909 0.62195122 0.48267327 0.4838344 0.52574623 0.448796430
## 6910 0.47560976 0.44059406 0.4818491 0.45012381 0.332746300
## 6911 0.43902439 0.50990099 0.5079410 0.36732524 0.366329123
## 6912 0.48780488 0.54455446 0.4832672 0.35231825 0.455332515
## 6913 0.34146341 0.30693069 0.4829836 0.54082480 0.618805641
## 6914 0.69512195 0.37128713 0.4753261 0.67485962 0.582923619
## 6915 0.68292683 0.48762376 0.5079410 0.66073427 0.483424581
## 6916 0.64634146 0.37376238 0.4994328 0.54270152 0.443187291
```

```
## 6917 0.69512195 0.51485149 0.4716393 0.76414063 0.439977153
## 6918 0.52439024 0.63613861 0.4787294 0.53624059 0.434706033
## 6919 0.50000000 0.52722772 0.4906410 0.57994020 0.476492664
## 6920 0.43902439 0.29950495 0.4954623 0.54071593 0.436841831
## 6921 0.56097561 0.33415842 0.5093590 0.57001280 0.718727397
## 6922 0.40243902 0.36386139 0.5014180 0.37429137 0.481929259
## 6923 0.62195122 0.44059406 0.4835508 0.54908595 0.552752410
## 6924 0.43902439 0.41336634 0.5017016 0.49627383 0.596788086
## 6925 0.37804878 0.56188119 0.5008508 0.31629061 0.388563052
## 6926 0.37804878 0.56683168 0.4929098 0.35094601 0.452043717
## 6927 0.46341463 0.45297030 0.4739081 0.44623730 0.342100373
## 6928 0.53658537 0.49257426 0.4750425 0.58573247 0.362615415
## 6929 0.50000000 0.61881188 0.4619966 0.47845759 0.428064349
## 6930 0.65853659 0.39356436 0.4832672 0.52340304 0.427990960
## 6931 0.56097561 0.31683168 0.4926262 0.63298610 0.453849890
## 6932 0.34146341 0.48267327 0.4693704 0.31814629 0.427385152
## 6933 0.50000000 0.53465347 0.4917754 0.53159151 0.472411924
## 6934 0.28048780 0.60891089 0.4775950 0.37311214 0.394984741
## 6935 0.40243902 0.37871287 0.5014180 0.47764438 0.720149592
## 6936 0.47560976 0.59900990 0.4761770 0.63228401 0.523573489
## 6937 0.53658537 0.28217822 0.4722065 0.59614951 0.530258868
## 6938 0.56097561 0.61386139 0.4954623 0.45543635 0.553179541
## 6939 0.56097561 0.74752475 0.4832672 0.47198982 0.430052016
## 6940 0.46341463 0.51980198 0.4818491 0.53496551 0.669848277
## 6941 0.50000000 0.16831683 0.5090754 0.52005968 0.604383328
## 6942 0.53658537 0.69801980 0.4741917 0.39232976 0.351262889
## 6943 0.52439024 0.49752475 0.4804311 0.46253801 0.443081157
## 6944 0.21951220 0.52475248 0.4994328 0.15930620 0.497701229
## 6945 0.46341463 0.37871287 0.4892229 0.43596843 0.561681056
## 6946 0.47560976 0.57920792 0.4923426 0.51701898 0.439977153
## 6947 0.50000000 0.63118812 0.5059558 0.50044950 0.349894350
## 6948 0.37804878 0.40841584 0.4395916 0.43697136 0.356100216
## 6949 0.63414634 0.44059406 0.5008508 0.65140883 0.610413336
## 6950 0.70731707 0.19059406 0.4671015 0.55035093 0.489607182
## 6951 0.34146341 0.40099010 0.6108905 0.44729314 0.464547899
## 6952 0.35365854 0.43564356 0.3355077 0.48998832 0.453118272
## 6953 0.34146341 0.56435644 0.4889393 0.48733755 0.349566659
## 6954 0.43902439 0.49752475 0.4773114 0.59524363 0.598443288
## 6955 0.53658537 0.41336634 0.4639818 0.44254546 0.407231699
## 6956 0.62195122 0.38118812 0.5093590 0.56719202 0.408861814
## 6957 0.43902439 0.59405941 0.4690868 0.43357386 0.322783036
## 6958 0.34146341 0.47277228 0.4781622 0.37196525 0.147317361
## 6959 0.31707317 0.53712871 0.4968803 0.31029493 0.338097205
## 6960 0.47560976 0.39603960 0.4886557 0.56873611 0.470719053
## 6961 0.47560976 0.46039604 0.4617130 0.45610126 0.569367244
## 6962 0.50000000 0.29207921 0.4818491 0.51502650 0.401611668
## 6963 0.59756098 0.47772277 0.5113443 0.51530779 0.485323782
## 6964 0.46341463 0.44554455 0.5065230 0.52112254 0.638196787
## 6965 0.35365854 0.58168317 0.5005672 0.34103238 0.273590669
## 6966 0.41463415 0.62376238 0.4781622 0.43202241 0.547420729
## 6967 0.62195122 0.32178218 0.5226886 0.52847572 0.528318731
## 6968 0.47560976 0.38861386 0.4997164 0.53315011 0.576755875
## 6969 0.58536585 0.42821782 0.5113443 0.53399857 0.764141957
## 6970 0.36585366 0.72524752 0.4965967 0.29149491 0.383448822
## 6971 0.64634146 0.56188119 0.4690868 0.61779494 0.558116033
## 6972 0.28048780 0.43564356 0.5121951 0.32736899 0.598714919
## 6973 0.52439024 0.35643564 0.4824163 0.30252774 0.353135370
## 6974 0.41463415 0.58168317 0.4866704 0.52595891 0.465498053
```

```
## 6975 0.34146341 0.69059406 0.4617130 0.35032620 0.347568117
## 6976 0.26829268 0.54950495 0.4688032 0.47776979 0.407653802
## 6977 0.58536585 0.57425743 0.4648327 0.56833238 0.358907229
## 6978 0.50000000 0.48019802 0.4764606 0.45154521 0.290028570
## 6979 0.62195122 0.58910891 0.4897901 0.82908201 0.541144881
## 6980 0.37804878 0.60891089 0.5051049 0.50955466 0.354913332
## 6981 0.50000000 0.50000000 0.4761770 0.42234452 0.386197751
## 6982 0.40243902 0.62128713 0.4963131 0.42947452 0.539100101
## 6983 0.65853659 0.35643564 0.4594441 0.49477155 0.458726000
## 6984 0.46341463 0.56188119 0.5045377 0.53590475 0.580070335
## 6985 0.53658537 0.40594059 0.3003403 0.47270901 0.535319951
## 6986 0.50000000 0.69306931 0.4770278 0.43783225 0.254239486
## 6987 0.65853659 0.47029703 0.4690868 0.63548933 0.576575834
## 6988 0.37804878 0.25742574 0.4951787 0.48364837 0.541171184
## 6989 0.46341463 0.35891089 0.4858196 0.47779229 0.549845399
## 6990 0.52439024 0.39108911 0.4974475 0.53673312 0.324789351
## 6991 0.46341463 0.39356436 0.5085082 0.45288309 0.522868435
## 6992 0.34146341 0.43316832 0.4869541 0.54930894 0.673129002
## 6993 0.46341463 0.10891089 0.5147476 0.54670377 0.634729506
## 6994 0.78048780 0.64108911 0.4651163 0.76801116 0.378525696
## 6995 0.58536585 0.26237624 0.5119115 0.47329122 0.493555326
## 6996 0.40243902 0.45297030 0.4736245 0.55243405 0.284972878
## 6997 0.56097561 0.39108911 0.4940442 0.53804464 0.697672494
## 6998 0.28048780 0.42326733 0.4832672 0.39468039 0.520822683
## 6999 0.57317073 0.29455446 0.4622802 0.58289716 0.407920942
## 7000 0.43902439 0.38861386 0.4753261 0.37792712 0.484872934
## 7001 0.43902439 0.47029703 0.4750425 0.52566699 0.478158716
## 7002 0.34146341 0.55693069 0.4974475 0.38873126 0.325180536
## 7003 0.37804878 0.59653465 0.4869541 0.39956274 0.601218832
## 7004 0.50000000 0.52475248 0.5204197 0.55983806 0.665056309
## 7005 0.53658537 0.51732673 0.4968803 0.48095394 0.485360872
## 7006 0.62195122 0.33663366 0.4931934 0.61524107 0.453617056
## 7007 0.47560976 0.39356436 0.5085082 0.48415739 0.655382898
## 7008 0.43902439 0.42574257 0.4705048 0.61436418 0.421140768
## 7009 0.57317073 0.20544554 0.4741917 0.67105614 0.454541102
## 7010 0.71951220 0.56683168 0.4690868 0.63076693 0.487934010
## 7011 0.46341463 0.28217822 0.5068066 0.27309326 0.418356457
## 7012 0.50000000 0.50000000 0.4971639 0.51221308 0.573228961
## 7013 0.46341463 0.55940594 0.4937606 0.32812220 0.453666100
## 7014 0.56097561 0.49504950 0.4736245 0.64946310 0.645141921
## 7015 0.40243902 0.48267327 0.4829836 0.43044943 0.525880545
## 7016 0.46341463 0.44306931 0.6962564 0.50927434 0.442666077
## 7017 0.71951220 0.36386139 0.4662507 0.73637335 0.640261884
## 7018 0.43902439 0.35891089 0.4965967 0.37861102 0.463319211
## 7019 0.43902439 0.37871287 0.5377198 0.39445525 0.493123518
## 7020 0.50000000 0.56683168 0.4775950 0.45857564 0.407687474
## 7021 0.74390244 0.52227723 0.4951787 0.44838139 0.397403385
## 7022 0.28048780 0.64356436 0.4832672 0.24215676 0.584892937
## 7023 0.46341463 0.41831683 0.4798639 0.57768696 0.435816043
## 7024 0.41463415 0.44554455 0.4923426 0.48654825 0.706322386
## 7025 0.71951220 0.48267327 0.4883721 0.64536247 0.602603106
## 7026 0.74390244 0.32920792 0.4889393 0.60441023 0.644065801
## 7027 0.58536585 0.34405941 0.4741917 0.58868580 0.402546521
## 7028 0.65853659 0.36138614 0.4985820 0.62044292 0.647043268
## 7029 0.41463415 0.43069307 0.4826999 0.60524144 0.466352469
## 7030 0.41463415 0.35396040 0.4826999 0.61733634 0.494713310
## 7031 0.34146341 0.45544554 0.4744753 0.29344956 0.343758650
## 7032 0.50000000 0.42079208 0.4906410 0.44298908 0.650300944
```

```
## 7033 0.56097561 0.40346535 0.4722065 0.47271236 0.480580625
## 7034 0.68292683 0.39851485 0.4858196 0.67896809 0.584807637
## 7035 0.50000000 0.45792079 0.4934770 0.47086825 0.666013667
## 7036 0.37804878 0.55693069 0.4903573 0.54920817 0.453710529
## 7037 0.43902439 0.36386139 0.4900737 0.43964729 0.378700602
## 7038 0.58536585 0.55445545 0.4821327 0.52648551 0.339664600
## 7039 0.52439024 0.43811881 0.4849688 0.47839240 0.458141971
## 7040 0.46341463 0.54950495 0.4912082 0.38410719 0.465275957
## 7041 0.84146341 0.36633663 0.4909246 0.69716412 0.525737223
## 7042 0.43902439 0.49009901 0.4713556 0.55094827 0.456631500
## 7043 0.47560976 0.38366337 0.4895065 0.41969232 0.557532257
## 7044 0.50000000 0.24257426 0.4815655 0.46112397 0.361822412
## 7045 0.47560976 0.49752475 0.4869541 0.59396007 0.572889465
## 7046 0.56097561 0.46534653 0.4934770 0.52788136 0.471400484
## 7047 0.46341463 0.55940594 0.4838344 0.44967085 0.396116823
## 7048 0.46341463 0.49009901 0.4861032 0.46192547 0.379221232
## 7049 0.65853659 0.39356436 0.4861032 0.67804147 0.484974482
## 7050 0.62195122 0.36386139 0.4849688 0.50699433 0.406068660
## 7051 0.43902439 0.24257426 0.4577425 0.49655081 0.477761343
## 7052 0.37804878 0.38613861 0.4648327 0.52944266 0.745483824
## 7053 0.37804878 0.32673267 0.4844016 0.31825160 0.510960913
## 7054 0.58536585 0.38861386 0.4846852 0.55960956 0.554520203
## 7055 0.42682927 0.66584158 0.5411231 0.36195828 0.439977153
## 7056 0.31707317 0.74752475 0.4971639 0.55904721 0.571669627
## 7057 0.46341463 0.57425743 0.5000000 0.33417948 0.569749530
## 7058 0.65853659 0.46534653 0.4818491 0.47501956 0.265572085
## 7059 0.43902439 0.45049505 0.4699376 0.59080904 0.434701040
## 7060 0.50000000 0.62871287 0.4775950 0.43690628 0.269130851
## 7061 0.37804878 0.36881188 0.4707884 0.42809517 0.335151552
## 7062 0.62195122 0.48762376 0.4568917 0.62236222 0.320975890
## 7063 0.47560976 0.54455446 0.4792967 0.47132704 0.433429127
## 7064 0.46341463 0.35643564 0.4943279 0.45680414 0.601000649
## 7065 0.37804878 0.39851485 0.5493477 0.48335372 0.580054525
## 7066 0.37804878 0.42326733 0.4849688 0.55704244 0.587086189
## 7067 0.62195122 0.38861386 0.4841180 0.59488499 0.816918047
## 7068 0.52439024 0.69554455 0.4390244 0.62246225 0.325469289
## 7069 0.54878049 0.65594059 0.4858196 0.44699685 0.524379924
## 7070 0.41463415 0.53960396 0.4895065 0.42115129 0.478709750
## 7071 0.52439024 0.21039604 0.4929098 0.58012709 0.496325215
## 7072 0.34146341 0.61881188 0.5022689 0.39578600 0.459288573
## 7073 0.46341463 0.64603960 0.5382870 0.37973349 0.325094858
## 7074 0.47560976 0.20049505 0.4982984 0.58240165 0.592709344
## 7075 0.47560976 0.53217822 0.4710720 0.62664885 0.358911980
## 7076 0.56097561 0.65346535 0.4897901 0.54625738 0.449645874
## 7077 0.53658537 0.39851485 0.4917754 0.42757921 0.676245238
## 7078 0.52439024 0.55693069 0.4705048 0.45452554 0.305874971
## 7079 0.41463415 0.51980198 0.4395916 0.51423140 0.437400524
## 7080 0.47560976 0.59405941 0.4929098 0.49335839 0.508145321
## 7081 0.65853659 0.68564356 0.4767442 0.63886002 0.387864883
## 7082 0.56097561 0.31930693 0.5286444 0.38104702 0.532225199
## 7083 0.47560976 0.30693069 0.5076574 0.42926787 0.397496998
## 7084 0.43902439 0.67574257 0.4693704 0.44810476 0.438366199
## 7085 0.56097561 0.50000000 0.4883721 0.43511988 0.506707170
## 7086 0.43902439 0.40099010 0.4784458 0.55191463 0.529336126
## 7087 0.46341463 0.38613861 0.4829836 0.53927892 0.276214166
## 7088 0.50000000 0.59900990 0.5482133 0.54850364 0.567015273
## 7089 0.47560976 0.56683168 0.4909246 0.45753915 0.496072585
## 7090 0.52439024 0.49009901 0.4778786 0.60092356 0.370976654
```

```
## 7091 0.71951220 0.36663663 0.4651163 0.47451711 0.514103829
## 7092 0.59756098 0.49257426 0.5053885 0.38475239 0.344026714
## 7093 0.50000000 0.43316832 0.4685196 0.64530228 0.432736608
## 7094 0.52439024 0.44554455 0.4895065 0.55463980 0.495789800
## 7095 0.69512195 0.54702970 0.4605786 0.57704236 0.493575993
## 7096 0.70731707 0.51237624 0.4685196 0.60188066 0.477215329
## 7097 0.40243902 0.72029703 0.5005672 0.48532754 0.519028076
## 7098 0.34146341 0.66831683 0.4988656 0.47186953 0.455233811
## 7099 0.68292683 0.37376238 0.4733409 0.47475674 0.406112327
## 7100 0.46341463 0.46039604 0.4832672 0.38299412 0.476401528
## 7101 0.37804878 0.44801980 0.4668179 0.52685938 0.500657257
## 7102 0.46341463 0.39356436 0.5093590 0.53402593 0.430524787
## 7103 0.45121951 0.42326733 0.4673851 0.59470576 0.428909399
## 7104 0.52439024 0.28465347 0.4622802 0.50921243 0.452464615
## 7105 0.52439024 0.41089109 0.5002836 0.46732129 0.442438479
## 7106 0.78048780 0.59653465 0.4778786 0.67216398 0.694517393
## 7107 0.71951220 0.30445545 0.4673851 0.64910530 0.473652187
## 7108 0.37804878 0.64356436 0.4929098 0.61512151 0.560232604
## 7109 0.34146341 0.44059406 0.4980147 0.48750116 0.521901500
## 7110 0.35365854 0.61386139 0.5144640 0.50894608 0.520898857
## 7111 0.59756098 0.64851485 0.4554736 0.62867996 0.333727977
## 7112 0.28048780 0.65346535 0.5062394 0.44721663 0.607134694
## 7113 0.47560976 0.54455446 0.4835508 0.52392424 0.442864572
## 7114 0.47560976 0.51980198 0.4866704 0.55935230 0.463189148
## 7115 0.28048780 0.65594059 0.5051049 0.47437707 0.573656244
## 7116 0.59756098 0.43316832 0.4880885 0.48589386 0.488334371
## 7117 0.62195122 0.50990099 0.5011344 0.59957810 0.458896065
## 7118 0.40243902 0.47524752 0.4872377 0.50278705 0.554659651
## 7119 0.50000000 0.52475248 0.4943279 0.39995226 0.434599702
## 7120 0.24390244 0.34405941 0.5000000 0.21950717 0.489114988
## 7121 0.47560976 0.46534653 0.4917754 0.48880732 0.549385220
## 7122 0.31707317 0.25742574 0.4367555 0.41593532 0.567995170
## 7123 0.50000000 0.60396040 0.4790130 0.51441871 0.468724400
## 7124 0.62195122 0.51485149 0.4764606 0.51805675 0.217547648
## 7125 0.40243902 0.50990099 0.5167328 0.51300250 0.683909604
## 7126 0.62195122 0.75000000 0.5258083 0.49169153 0.219867477
## 7127 0.42682927 0.68811881 0.4929098 0.52032450 0.370263087
## 7128 0.68292683 0.30198020 0.4929098 0.66334152 0.487934010
## 7129 0.62195122 0.29950495 0.4895065 0.66091853 0.388670929
## 7130 0.56097561 0.44306931 0.4560408 0.57459095 0.505348798
## 7131 0.43902439 0.39108911 0.4892229 0.43889965 0.617360431
## 7132 0.50000000 0.33910891 0.4826999 0.47520187 0.447703535
## 7133 0.43902439 0.39356436 0.4897901 0.48567089 0.459328165
## 7134 0.43902439 0.24257426 0.4390244 0.38290578 0.438818775
## 7135 0.40243902 0.56930693 0.4914918 0.37249193 0.593875066
## 7136 0.50000000 0.49009901 0.5351673 0.37423716 0.391424678
## 7137 0.43902439 0.55940594 0.4563244 0.44589521 0.666628636
## 7138 0.50000000 0.54950495 0.5025525 0.40080654 0.482210181
## 7139 0.52439024 0.66089109 0.4844016 0.62835688 0.446025766
## 7140 0.43902439 0.26237624 0.4378900 0.40879901 0.393441240
## 7141 0.47560976 0.37128713 0.4427113 0.50689113 0.641076789
## 7142 0.56097561 0.42079208 0.4900737 0.52573482 0.627793592
## 7143 0.43902439 0.50495050 0.4342031 0.44029224 0.347832610
## 7144 0.56097561 0.51237624 0.5045377 0.42879698 0.629808503
## 7145 0.41463415 0.38861386 0.4200227 0.43613120 0.394321257
## 7146 0.56097561 0.42574257 0.4826999 0.46368800 0.328899459
## 7147 0.53658537 0.55198020 0.4878049 0.59288241 0.338713797
## 7148 0.56097561 0.48514851 0.4917754 0.62227836 0.359477937
```

```
## 7149 0.46341463 0.47277228 0.4846852 0.29425084 0.341716268
## 7150 0.46341463 0.66584158 0.4943279 0.55565265 0.500522209
## 7151 0.59756098 0.58910891 0.4948951 0.42138611 0.615481568
## 7152 0.52439024 0.62376238 0.4673851 0.43642488 0.214981704
## 7153 0.47560976 0.21287129 0.4861032 0.53085640 0.401239238
## 7154 0.39024390 0.63366337 0.4801475 0.50521393 0.485139514
## 7155 0.28048780 0.57673267 0.4878049 0.39981554 0.549703147
## 7156 0.53658537 0.32673267 0.4421441 0.45830857 0.314505125
## 7157 0.65853659 0.31930693 0.4741917 0.68483412 0.444832109
## 7158 0.35365854 0.51980198 0.4838344 0.45375002 0.480219695
## 7159 0.46341463 0.40594059 0.4798639 0.26467424 0.338915874
## 7160 0.50000000 0.36633663 0.4861032 0.45513775 0.340624012
## 7161 0.41463415 0.26485149 0.5017016 0.54666862 0.575381289
## 7162 0.58536585 0.58910891 0.4937606 0.44172141 0.539532228
## 7163 0.59756098 0.20049505 0.4943279 0.48167268 0.316983613
## 7164 0.56097561 0.52722772 0.4920590 0.64151710 0.405099439
## 7165 0.50000000 0.52227723 0.4798639 0.66426632 0.404151984
## 7166 0.43902439 0.59653465 0.4914918 0.49355811 0.534130656
## 7167 0.62195122 0.27475248 0.4985820 0.53435060 0.419812287
## 7168 0.56097561 0.54950495 0.4809983 0.58708152 0.500498145
## 7169 0.58536585 0.49009901 0.4878049 0.50265038 0.459032667
## 7170 0.56097561 0.54950495 0.4914918 0.67417894 0.575736156
## 7171 0.52439024 0.55940594 0.4946115 0.47849451 0.407405128
## 7172 0.56097561 0.28217822 0.4688032 0.60641828 0.633487277
## 7173 0.43902439 0.33910891 0.5056721 0.47002536 0.396390634
## 7174 0.43902439 0.38613861 0.4809983 0.33114266 0.366645449
## 7175 0.62195122 0.67574257 0.4889393 0.48266298 0.446828133
## 7176 0.53658537 0.58415842 0.4705048 0.50574601 0.473802649
## 7177 0.43902439 0.46287129 0.4761770 0.56298603 0.477453707
## 7178 0.64634146 0.40594059 0.4792967 0.67867040 0.685323831
## 7179 0.40243902 0.68316832 0.4835508 0.40913198 0.598050525
## 7180 0.43902439 0.34158416 0.4965967 0.35559062 0.304940366
## 7181 0.07317073 0.59900990 0.5192853 0.26780996 0.451848750
## 7182 0.50000000 0.47029703 0.4812819 0.51611620 0.608858851
## 7183 0.36585366 0.51485149 0.4849688 0.40593838 0.485743388
## 7184 0.57317073 0.56188119 0.4767442 0.58558037 0.315511876
## 7185 0.59756098 0.37376238 0.5127623 0.50344469 0.470338161
## 7186 0.43902439 0.39603960 0.4634146 0.45630448 0.339218433
## 7187 0.50000000 0.40346535 0.4963131 0.44632242 0.370371077
## 7188 0.65853659 0.27227723 0.4685196 0.80872314 0.500585895
## 7189 0.56097561 0.43811881 0.4940442 0.53887156 0.564995584
## 7190 0.37804878 0.41584158 0.4571753 0.41750475 0.382601483
## 7191 0.58536585 0.52227723 0.4835508 0.45145930 0.463904015
## 7192 0.56097561 0.49752475 0.4895065 0.63907959 0.567175781
## 7193 0.47560976 0.40346535 0.4906410 0.55075875 0.420551555
## 7194 0.43902439 0.60643564 0.5017016 0.41529371 0.319736867
## 7195 0.37804878 0.67574257 0.4965967 0.38627353 0.555121781
## 7196 0.62195122 0.40594059 0.4750425 0.45957785 0.416053395
## 7197 0.37804878 0.48514851 0.5005672 0.37726671 0.533676011
## 7198 0.58536585 0.41336634 0.4483834 0.48488923 0.405693876
## 7199 0.43902439 0.43811881 0.5663642 0.50889260 0.289376644
## 7200 0.50000000 0.55445545 0.5102099 0.48252509 0.560736703
## 7201 0.71951220 0.36138614 0.4662507 0.64245447 0.483283648
## 7202 0.24390244 0.34405941 0.4980147 0.22243741 0.488241203
## 7203 0.46341463 0.52970297 0.4679524 0.44148349 0.550333046
## 7204 0.40243902 0.50495050 0.4506523 0.29123799 0.469845020
## 7205 0.46341463 0.56930693 0.5022689 0.48141208 0.581489913
## 7206 0.41463415 0.53217822 0.4378900 0.60151820 0.437518355
```

```
## 7207 0.42682927 0.34900990 0.4889393 0.58773317 0.677053285
## 7208 0.43902439 0.31930693 0.4832672 0.43262394 0.584611765
## 7209 0.40243902 0.45049505 0.5096427 0.40944437 0.365846041
## 7210 0.68292683 0.42079208 0.4897901 0.58569134 0.531646672
## 7211 0.34146341 0.46534653 0.4724901 0.59030978 0.472677080
## 7212 0.40243902 0.32920792 0.5068066 0.34808725 0.729344275
## 7213 0.47560976 0.58415842 0.4943279 0.37247507 0.360600287
## 7214 0.46341463 0.54950495 0.4872377 0.55001634 0.263599725
## 7215 0.56097561 0.57920792 0.4753261 0.62605071 0.484317260
## 7216 0.59756098 0.55693069 0.4872377 0.53289698 0.501026304
## 7217 0.74390244 0.33168317 0.4872377 0.70897800 0.775588741
## 7218 0.31707317 0.54950495 0.4931934 0.50734446 0.516620918
## 7219 0.65853659 0.42574257 0.4937606 0.53276624 0.491535490
## 7220 0.62195122 0.21534653 0.4929098 0.53626741 0.458609398
## 7221 0.56097561 0.14108911 0.4773114 0.61141259 0.586956038
## 7222 0.41463415 0.58415842 0.4761770 0.44354643 0.463020052
## 7223 0.47560976 0.44306931 0.5000000 0.45411805 0.535558808
## 7224 0.37804878 0.42821782 0.4773114 0.32595008 0.326147418
## 7225 0.37804878 0.55445545 0.4444129 0.42156018 0.478374973
## 7226 0.35365854 0.61386139 0.5107771 0.50825057 0.521934664
## 7227 0.56097561 0.34653465 0.4412933 0.47222383 0.430614148
## 7228 0.46341463 0.46039604 0.4994328 0.35191619 0.532162980
## 7229 0.58536585 0.42574257 0.4512195 0.57435853 0.413654815
## 7230 0.59756098 0.15099010 0.4773114 0.52111262 0.353848576
## 7231 0.71951220 0.41336634 0.4557572 0.58491372 0.344900383
## 7232 0.50000000 0.51237624 0.4707884 0.47004734 0.409344705
## 7233 0.59756098 0.31683168 0.5011344 0.47769055 0.479067022
## 7234 0.40243902 0.44554455 0.4662507 0.62023489 0.600584164
## 7235 0.42682927 0.55198020 0.4991492 0.33376800 0.395673667
## 7236 0.53658537 0.65594059 0.4693704 0.58849198 0.435612825
## 7237 0.37804878 0.40099010 0.4645491 0.41265894 0.412548499
## 7238 0.50000000 0.56188119 0.4923426 0.60314548 0.552260755
## 7239 0.56097561 0.35396040 0.4784458 0.48271888 0.496943805
## 7240 0.78048780 0.44554455 0.4557572 0.58564171 0.330548325
## 7241 0.36585366 0.69059406 0.5243902 0.35614613 0.405014843
## 7242 0.78048780 0.54702970 0.4597277 0.83330401 0.439410636
## 7243 0.30487805 0.56188119 0.4515031 0.34477716 0.426370665
## 7244 0.43902439 0.58663366 0.4656835 0.53683059 0.198232264
## 7245 0.71951220 0.17326733 0.4787294 0.66834366 0.619304420
## 7246 0.56097561 0.34900990 0.5090754 0.46251364 0.452212613
## 7247 0.40243902 0.57673267 0.4532048 0.54402673 0.377968464
## 7248 0.52439024 0.38613861 0.4943279 0.49280945 0.625664192
## 7249 0.53658537 0.42079208 0.4912082 0.46454153 0.537223664
## 7250 0.40243902 0.46782178 0.4665343 0.36029137 0.410707029
## 7251 0.59756098 0.59158416 0.4756098 0.57757672 0.415058394
## 7252 0.37804878 0.66336634 0.4634146 0.36136695 0.327414244
## 7253 0.62195122 0.47524752 0.5121951 0.64060507 0.585791920
## 7254 0.62195122 0.37623762 0.4645491 0.58686019 0.360014483
## 7255 0.50000000 0.46039604 0.4784458 0.42809470 0.299671981
## 7256 0.50000000 0.55445545 0.4798639 0.37886475 0.483006765
## 7257 0.59756098 0.30940594 0.4994328 0.50475087 0.424606132
## 7258 0.41463415 0.48267327 0.4804311 0.42800369 0.425154488
## 7259 0.43902439 0.63118812 0.4795803 0.37270684 0.421870627
## 7260 0.41463415 0.53217822 0.4809983 0.49239138 0.576246718
## 7261 0.64634146 0.61386139 0.4900737 0.56326723 0.416822769
## 7262 0.68292683 0.41831683 0.4719229 0.51455239 0.405930139
## 7263 0.42682927 0.64108911 0.5144640 0.41918140 0.541859523
## 7264 0.34146341 0.37871287 0.4631310 0.28362519 0.330475664
```

```
## 7265 0.74390244 0.33910891 0.4869541 0.55181826 0.677473616
## 7266 0.62195122 0.35396040 0.5076574 0.52530184 0.448991652
## 7267 0.47560976 0.58663366 0.4895065 0.39042217 0.500412166
## 7268 0.71951220 0.38861386 0.5022689 0.74496978 0.825730677
## 7269 0.37804878 0.55693069 0.4801475 0.39802626 0.482633900
## 7270 0.62195122 0.34405941 0.4775950 0.59556004 0.493746962
## 7271 0.50000000 0.24009901 0.4818491 0.45736528 0.359092216
## 7272 0.53658537 0.64356436 0.4702212 0.54998030 0.511225520
## 7273 0.59756098 0.39851485 0.4980147 0.63380009 0.570129215
## 7274 0.40243902 0.58168317 0.4909246 0.41428553 0.479997943
## 7275 0.58536585 0.62128713 0.4906410 0.52305732 0.683613512
## 7276 0.25609756 0.70049505 0.4895065 0.35797609 0.315818316
## 7277 0.31707317 0.55693069 0.4778786 0.34340710 0.340758035
## 7278 0.58536585 0.34900990 0.4784458 0.59702794 0.451267116
## 7279 0.59756098 0.50990099 0.4866704 0.57990047 0.457512078
## 7280 0.78048780 0.30693069 0.4863868 0.63079432 0.468982919
## 7281 0.34146341 0.67821782 0.5158820 0.34011335 0.513429197
## 7282 0.52439024 0.38118812 0.4705048 0.56854595 0.294940716
## 7283 0.37804878 0.50000000 0.4832672 0.42137658 0.494317320
## 7284 0.65853659 0.38118812 0.4909246 0.60407334 0.680079849
## 7285 0.52439024 0.47029703 0.4855360 0.57525981 0.468332966
## 7286 0.78048780 0.47277228 0.4571753 0.73201406 0.606282086
## 7287 0.50000000 0.52722772 0.4866704 0.34756043 0.314206035
## 7288 0.56097561 0.69554455 0.4846852 0.52324547 0.473546953
## 7289 0.59756098 0.43564356 0.4943279 0.61700990 0.466096310
## 7290 0.50000000 0.52475248 0.4662507 0.58058023 0.488861016
## 7291 0.50000000 0.42326733 0.4730573 0.48088043 0.494328257
## 7292 0.40243902 0.34158416 0.4580261 0.50458458 0.487124660
## 7293 0.43902439 0.55693069 0.4855360 0.34936626 0.647179079
## 7294 0.53658537 0.42079208 0.4795803 0.51087219 0.361168052
## 7295 0.43902439 0.52475248 0.4909246 0.43296432 0.488225849
## 7296 0.31707317 0.68316832 0.4886557 0.47487343 0.405670448
## 7297 0.64634146 0.23762376 0.4917754 0.52860788 0.507363243
## 7298 0.40243902 0.40841584 0.4897901 0.49099714 0.409672770
## 7299 0.58536585 0.30445545 0.5138968 0.63039093 0.534520671
## 7300 0.34146341 0.43316832 0.4897901 0.55005921 0.672598415
## 7301 0.39024390 0.28960396 0.4886557 0.60008693 0.706544359
## 7302 0.50000000 0.48267327 0.4551900 0.51115690 0.460281694
## 7303 0.50000000 0.41089109 0.5777085 0.48179916 0.698401652
## 7304 0.59756098 0.35396040 0.4798639 0.58331779 0.453645011
## 7305 0.40243902 0.46534653 0.4991492 0.46594581 0.246017164
## 7306 0.40243902 0.63366337 0.4710720 0.51065361 0.455019841
## 7307 0.65853659 0.47524752 0.4551900 0.61805450 0.484427283
## 7308 0.74390244 0.58415842 0.5124787 0.85650494 0.470684074
## 7309 0.47560976 0.72524752 0.4781622 0.42904788 0.437261122
## 7310 0.50000000 0.40099010 0.5000000 0.52045568 0.409224593
## 7311 0.65853659 0.52227723 0.4861032 0.64304472 0.503518735
## 7312 0.62195122 0.46782178 0.4994328 0.58509151 0.436136452
## 7313 0.40243902 0.60891089 0.4753261 0.52748650 0.403713340
## 7314 0.47560976 0.25742574 0.4824163 0.47351806 0.428477821
## 7315 0.56097561 0.63118812 0.5212706 0.43726390 0.345505319
## 7316 0.43902439 0.56930693 0.4685196 0.48304360 0.329052554
## 7317 0.78048780 0.64108911 0.4594441 0.76221483 0.372625454
## 7318 0.58536585 0.43564356 0.4795803 0.56874431 0.635108759
## 7319 0.43902439 0.70792079 0.5056721 0.33331761 0.398925009
## 7320 0.31707317 0.32178218 0.4832672 0.32932573 0.366971061
## 7321 0.62195122 0.62623762 0.4838344 0.45049109 0.341459345
## 7322 0.59756098 0.46782178 0.4775950 0.50594022 0.353059448
```

```
## 7323 0.28048780 0.66336634 0.4897901 0.36010136 0.368637340
## 7324 0.70731707 0.49257426 0.4588769 0.66427016 0.456191138
## 7325 0.53658537 0.39603960 0.4892229 0.62452403 0.679555483
## 7326 0.56097561 0.52227723 0.5014180 0.37757663 0.653319949
## 7327 0.53658537 0.54455446 0.4574589 0.48036052 0.512699982
## 7328 0.56097561 0.79702970 0.5136132 0.39331639 0.201334699
## 7329 0.62195122 0.69306931 0.4795803 0.60438195 0.440867116
## 7330 0.56097561 0.34405941 0.4821327 0.50360861 0.489383790
## 7331 0.37804878 0.27475248 0.4583097 0.42455381 0.406635719
## 7332 0.53658537 0.29207921 0.4878049 0.62332823 0.568696713
## 7333 0.68292683 0.74752475 0.5062394 0.70581310 0.353939703
## 7334 0.52439024 0.66089109 0.4920590 0.41152256 0.215938103
## 7335 0.56097561 0.51237624 0.4906410 0.41355403 0.664189617
## 7336 0.78048780 0.54455446 0.4693704 0.82009753 0.438949506
## 7337 0.68292683 0.39603960 0.4951787 0.55304993 0.631891164
## 7338 0.62195122 0.32673267 0.4937606 0.64810804 0.395473190
## 7339 0.56097561 0.51980198 0.4892229 0.54963447 0.419164708
## 7340 0.56097561 0.44554455 0.4929098 0.48890856 0.309328067
## 7341 0.50000000 0.28217822 0.4835508 0.54104353 0.359529069
## 7342 0.29268293 0.69801980 0.4965967 0.35423360 0.612924723
## 7343 0.74390244 0.52227723 0.4926262 0.44676936 0.400357488
## 7344 0.56097561 0.44801980 0.4741917 0.55851985 0.632476245
## 7345 0.62195122 0.50990099 0.5192853 0.43876521 0.385596354
## 7346 0.50000000 0.55693069 0.4835508 0.60467690 0.315181096
## 7347 0.47560976 0.31435644 0.4432785 0.46339309 0.428594943
## 7348 0.70731707 0.37623762 0.4943279 0.67817442 0.443252196
## 7349 0.18292683 0.57178218 0.4980147 0.23136853 0.595124707
## 7350 0.62195122 0.44554455 0.5031197 0.59134543 0.443510970
## 7351 0.34146341 0.60643564 0.4889393 0.33816367 0.447080161
## 7352 0.62195122 0.39851485 0.4773114 0.54550299 0.599608193
## 7353 0.37804878 0.43811881 0.5070902 0.43862541 0.179053678
## 7354 0.50000000 0.38613861 0.4943279 0.40270604 0.522244606
## 7355 0.64634146 0.40841584 0.4861032 0.54017839 0.344436079
## 7356 0.40243902 0.62623762 0.4889393 0.43657175 0.473557266
## 7357 0.47560976 0.52970297 0.4636982 0.37648085 0.468951087
## 7358 0.47560976 0.57920792 0.4832672 0.53083777 0.431726511
## 7359 0.43902439 0.39108911 0.4801475 0.37753880 0.461025489
## 7360 0.59756098 0.49009901 0.4617130 0.61598396 0.522622803
## 7361 0.37804878 0.49504950 0.4778786 0.45514863 0.383136534
## 7362 0.46341463 0.41336634 0.4784458 0.54026684 0.369869387
## 7363 0.30487805 0.44801980 0.4960295 0.36933512 0.464671769
## 7364 0.46341463 0.55445545 0.4463982 0.52156998 0.373330040
## 7365 0.47560976 0.42574257 0.4906410 0.58013434 0.527284336
## 7366 0.46341463 0.56683168 0.4878049 0.43531551 0.349148720
## 7367 0.50000000 0.53712871 0.4832672 0.57250584 0.437742934
## 7368 0.50000000 0.55693069 0.4639818 0.55698942 0.241432174
## 7369 0.43902439 0.57178218 0.4568917 0.40900706 0.442155492
## 7370 0.37804878 0.42821782 0.5065230 0.56573278 0.413909695
## 7371 0.37804878 0.32920792 0.5087918 0.48964289 0.723027232
## 7372 0.63414634 0.31930693 0.5002836 0.53666725 0.600126955
## 7373 0.71951220 0.67574257 0.5136132 0.74629027 0.526042962
## 7374 0.62195122 0.34158416 0.4557572 0.68321209 0.678426167
## 7375 0.37804878 0.34158416 0.4798639 0.61504877 0.564619536
## 7376 0.43902439 0.45297030 0.4551900 0.60411604 0.438863266
## 7377 0.34146341 0.55693069 0.4963131 0.36591836 0.281852027
## 7378 0.56097561 0.39356436 0.4688032 0.72314980 0.370221725
## 7379 0.43902439 0.35891089 0.4895065 0.42239090 0.259326663
## 7380 0.80487805 0.69801980 0.5082246 0.86231139 0.478508723
```

490

```
## 7381 0.62195122 0.25742574 0.5093590 0.46919639 0.561623814
## 7382 0.31707317 0.43069307 0.5059558 0.31758561 0.338091794
## 7383 0.46341463 0.56930693 0.4968803 0.46499075 0.417243384
## 7384 0.40243902 0.63118812 0.4946115 0.30442347 0.332224919
## 7385 0.40243902 0.52722772 0.4741917 0.33801454 0.299962306
## 7386 0.43902439 0.28960396 0.4478162 0.31369334 0.472533061
## 7387 0.75609756 0.25742574 0.4781622 0.61670123 0.563556548
## 7388 0.78048780 0.58415842 0.4946115 0.89355282 0.489200097
## 7389 0.43902439 0.49009901 0.4702212 0.50853871 0.319523541
## 7390 0.53658537 0.48514851 0.4673851 0.68238826 0.366277808
## 7391 0.50000000 0.51980198 0.4775950 0.53318034 0.471993106
## 7392 0.62195122 0.45049505 0.4963131 0.51632916 0.371447656
## 7393 0.58536585 0.30940594 0.4829836 0.54599707 0.596286533
## 7394 0.50000000 0.24752475 0.5204197 0.43393914 0.525089773
## 7395 0.43902439 0.41831683 0.5235394 0.36344505 0.495613209
## 7396 0.47560976 0.51980198 0.4812819 0.69643086 0.637632989
## 7397 0.68292683 0.29455446 0.4804311 0.66531248 0.513811054
## 7398 0.43902439 0.66089109 0.4722065 0.59095744 0.530883323
## 7399 0.63414634 0.34158416 0.4875213 0.65525159 0.666360265
## 7400 0.56097561 0.52475248 0.5051049 0.37714025 0.652775880
## 7401 0.64634146 0.49504950 0.4926262 0.52468462 0.320973967
## 7402 0.43902439 0.34900990 0.4951787 0.41312680 0.384995012
## 7403 0.43902439 0.52227723 0.4739081 0.60561324 0.449179792
## 7404 0.47560976 0.63861386 0.4625638 0.56457067 0.596379269
## 7405 0.47560976 0.43316832 0.4838344 0.67421042 0.485484867
## 7406 0.62195122 0.69306931 0.4812819 0.60462073 0.439192353
## 7407 0.56097561 0.24009901 0.5161656 0.37505522 0.610449977
## 7408 0.43902439 0.42574257 0.4880885 0.34719191 0.625048557
## 7409 0.64634146 0.38366337 0.5104935 0.50902772 0.384691824
## 7410 0.63414634 0.32425743 0.4560408 0.64573609 0.440432471
## 7411 0.43902439 0.70544554 0.4668179 0.53632902 0.545320172
## 7412 0.37804878 0.26980198 0.4946115 0.44076031 0.388184493
## 7413 0.47560976 0.38366337 0.5209870 0.70448675 0.722758623
## 7414 0.40243902 0.31683168 0.4756098 0.44803805 0.432749938
## 7415 0.47560976 0.38366337 0.5085082 0.50615945 0.696848097
## 7416 0.31707317 0.39603960 0.4671015 0.58592216 0.694249481
## 7417 0.37804878 0.42574257 0.4897901 0.46554018 0.467850129
## 7418 0.59756098 0.32425743 0.4985820 0.56654252 0.300012843
## 7419 0.56097561 0.50247525 0.4931934 0.60229900 0.444040387
## 7420 0.56097561 0.55940594 0.5294952 0.54887169 0.270832023
## 7421 0.50000000 0.48267327 0.4858196 0.57111872 0.535294070
## 7422 0.59756098 0.39851485 0.4872377 0.46058308 0.382668166
## 7423 0.47560976 0.45544554 0.4659671 0.46965643 0.314558175
## 7424 0.41463415 0.65594059 0.4946115 0.45411949 0.353587227
## 7425 0.31707317 0.55693069 0.4914918 0.33290728 0.610088028
## 7426 0.57317073 0.48514851 0.4821327 0.59120793 0.583929264
## 7427 0.50000000 0.50000000 0.4554736 0.54556994 0.508280682
## 7428 0.53658537 0.58663366 0.4832672 0.39480277 0.113245337
## 7429 0.47560976 0.53712871 0.4988656 0.59299898 0.468793765
## 7430 0.65853659 0.51732673 0.4515031 0.64394361 0.449507041
## 7431 0.63414634 0.63366337 0.4685196 0.44246282 0.418137061
## 7432 0.53658537 0.44059406 0.5036869 0.47272177 0.438104078
## 7433 0.52439024 0.52227723 0.5289280 0.30515313 0.427125969
## 7434 0.53658537 0.49504950 0.4801475 0.50639945 0.398525436
## 7435 0.40243902 0.34158416 0.4804311 0.47252503 0.523060304
## 7436 0.25609756 0.25247525 0.4937606 0.17907916 0.577850075
## 7437 0.28048780 0.51237624 0.4832672 0.35434179 0.248683264
## 7438 0.63414634 0.32178218 0.4994328 0.53847021 0.599748241
```

```
## 7439 0.37804878 0.60643564 0.4965967 0.44246635 0.556674469
## 7440 0.50000000 0.72277228 0.4906410 0.49589872 0.531565346
## 7441 0.31707317 0.29950495 0.4835508 0.44302115 0.526556198
## 7442 0.43902439 0.45544554 0.5053885 0.39003452 0.483546308
## 7443 0.59756098 0.60396040 0.4727737 0.55297716 0.343740749
## 7444 0.46341463 0.44801980 0.4716393 0.45756654 0.277025062
## 7445 0.31707317 0.50000000 0.4600113 0.34881562 0.662410548
## 7446 0.56097561 0.21782178 0.5014180 0.58211735 0.430496505
## 7447 0.46341463 0.37871287 0.4900737 0.43410962 0.565737184
## 7448 0.52439024 0.41584158 0.4741917 0.47863325 0.510793275
## 7449 0.31707317 0.70544554 0.4844016 0.47699607 0.683020640
## 7450 0.50000000 0.35643564 0.4892229 0.49028882 0.533776938
## 7451 0.34146341 0.56188119 0.4781622 0.39935125 0.438010539
## 7452 0.58536585 0.58415842 0.4645491 0.55803088 0.351225114
## 7453 0.62195122 0.39851485 0.4963131 0.48688465 0.512687170
## 7454 0.48780488 0.48514851 0.4639818 0.51545208 0.397981538
## 7455 0.40243902 0.54455446 0.4835508 0.44793269 0.643635970
## 7456 0.53658537 0.70049505 0.4702212 0.66401875 0.503018312
## 7457 0.43902439 0.52227723 0.4809983 0.43077100 0.486915146
## 7458 0.31707317 0.43069307 0.5124787 0.36883907 0.576458893
## 7459 0.47560976 0.47772277 0.4705048 0.54250823 0.417834493
## 7460 0.50000000 0.54455446 0.4648327 0.37950349 0.196734756
## 7461 0.75609756 0.33663366 0.4656835 0.79297621 0.394905194
## 7462 0.47560976 0.31930693 0.4855360 0.62702493 0.602925013
## 7463 0.28048780 0.61138614 0.4832672 0.37870680 0.407449303
## 7464 0.46341463 0.56435644 0.4931934 0.44524386 0.514971557
## 7465 0.47560976 0.50990099 0.4861032 0.55477858 0.517397597
## 7466 0.64634146 0.41584158 0.4903573 0.55979967 0.473616232
## 7467 0.56097561 0.57673267 0.4727737 0.43126241 0.278836405
## 7468 0.50000000 0.49257426 0.4835508 0.43274935 0.432347390
## 7469 0.48780488 0.64603960 0.4648327 0.41112468 0.345451547
## 7470 0.68292683 0.47524752 0.4724901 0.61452343 0.569279442
## 7471 0.43902439 0.38118812 0.4798639 0.38683673 0.382889444
## 7472 0.47560976 0.43811881 0.4948951 0.53442100 0.488750755
## 7473 0.18292683 0.57178218 0.4971639 0.23081083 0.604323676
## 7474 0.31707317 0.44306931 0.4792967 0.49421887 0.577323834
## 7475 0.31707317 0.45049505 0.4747589 0.35736891 0.465352639
## 7476 0.74390244 0.61386139 0.4537720 0.61577965 0.413171555
## 7477 0.47560976 0.60643564 0.4773114 0.63322572 0.545614450
## 7478 0.37804878 0.51237624 0.4863868 0.48760498 0.453498751
## 7479 0.53658537 0.49504950 0.4855360 0.65187985 0.428151523
## 7480 0.41463415 0.58663366 0.4784458 0.44728079 0.460654371
## 7481 0.52439024 0.59405941 0.4878049 0.53840853 0.310643505
## 7482 0.31707317 0.47029703 0.4878049 0.37992356 0.280329472
## 7483 0.40243902 0.43811881 0.5360182 0.43051927 0.492812995
## 7484 0.50000000 0.35396040 0.4974475 0.57059732 0.352029665
## 7485 0.52439024 0.54702970 0.4773114 0.46747014 0.242370887
## 7486 0.65853659 0.35891089 0.4878049 0.66045599 0.492598793
## 7487 0.53658537 0.36633663 0.4985820 0.47732234 0.565636259
## 7488 0.29268293 0.26980198 0.5022689 0.58107712 0.658980132
## 7489 0.56097561 0.52970297 0.4472490 0.57150128 0.508779257
## 7490 0.37804878 0.55445545 0.4705048 0.52405302 0.356969526
## 7491 0.52439024 0.44306931 0.4849688 0.44680480 0.455407840
## 7492 0.50000000 0.45792079 0.4741917 0.53973406 0.483083093
## 7493 0.42682927 0.47524752 0.4897901 0.43009480 0.458217363
## 7494 0.78048780 0.45297030 0.4855360 0.52519726 0.302684367
## 7495 0.56097561 0.41831683 0.4645491 0.57421375 0.603639442
## 7496 0.43902439 0.54207921 0.4682360 0.32329255 0.185177616
```

```
## 7497 0.52439024 0.49257426 0.4781622 0.44680918 0.357241095
## 7498 0.47560976 0.55198020 0.4753261 0.47702942 0.625236326
## 7499 0.50000000 0.43316832 0.4940442 0.58347631 0.564515810
## 7500 0.50000000 0.49009901 0.4809983 0.43252020 0.428619940
## 7501 0.62195122 0.38613861 0.4812819 0.46463292 0.360854407
## 7502 0.56097561 0.41584158 0.4914918 0.54104189 0.485549222
## 7503 0.46341463 0.74504950 0.4710720 0.49335600 0.501098637
## 7504 0.50000000 0.28712871 0.4929098 0.48996727 0.604751994
## 7505 0.50000000 0.61633663 0.4710720 0.59795153 0.303226084
## 7506 0.37804878 0.54950495 0.4841180 0.23266079 0.330984297
## 7507 0.59756098 0.50000000 0.4665343 0.62135492 0.531987884
## 7508 0.43902439 0.36881188 0.4960295 0.62177115 0.591909964
## 7509 0.59756098 0.37623762 0.4923426 0.52556852 0.560305266
## 7510 0.50000000 0.43811881 0.4892229 0.43001543 0.434235913
## 7511 0.37804878 0.34653465 0.5031197 0.47507938 0.502145266
## 7512 0.53658537 0.19306931 0.4994328 0.65116046 0.654250141
## 7513 0.60975610 0.32920792 0.4869541 0.47100042 0.447047715
## 7514 0.43902439 0.61881188 0.4889393 0.34619900 0.325711119
## 7515 0.50000000 0.56683168 0.4849688 0.41853678 0.479657584
## 7516 0.43902439 0.34158416 0.4951787 0.48558765 0.761288093
## 7517 0.68292683 0.55693069 0.4568917 0.54423107 0.355919781
## 7518 0.65853659 0.42079208 0.4719229 0.56169423 0.169067853
## 7519 0.46341463 0.46782178 0.4770278 0.43593965 0.600298378
## 7520 0.25609756 0.32920792 0.5243902 0.53457385 0.555909780
## 7521 0.34146341 0.22524752 0.5161656 0.41778022 0.351160696
## 7522 0.46341463 0.43316832 0.4963131 0.33256212 0.482040411
## 7523 0.53658537 0.20049505 0.4659671 0.49937928 0.574359913
## 7524 0.62195122 0.44306931 0.4730573 0.63747116 0.648400564
## 7525 0.47560976 0.41584158 0.4727737 0.46217061 0.345739928
## 7526 0.56097561 0.43069307 0.4849688 0.61249244 0.493465099
## 7527 0.30487805 0.57178218 0.4736245 0.46006075 0.494792964
## 7528 0.50000000 0.37623762 0.4557572 0.62024248 0.567212942
## 7529 0.47560976 0.52722772 0.4733409 0.52386935 0.519905248
## 7530 0.58536585 0.40099010 0.5087918 0.64364942 0.677531533
## 7531 0.56097561 0.56930693 0.4758934 0.55364386 0.503919629
## 7532 0.68292683 0.35643564 0.4730573 0.54834993 0.527484867
## 7533 0.43902439 0.29950495 0.4920590 0.54968130 0.443837510
## 7534 0.62195122 0.55693069 0.4824163 0.63207089 0.521267683
## 7535 0.50000000 0.56683168 0.4824163 0.45016051 0.390180386
## 7536 0.52439024 0.33415842 0.4653999 0.78572943 0.483005111
## 7537 0.18292683 0.47277228 0.5161656 0.16791988 0.414728203
## 7538 0.56097561 0.58168317 0.4946115 0.62782271 0.488525708
## 7539 0.43902439 0.41089109 0.4812819 0.42809603 0.412352914
## 7540 0.50000000 0.14356436 0.4909246 0.50946818 0.432084493
## 7541 0.60975610 0.40099010 0.4914918 0.44436904 0.375240779
## 7542 0.78048780 0.47029703 0.4784458 0.74814942 0.399439459
## 7543 0.37804878 0.72772277 0.4866704 0.46405832 0.608338909
## 7544 0.24390244 0.52722772 0.4968803 0.24001812 0.628007033
## 7545 0.40243902 0.38366337 0.4815655 0.27914508 0.463455296
## 7546 0.46341463 0.69306931 0.4878049 0.44494637 0.462050912
## 7547 0.40243902 0.52227723 0.4719229 0.51177805 0.517259525
## 7548 0.42682927 0.50247525 0.4792967 0.44519664 0.365525196
## 7549 0.47560976 0.50495050 0.5062394 0.54668227 0.382238187
## 7550 0.62195122 0.64603960 0.4812819 0.55040865 0.292939601
## 7551 0.56097561 0.44059406 0.5161656 0.60013158 0.410472920
## 7552 0.71951220 0.24752475 0.4807147 0.62739767 0.587431717
## 7553 0.59756098 0.78217822 0.4642655 0.57199694 0.339217625
## 7554 0.69512195 0.36386139 0.4761770 0.40760326 0.464825879
```

```
## 7555 0.71951220 0.32920792 0.4861032 0.54013813 0.656287265
## 7556 0.78048780 0.52970297 0.4807147 0.57620082 0.478357911
## 7557 0.65853659 0.59405941 0.4707884 0.65467445 0.281271411
## 7558 0.52439024 0.63366337 0.4957459 0.38966620 0.534373656
## 7559 0.56097561 0.38118812 0.4767442 0.55938370 0.410555747
## 7560 0.35365854 0.39356436 0.4937606 0.34160262 0.447890114
## 7561 0.50000000 0.50990099 0.4775950 0.51747476 0.499424678
## 7562 0.50000000 0.49504950 0.4875213 0.53844021 0.486666273
## 7563 0.59756098 0.37376238 0.4809983 0.69309291 0.348497140
## 7564 0.56097561 0.51485149 0.4934770 0.61961100 0.399628921
## 7565 0.52439024 0.29702970 0.4878049 0.45704650 0.519268395
## 7566 0.47560976 0.34158416 0.4838344 0.58751738 0.560737086
## 7567 0.52439024 0.55693069 0.4991492 0.47448522 0.408820244
## 7568 0.35365854 0.32425743 0.4818491 0.44359135 0.526552513
## 7569 0.43902439 0.54455446 0.4764606 0.53030691 0.325486949
## 7570 0.37804878 0.43564356 0.5215542 0.54742662 0.714587249
## 7571 0.28048780 0.61881188 0.5280771 0.42549539 0.283386112
## 7572 0.57317073 0.28465347 0.5028361 0.44123032 0.396248129
## 7573 0.34146341 0.56930693 0.4804311 0.47219418 0.316625797
## 7574 0.69512195 0.54455446 0.4764606 0.49650194 0.425534810
## 7575 0.59756098 0.18316832 0.4909246 0.67438483 0.596849360
## 7576 0.47560976 0.58168317 0.4838344 0.52901665 0.423313036
## 7577 0.53658537 0.44059406 0.5079410 0.47731859 0.534668964
## 7578 0.31707317 0.55940594 0.4931934 0.51223377 0.572817806
## 7579 0.34146341 0.67821782 0.4886557 0.22054910 0.433365232
## 7580 0.35365854 0.50000000 0.4790130 0.32756864 0.461491633
## 7581 0.50000000 0.49504950 0.4948951 0.39356713 0.461182319
## 7582 0.50000000 0.45049505 0.4668179 0.46458298 0.527422809
## 7583 0.58536585 0.55445545 0.4846852 0.59389976 0.417447714
## 7584 0.71951220 0.35891089 0.4892229 0.71894257 0.804673453
## 7585 0.47560976 0.55940594 0.4985820 0.40222132 0.339428953
## 7586 0.46341463 0.35148515 0.5036869 0.57989350 0.666874381
## 7587 0.50000000 0.42079208 0.4954623 0.49674779 0.452790120
## 7588 0.47560976 0.41336634 0.4869541 0.68566644 0.545648322
## 7589 0.50000000 0.50000000 0.4750425 0.46128018 0.320302757
## 7590 0.46341463 0.49009901 0.4875213 0.52410125 0.466370707
## 7591 0.39024390 0.44801980 0.4653999 0.48175147 0.347975519
## 7592 0.68292683 0.24504950 0.4920590 0.72726244 0.590039669
## 7593 0.57317073 0.41089109 0.4781622 0.64817830 0.376952069
## 7594 0.46341463 0.49009901 0.4861032 0.45717042 0.383975624
## 7595 0.53658537 0.45544554 0.4688032 0.61086908 0.356128992
## 7596 0.36585366 0.57920792 0.4826999 0.20206404 0.325173446
## 7597 0.52439024 0.39603960 0.4849688 0.41669969 0.410670779
## 7598 0.62195122 0.33168317 0.4917754 0.66596732 0.637856278
## 7599 0.63414634 0.51237624 0.4634146 0.68436892 0.267317912
## 7600 0.28048780 0.54950495 0.4829836 0.37705265 0.343750872
## 7601 0.30487805 0.50742574 0.4923426 0.17259102 0.419758722
## 7602 0.53658537 0.38118812 0.5036869 0.46246891 0.531315672
## 7603 0.56097561 0.30445545 0.4855360 0.46000696 0.457609775
## 7604 0.28048780 0.73762376 0.5087918 0.34453552 0.290299562
## 7605 0.62195122 0.67079208 0.4895065 0.73239514 0.523705750
## 7606 0.56097561 0.50000000 0.4744753 0.59380878 0.623076366
## 7607 0.28048780 0.66336634 0.4892229 0.35610447 0.361111790
## 7608 0.62195122 0.51237624 0.5144640 0.57074377 0.468956930
## 7609 0.42682927 0.45049505 0.4861032 0.41701530 0.357336367
## 7610 0.31707317 0.66831683 0.4835508 0.38702122 0.543624145
## 7611 0.43902439 0.60891089 0.4812819 0.54902001 0.388679884
## 7612 0.47560976 0.43564356 0.4506523 0.54461113 0.355408072
```

```
## 7613 0.47560976 0.58168317 0.4991492 0.66757246 0.406624764
## 7614 0.53658537 0.41089109 0.4948951 0.53344805 0.531086779
## 7615 0.40243902 0.60643564 0.4600113 0.43895201 0.399979513
## 7616 0.58536585 0.49504950 0.4886557 0.44653106 0.455698323
## 7617 0.41463415 0.25742574 0.4736245 0.46094603 0.557251305
## 7618 0.47560976 0.38118812 0.4892229 0.51788273 0.430482075
## 7619 0.41463415 0.62128713 0.4826999 0.36658117 0.334927487
## 7620 0.46341463 0.54455446 0.4940442 0.42658989 0.440800839
## 7621 0.34146341 0.45544554 0.4965967 0.32263225 0.552430544
## 7622 0.69512195 0.30693069 0.4824163 0.70789760 0.541074105
## 7623 0.75609756 0.49504950 0.4883721 0.78390009 0.464440098
## 7624 0.59756098 0.21782178 0.5130459 0.59066482 0.582436538
## 7625 0.50000000 0.54207921 0.5002836 0.47467017 0.388394282
## 7626 0.50000000 0.60148515 0.4844016 0.59462381 0.394712957
## 7627 0.74390244 0.28712871 0.4764606 0.64570177 0.390087572
## 7628 0.58536585 0.52227723 0.4792967 0.53607367 0.403684347
## 7629 0.52439024 0.26980198 0.4946115 0.42908054 0.348553782
## 7630 0.47560976 0.31930693 0.4410096 0.55321853 0.486473906
## 7631 0.58536585 0.34405941 0.4577425 0.38778775 0.335091301
## 7632 0.36585366 0.56930693 0.4946115 0.38191975 0.458805519
## 7633 0.46341463 0.53960396 0.4892229 0.43207274 0.437409327
## 7634 0.50000000 0.54455446 0.4912082 0.44435349 0.415788388
## 7635 0.58536585 0.34653465 0.4787294 0.59778911 0.454972365
## 7636 0.59756098 0.55693069 0.4628474 0.53655098 0.220871264
## 7637 0.37804878 0.32920792 0.4818491 0.45517369 0.541168380
## 7638 0.62195122 0.45049505 0.4965967 0.59119078 0.639392988
## 7639 0.37804878 0.64108911 0.4909246 0.58782058 0.593087644
## 7640 0.53658537 0.54950495 0.4875213 0.46715445 0.666646279
## 7641 0.53658537 0.34653465 0.4926262 0.59880776 0.633011661
## 7642 0.69512195 0.38613861 0.4804311 0.60092250 0.483294122
## 7643 0.43902439 0.60148515 0.4948951 0.47411037 0.586528588
## 7644 0.71951220 0.51732673 0.4912082 0.80249794 0.459272925
## 7645 0.65853659 0.32425743 0.4747589 0.53741413 0.301686713
## 7646 0.50000000 0.34653465 0.4846852 0.38587129 0.467000461
## 7647 0.57317073 0.50990099 0.4863868 0.50647210 0.464333316
## 7648 0.40243902 0.38366337 0.4809983 0.27851579 0.462988095
## 7649 0.36585366 0.44801980 0.4844016 0.38540139 0.394096142
## 7650 0.24390244 0.44059406 0.4798639 0.15834100 0.395448838
## 7651 0.15853659 0.39108911 0.5008508 0.40243437 0.395327666
## 7652 0.46341463 0.25990099 0.4597277 0.41388655 0.500845860
## 7653 0.43902439 0.38366337 0.4818491 0.60360808 0.359198257
## 7654 0.25609756 0.42574257 0.4912082 0.44515979 0.606578248
## 7655 0.56097561 0.42574257 0.4912082 0.61287586 0.488451264
## 7656 0.46341463 0.49504950 0.4761770 0.50016584 0.497368145
## 7657 0.50000000 0.19059406 0.4892229 0.60010714 0.470771879
## 7658 0.52439024 0.22772277 0.4900737 0.52309169 0.348466962
## 7659 0.58536585 0.49752475 0.4841180 0.55949118 0.478498501
## 7660 0.46341463 0.39356436 0.4889393 0.44815792 0.419896972
## 7661 0.50000000 0.37623762 0.4937606 0.52849667 0.789549068
## 7662 0.50000000 0.46039604 0.4824163 0.38523273 0.606862313
## 7663 0.53658537 0.50990099 0.4875213 0.48044004 0.440053172
## 7664 0.56097561 0.28465347 0.4818491 0.59913750 0.645506539
## 7665 0.56097561 0.41584158 0.4792967 0.45489152 0.374343995
## 7666 0.41463415 0.49752475 0.4903573 0.43067608 0.293384694
## 7667 0.46341463 0.47772277 0.4475326 0.35022456 0.468861097
## 7668 0.37804878 0.57673267 0.4977311 0.29817932 0.525849993
## 7669 0.58536585 0.31930693 0.4912082 0.51581301 0.481539762
## 7670 0.43902439 0.26980198 0.4940442 0.43015970 0.570515037
```

```
## 7671 0.37804878 0.64851485 0.4656835 0.42286633 0.553903193
## 7672 0.36585366 0.70049505 0.5059558 0.43397509 0.368173980
## 7673 0.65853659 0.56930693 0.4628474 0.54763272 0.652645981
## 7674 0.57317073 0.50990099 0.4812819 0.51780174 0.541600016
## 7675 0.59756098 0.55940594 0.4707884 0.62076205 0.578346599
## 7676 0.59756098 0.26732673 0.5059558 0.59324792 0.747337007
## 7677 0.56097561 0.52227723 0.4991492 0.69319835 0.598225884
## 7678 0.56097561 0.54950495 0.4914918 0.43000112 0.502066384
## 7679 0.50000000 0.40594059 0.4832672 0.42895651 0.474366384
## 7680 0.47560976 0.32425743 0.5130459 0.63356903 0.685703885
## 7681 0.59756098 0.52227723 0.4676687 0.39314668 0.234082382
## 7682 0.65853659 0.31435644 0.4821327 0.72429815 0.613791418
## 7683 0.41463415 0.46039604 0.4965967 0.38944342 0.364140115
## 7684 0.65853659 0.26980198 0.4838344 0.57159188 0.612922516
## 7685 0.47560976 0.55198020 0.4770278 0.47558920 0.622674328
## 7686 0.34146341 0.57673267 0.4792967 0.39581163 0.308431253
## 7687 0.43902439 0.35396040 0.4872377 0.65889975 0.535872918
## 7688 0.40243902 0.62623762 0.4685196 0.35676751 0.383089201
## 7689 0.78048780 0.53465347 0.4577425 0.64675613 0.395732323
## 7690 0.52439024 0.42821782 0.4861032 0.53495339 0.586986261
## 7691 0.43902439 0.53712871 0.4815655 0.42709568 0.515253157
## 7692 0.50000000 0.59900990 0.4920590 0.40366031 0.544854996
## 7693 0.31707317 0.62623762 0.4861032 0.33849094 0.387868294
## 7694 0.34146341 0.41336634 0.4838344 0.49997768 0.366862643
## 7695 0.62195122 0.33663366 0.4883721 0.57579889 0.578178079
## 7696 0.65853659 0.54455446 0.4537720 0.47416932 0.278824990
## 7697 0.71951220 0.36633663 0.4733409 0.48226835 0.527583251
## 7698 0.56097561 0.44801980 0.4937606 0.54658997 0.727272662
## 7699 0.46341463 0.52227723 0.5039705 0.38862667 0.447837192
## 7700 0.28048780 0.61633663 0.4980147 0.35099208 0.339674127
## 7701 0.40243902 0.56930693 0.4739081 0.28729293 0.374278016
## 7702 0.50000000 0.51485149 0.4248440 0.46911764 0.402571060
## 7703 0.31707317 0.38861386 0.4540556 0.37208793 0.562128132
## 7704 0.46341463 0.37623762 0.5119115 0.47292577 0.535251442
## 7705 0.56097561 0.41831683 0.4855360 0.52799256 0.426991105
## 7706 0.50000000 0.51732673 0.4753261 0.61515888 0.262717668
## 7707 0.41463415 0.45792079 0.4699376 0.36571078 0.388213104
## 7708 0.47560976 0.69059406 0.4639818 0.49693630 0.500716325
## 7709 0.62195122 0.36386139 0.5190017 0.47304782 0.421633493
## 7710 0.62195122 0.33663366 0.4659671 0.60919582 0.278966938
## 7711 0.50000000 0.64108911 0.4982984 0.51950616 0.541746860
## 7712 0.62195122 0.61138614 0.4775950 0.47037146 0.276075652
## 7713 0.41463415 0.46534653 0.5167328 0.44032249 0.458437326
## 7714 0.43902439 0.45792079 0.4809983 0.45647368 0.503492144
## 7715 0.56097561 0.37871287 0.4597277 0.44597318 0.500848500
## 7716 0.56097561 0.40099010 0.4767442 0.57265366 0.552970238
## 7717 0.40243902 0.55693069 0.4775950 0.29790698 0.383114023
## 7718 0.56097561 0.44059406 0.4994328 0.44827322 0.427969339
## 7719 0.47560976 0.31188119 0.4716393 0.56876507 0.428622853
## 7720 0.78048780 0.48762376 0.4792967 0.82906101 0.442030352
## 7721 0.56097561 0.44801980 0.4631310 0.60997297 0.491685091
## 7722 0.41463415 0.44059406 0.4940442 0.45402755 0.474027821
## 7723 0.50000000 0.51980198 0.4645491 0.47934989 0.433626305
## 7724 0.43902439 0.44059406 0.4688032 0.53754076 0.634198505
## 7725 0.65853659 0.37623762 0.4639818 0.63230248 0.434063977
## 7726 0.35365854 0.67079208 0.5087918 0.42240088 0.593839517
## 7727 0.54878049 0.63118812 0.4648327 0.48785846 0.527980457
## 7728 0.40243902 0.48019802 0.5363018 0.32340385 0.340374451
```

```
## 7729 0.65853659 0.40346535 0.4977311 0.68760980 0.308801656
## 7730 0.84146341 0.28465347 0.4191719 0.76816042 0.744541779
## 7731 0.50000000 0.25742574 0.4634146 0.52230861 0.714355702
## 7732 0.37804878 0.61138614 0.4835508 0.43458934 0.455006821
## 7733 0.50000000 0.50495050 0.3516733 0.55637318 0.485951691
## 7734 0.50000000 0.43069307 0.4696540 0.51285454 0.369886362
## 7735 0.56097561 0.47524752 0.5005672 0.61609436 0.561600742
## 7736 0.47560976 0.34158416 0.5008508 0.49866861 0.615354883
## 7737 0.43902439 0.58663366 0.4747589 0.48572803 0.588019055
## 7738 0.56097561 0.54702970 0.4815655 0.54390967 0.449283198
## 7739 0.65853659 0.53217822 0.4685196 0.71644645 0.555977144
## 7740 0.67073171 0.38613861 0.4948951 0.50363650 0.531074651
## 7741 0.56097561 0.40346535 0.4588769 0.44477019 0.461250441
## 7742 0.43902439 0.58663366 0.4917754 0.42712072 0.567980225
## 7743 0.21951220 0.55693069 0.5090754 0.07885348 0.477494214
## 7744 0.68292683 0.42821782 0.4665343 0.65155679 0.442486981
## 7745 0.34146341 0.54207921 0.4787294 0.48344146 0.519045806
## 7746 0.56097561 0.49504950 0.4829836 0.42511773 0.579166489
## 7747 0.41463415 0.71039604 0.4645491 0.33666321 0.451842981
## 7748 0.31707317 0.62623762 0.5119115 0.29749070 0.260329245
## 7749 0.47560976 0.32178218 0.5121951 0.58610639 0.658662970
## 7750 0.37804878 0.61386139 0.5096427 0.57050081 0.519295995
## 7751 0.50000000 0.65594059 0.4699376 0.51607450 0.404638094
## 7752 0.46341463 0.35148515 0.4954623 0.54001583 0.434414810
## 7753 0.46341463 0.41584158 0.4611458 0.39669696 0.416755938
## 7754 0.40243902 0.33663366 0.4985820 0.44508411 0.470443222
## 7755 0.46341463 0.30940594 0.4889393 0.60672778 0.492187252
## 7756 0.71951220 0.27970297 0.4682360 0.55213913 0.330185814
## 7757 0.47560976 0.46782178 0.5073738 0.45057604 0.587822190
## 7758 0.58536585 0.61138614 0.4540556 0.54002789 0.277558334
## 7759 0.37804878 0.44306931 0.5110607 0.47764314 0.408005915
## 7760 0.59756098 0.46039604 0.4784458 0.62429723 0.322873757
## 7761 0.19512195 0.31930693 0.4656835 0.20974093 0.441311875
## 7762 0.25609756 0.49009901 0.4946115 0.40518673 0.502336281
## 7763 0.53658537 0.34158416 0.4855360 0.53054457 0.534131525
## 7764 0.30487805 0.29702970 0.5133296 0.41719740 0.583508758
## 7765 0.50000000 0.61881188 0.5252411 0.41254437 0.572593989
## 7766 0.46341463 0.65346535 0.4690868 0.48221163 0.364828432
## 7767 0.30487805 0.58910891 0.4977311 0.15634205 0.525783830
## 7768 0.37804878 0.69554455 0.5309132 0.33783836 0.178726467
## 7769 0.56097561 0.48762376 0.4693704 0.62190255 0.401707576
## 7770 0.41463415 0.44801980 0.5090754 0.36316163 0.160681856
## 7771 0.40243902 0.61881188 0.4682360 0.53140859 0.496422160
## 7772 0.47560976 0.43069307 0.4968803 0.38022996 0.580240998
## 7773 0.68292683 0.48514851 0.4761770 0.70111271 0.560307511
## 7774 0.43902439 0.52722772 0.4483834 0.38069732 0.404130614
## 7775 0.65853659 0.50247525 0.4790130 0.72131061 0.322178292
## 7776 0.37804878 0.47029703 0.4733409 0.55850144 0.421623179
## 7777 0.43902439 0.55693069 0.4863868 0.34963433 0.449861705
## 7778 0.41463415 0.52475248 0.5226886 0.49245937 0.518978450
## 7779 0.46341463 0.42326733 0.5119115 0.44447850 0.515977174
## 7780 0.31707317 0.42574257 0.5039705 0.51238334 0.487561349
## 7781 0.43902439 0.36386139 0.4883721 0.43969859 0.374129297
## 7782 0.56097561 0.23762376 0.4954623 0.49311093 0.344117173
## 7783 0.50000000 0.37871287 0.4727737 0.60074129 0.527059790
## 7784 0.52439024 0.53217822 0.4733409 0.45512405 0.524276155
## 7785 0.50000000 0.47524752 0.4730573 0.49366407 0.413423037
## 7786 0.63414634 0.37623762 0.4767442 0.53541209 0.348994541
```

```
## 7787 0.50000000 0.37871287 0.4781622 0.47960574 0.324095115
## 7788 0.59756098 0.23762376 0.4809983 0.59368102 0.427721096
## 7789 0.56097561 0.26485149 0.5036869 0.52718150 0.771631169
## 7790 0.40243902 0.61138614 0.4376064 0.49222887 0.496203139
## 7791 0.52439024 0.63861386 0.4693704 0.59381024 0.358054498
## 7792 0.15853659 0.50495050 0.4875213 0.24236756 0.467336907
## 7793 0.47560976 0.50247525 0.4954623 0.63509925 0.638878436
## 7794 0.52439024 0.49504950 0.4971639 0.46699676 0.463752385
## 7795 0.46341463 0.50247525 0.4971639 0.55483968 0.579284150
## 7796 0.52439024 0.45049505 0.4676687 0.53082110 0.517656276
## 7797 0.65853659 0.45544554 0.4838344 0.52915890 0.446782220
## 7798 0.63414634 0.35643564 0.4858196 0.73630646 0.529990855
## 7799 0.56097561 0.41089109 0.4900737 0.59929570 0.479060589
## 7800 0.56097561 0.48514851 0.4809983 0.59604582 0.409891081
## 7801 0.58536585 0.40346535 0.4787294 0.41898605 0.402091574
## 7802 0.56097561 0.34653465 0.4787294 0.52712121 0.451765233
## 7803 0.41463415 0.52227723 0.4872377 0.48250153 0.491228801
## 7804 0.62195122 0.36138614 0.4866704 0.57085168 0.494130448
## 7805 0.56097561 0.36633663 0.4795803 0.47895696 0.405091632
## 7806 0.56097561 0.41336634 0.4826999 0.45697426 0.454998560
## 7807 0.50000000 0.47029703 0.4832672 0.43658113 0.379921291
## 7808 0.53658537 0.44306931 0.4849688 0.55013964 0.560639862
## 7809 0.52439024 0.29702970 0.4829836 0.46654639 0.491635943
## 7810 0.40243902 0.24257426 0.4798639 0.42668007 0.507803985
## 7811 0.46341463 0.56435644 0.4954623 0.62054935 0.569512413
## 7812 0.24390244 0.34653465 0.5036869 0.48010023 0.551982702
## 7813 0.40243902 0.28465347 0.4653999 0.53551577 0.442276971
## 7814 0.53658537 0.37376238 0.4963131 0.37737566 0.444562776
## 7815 0.47560976 0.51485149 0.4770278 0.45979931 0.499009760
## 7816 0.28048780 0.66336634 0.4994328 0.48814475 0.342853610
## 7817 0.56097561 0.40099010 0.5550199 0.49220773 0.490818299
## 7818 0.47560976 0.33663366 0.4892229 0.40835831 0.482395840
## 7819 0.56097561 0.41336634 0.5022689 0.52873110 0.294987066
## 7820 0.62195122 0.68069307 0.4971639 0.66349298 0.398291899
## 7821 0.47560976 0.64851485 0.4835508 0.50324407 0.457192435
## 7822 0.56097561 0.32920792 0.4753261 0.58808150 0.270585683
## 7823 0.31707317 0.50742574 0.4929098 0.46177938 0.431529903
## 7824 0.47560976 0.40594059 0.4892229 0.51129207 0.397790715
## 7825 0.50000000 0.43316832 0.4688032 0.64714339 0.429203062
## 7826 0.59756098 0.39851485 0.4747589 0.58688152 0.581744352
## 7827 0.56097561 0.48514851 0.4909246 0.41207674 0.511860198
## 7828 0.56097561 0.56930693 0.4736245 0.43970850 0.396931342
## 7829 0.58536585 0.54702970 0.5121951 0.63513638 0.474747716
## 7830 0.50000000 0.51980198 0.5014180 0.62155909 0.571298680
## 7831 0.65853659 0.32673267 0.4628474 0.67091463 0.415015652
## 7832 0.47560976 0.51980198 0.4773114 0.40743274 0.439089063
## 7833 0.74390244 0.40841584 0.5002836 0.65512432 0.777910106
## 7834 0.50000000 0.45792079 0.4098128 0.62127971 0.546325068
## 7835 0.59756098 0.49504950 0.4648327 0.71066559 0.366682824
## 7836 0.59756098 0.54702970 0.4861032 0.59480400 0.444721272
## 7837 0.41463415 0.48514851 0.4855360 0.48032664 0.555498677
## 7838 0.64634146 0.45297030 0.4855360 0.54421043 0.527562225
## 7839 0.53658537 0.49009901 0.4591605 0.56549318 0.329488032
## 7840 0.68292683 0.39851485 0.4895065 0.69335301 0.585862771
## 7841 0.43902439 0.49257426 0.4699376 0.51034222 0.319871786
## 7842 0.47560976 0.43069307 0.4750425 0.65619307 0.523561132
## 7843 0.36585366 0.50247525 0.5039705 0.51822134 0.492895064
## 7844 0.41463415 0.39603960 0.4673851 0.38173644 0.373924555
```

```
## 7845 0.58536585 0.45792079 0.4778786 0.68680538 0.658949970
## 7846 0.43902439 0.47524752 0.4875213 0.36600634 0.483101472
## 7847 0.50000000 0.62376238 0.4696540 0.60900200 0.581533063
## 7848 0.50000000 0.38861386 0.4775950 0.57308011 0.248490192
## 7849 0.43902439 0.57920792 0.5068066 0.46496552 0.452965468
## 7850 0.46341463 0.32425743 0.4895065 0.47568325 0.329912236
## 7851 0.52439024 0.33910891 0.4744753 0.64353664 0.449980576
## 7852 0.52439024 0.63118812 0.5150312 0.53942760 0.582804327
## 7853 0.59756098 0.40841584 0.4971639 0.45900631 0.820902755
## 7854 0.56097561 0.29950495 0.4954623 0.54331964 0.363595998
## 7855 0.52439024 0.54455446 0.4761770 0.40355871 0.397998112
## 7856 0.42682927 0.54702970 0.4926262 0.44674085 0.599438440
## 7857 0.52439024 0.35396040 0.6020987 0.56921535 0.390983453
## 7858 0.31707317 0.13118812 0.4767442 0.19164728 0.372841424
## 7859 0.52439024 0.40841584 0.5096427 0.43549596 0.450681061
## 7860 0.43902439 0.50990099 0.4866704 0.47415174 0.504442794
## 7861 0.56097561 0.31683168 0.4946115 0.65092016 0.467799492
## 7862 0.56097561 0.68811881 0.4948951 0.32986514 0.191379093
## 7863 0.50000000 0.51980198 0.4690868 0.47445788 0.455995560
## 7864 0.62195122 0.38861386 0.4756098 0.52386160 0.325053688
## 7865 0.46341463 0.48514851 0.4775950 0.34215443 0.516476780
## 7866 0.65853659 0.49009901 0.4841180 0.62679718 0.492133152
## 7867 0.50000000 0.45544554 0.4668179 0.53821760 0.464727099
## 7868 0.40243902 0.49752475 0.4597277 0.47831193 0.576949343
## 7869 0.62195122 0.26485149 0.4844016 0.51157590 0.378069211
## 7870 0.50000000 0.56683168 0.4886557 0.41908490 0.475563961
## 7871 0.50000000 0.52722772 0.4841180 0.39601257 0.419005870
## 7872 0.34146341 0.40346535 0.5014180 0.35724487 0.446739689
## 7873 0.34146341 0.59653465 0.4466818 0.53699208 0.200582763
## 7874 0.69512195 0.41831683 0.4835508 0.57723397 0.471482832
## 7875 0.56097561 0.38613861 0.3774816 0.44540562 0.509227169
## 7876 0.37804878 0.66089109 0.4750425 0.46001731 0.529399149
## 7877 0.41463415 0.62376238 0.4532048 0.56257972 0.520769978
## 7878 0.50000000 0.45792079 0.4895065 0.56918179 0.414106998
## 7879 0.46341463 0.46039604 0.4906410 0.29589251 0.335925306
## 7880 0.62195122 0.54207921 0.4574589 0.71603326 0.520169558
## 7881 0.56097561 0.56930693 0.4792967 0.63806700 0.472566328
## 7882 0.52439024 0.33415842 0.4724901 0.78568713 0.503804657
## 7883 0.50000000 0.39851485 0.4980147 0.39127296 0.501557677
## 7884 0.43902439 0.57178218 0.4775950 0.44157090 0.541899974
## 7885 0.46341463 0.67821782 0.4767442 0.60690339 0.681633878
## 7886 0.50000000 0.50247525 0.4642655 0.49136674 0.461756348
## 7887 0.50000000 0.47277228 0.4744753 0.49432166 0.414400602
## 7888 0.69512195 0.41584158 0.4722065 0.59564318 0.354960904
## 7889 0.62195122 0.29455446 0.5059558 0.49249906 0.506783719
## 7890 0.41463415 0.53465347 0.4679524 0.38568530 0.500770946
## 7891 0.41463415 0.70049505 0.4758934 0.56478141 0.450583838
## 7892 0.59756098 0.23762376 0.4812819 0.60184221 0.435160354
## 7893 0.47560976 0.30693069 0.4934770 0.44276790 0.378775069
## 7894 0.52439024 0.36881188 0.4821327 0.54725084 0.456957016
## 7895 0.52439024 0.52475248 0.4926262 0.50097873 0.601707667
## 7896 0.65853659 0.45049505 0.4829836 0.59013375 0.461347044
## 7897 0.47560976 0.66336634 0.4707884 0.56989711 0.496794550
## 7898 0.36585366 0.57920792 0.4846852 0.26373106 0.412863219
## 7899 0.47560976 0.38613861 0.4787294 0.51092491 0.377943332
## 7900 0.50000000 0.59900990 0.4838344 0.31628120 0.399297332
## 7901 0.50000000 0.64851485 0.4727737 0.60255883 0.575753310
## 7902 0.40243902 0.42326733 0.4724901 0.44865064 0.368316131
```

```
## 7903 0.31707317 0.54702970 0.4971639 0.48302784 0.562240428
## 7904 0.59756098 0.49752475 0.4665343 0.54443600 0.722657002
## 7905 0.53658537 0.53960396 0.3865570 0.45472143 0.511995646
## 7906 0.31707317 0.59900990 0.4824163 0.30361178 0.374621322
## 7907 0.69512195 0.50247525 0.4914918 0.52564944 0.478319471
## 7908 0.41463415 0.44059406 0.4815655 0.55949898 0.489172500
## 7909 0.71951220 0.53960396 0.4997164 0.43761809 0.392778417
## 7910 0.28048780 0.67079208 0.4750425 0.30481534 0.268674745
## 7911 0.56097561 0.68069307 0.4889393 0.58057053 0.455475234
## 7912 0.60975610 0.37871287 0.4920590 0.44051010 0.395971798
## 7913 0.40243902 0.30198020 0.5238230 0.30752265 0.483651295
## 7914 0.43902439 0.52475248 0.5243902 0.45017137 0.696546336
## 7915 0.43902439 0.29207921 0.5005672 0.52640192 0.568857127
## 7916 0.56097561 0.53465347 0.4940442 0.45353976 0.407381278
## 7917 0.43902439 0.56930693 0.5011344 0.47838346 0.525537390
## 7918 0.28048780 0.43316832 0.5022689 0.38353601 0.447223967
## 7919 0.43902439 0.54455446 0.4951787 0.37651340 0.357793263
## 7920 0.53658537 0.44306931 0.4943279 0.43757046 0.350726964
## 7921 0.52439024 0.41336634 0.4866704 0.55050996 0.516038818
## 7922 0.53658537 0.33415842 0.4503687 0.60699019 0.578114709
## 7923 0.30487805 0.45792079 0.4991492 0.33467444 0.595177044
## 7924 0.28048780 0.62376238 0.5158820 0.18783329 0.463997871
## 7925 0.59756098 0.53960396 0.4719229 0.51326338 0.454177975
## 7926 0.43902439 0.52227723 0.5008508 0.61080780 0.613067338
## 7927 0.52439024 0.59405941 0.4849688 0.54365266 0.311714594
## 7928 0.50000000 0.40346535 0.4829836 0.47334655 0.463257844
## 7929 0.46341463 0.53960396 0.4946115 0.42536231 0.575569977
## 7930 0.62195122 0.55940594 0.4532048 0.66093988 0.544862387
## 7931 0.46341463 0.50495050 0.4611458 0.48990413 0.476618180
## 7932 0.43902439 0.50247525 0.4756098 0.54625751 0.325459583
## 7933 0.50000000 0.38118812 0.4767442 0.49780307 0.279564688
## 7934 0.68292683 0.32920792 0.4744753 0.62844345 0.436892034
## 7935 0.68292683 0.40346535 0.4912082 0.63245742 0.569740463
## 7936 0.50000000 0.57673267 0.4807147 0.47247058 0.426636928
## 7937 0.26829268 0.54950495 0.4705048 0.47983180 0.423072820
## 7938 0.37804878 0.26237624 0.4821327 0.27383225 0.421276536
## 7939 0.40243902 0.62376238 0.4724901 0.49471156 0.535473183
## 7940 0.56097561 0.47524752 0.4954623 0.42647177 0.482470807
## 7941 0.21951220 0.39356436 0.4988656 0.12664475 0.443415574
## 7942 0.46341463 0.37128713 0.4897901 0.55554235 0.461570174
## 7943 0.40243902 0.56435644 0.4929098 0.30840710 0.590681617
## 7944 0.47560976 0.31435644 0.4739081 0.41180983 0.485194158
## 7945 0.50000000 0.40594059 0.4988656 0.62126176 0.626037041
## 7946 0.41463415 0.53217822 0.4917754 0.58871930 0.543622423
## 7947 0.43902439 0.47524752 0.4926262 0.46633248 0.559331619
## 7948 0.62195122 0.45792079 0.4934770 0.67834839 0.587639016
## 7949 0.71951220 0.47277228 0.4761770 0.49875982 0.420857253
## 7950 0.37804878 0.57178218 0.4835508 0.43558280 0.450964310
## 7951 0.56097561 0.57673267 0.4863868 0.66351999 0.410652432
## 7952 0.37804878 0.45792079 0.4821327 0.27477557 0.470422779
## 7953 0.36585366 0.54702970 0.5051049 0.27254068 0.428211554
## 7954 0.41463415 0.44306931 0.4900737 0.48601106 0.701450438
## 7955 0.47560976 0.38366337 0.4824163 0.63602984 0.566618031
## 7956 0.53658537 0.44554455 0.4826999 0.48479933 0.467231595
## 7957 0.31707317 0.54455446 0.4880885 0.52167382 0.478889125
## 7958 0.36585366 0.45049505 0.4844016 0.38339259 0.395738291
## 7959 0.65853659 0.31930693 0.4787294 0.67936240 0.456776585
## 7960 0.53658537 0.44306931 0.4849688 0.55086422 0.558340758
```

```
## 7961 0.47560976 0.41089109 0.4863868 0.69103145 0.548047188
## 7962 0.37804878 0.51237624 0.4818491 0.58656048 0.470912679
## 7963 0.56097561 0.60396040 0.5042541 0.50731876 0.359817688
## 7964 0.56097561 0.43316832 0.4741917 0.52092583 0.367913760
## 7965 0.59756098 0.36633663 0.4946115 0.63237168 0.646178455
## 7966 0.34146341 0.42574257 0.5246739 0.38824741 0.446363192
## 7967 0.37804878 0.54207921 0.4943279 0.54067868 0.599231202
## 7968 0.36585366 0.55445545 0.4818491 0.48748313 0.476941627
## 7969 0.34146341 0.57425743 0.4815655 0.40727469 0.293608720
## 7970 0.62195122 0.43316832 0.4880885 0.62316334 0.496304487
## 7971 0.50000000 0.37871287 0.4863868 0.58232129 0.512606945
## 7972 0.53658537 0.55445545 0.4756098 0.57404623 0.381152320
## 7973 0.36585366 0.55693069 0.4994328 0.35107624 0.450662411
## 7974 0.62195122 0.23267327 0.4906410 0.63955067 0.473310802
## 7975 0.56097561 0.44554455 0.4560408 0.64910734 0.411418875
## 7976 0.56097561 0.32673267 0.4889393 0.46362861 0.233831758
## 7977 0.46341463 0.47277228 0.4883721 0.29693336 0.350233299
## 7978 0.43902439 0.58910891 0.5008508 0.33494044 0.341602008
## 7979 0.50000000 0.30445545 0.5530346 0.46272961 0.471466210
## 7980 0.63414634 0.29702970 0.4659671 0.69224187 0.400224258
## 7981 0.71951220 0.53217822 0.4653999 0.83774259 0.552942193
## 7982 0.47560976 0.46287129 0.4863868 0.40702373 0.343207601
## 7983 0.58536585 0.20792079 0.4662507 0.64290004 0.387995884
## 7984 0.47560976 0.44059406 0.4756098 0.53947600 0.478746295
## 7985 0.47560976 0.34158416 0.4846852 0.46181458 0.632563171
## 7986 0.50000000 0.37376238 0.4855360 0.56993571 0.512410152
## 7987 0.56097561 0.40594059 0.4895065 0.42280949 0.556835590
## 7988 0.24390244 0.54950495 0.4736245 0.40153763 0.351742059
## 7989 0.57317073 0.32920792 0.4787294 0.61495848 0.708817202
## 7990 0.43902439 0.25495050 0.4832672 0.42751070 0.490343917
## 7991 0.40243902 0.45049505 0.4982984 0.28543612 0.591840533
## 7992 0.74390244 0.34653465 0.4801475 0.53803834 0.473179624
## 7993 0.40243902 0.69801980 0.4716393 0.44127967 0.544156027
## 7994 0.56097561 0.43069307 0.4914918 0.47884345 0.660719883
## 7995 0.40243902 0.56683168 0.4920590 0.58960155 0.588902000
## 7996 0.74390244 0.43811881 0.4886557 0.60882963 0.493466513
## 7997 0.59756098 0.29207921 0.4792967 0.75973642 0.338600464
## 7998 0.78048780 0.41336634 0.4764606 0.85600205 0.440702541
## 7999 0.43902439 0.40841584 0.4946115 0.62875813 0.593658376
## 8000 0.62195122 0.46782178 0.4809983 0.56666618 0.328692376
## 8001 0.59756098 0.34158416 0.4951787 0.51358862 0.690612140
## 8002 0.68292683 0.43069307 0.4982984 0.52210923 0.426295203
## 8003 0.62195122 0.58415842 0.4826999 0.69406819 0.410099229
## 8004 0.65853659 0.46534653 0.4824163 0.48298066 0.470115874
## 8005 0.34146341 0.61138614 0.4844016 0.28678244 0.433740351
## 8006 0.47560976 0.54950495 0.4974475 0.49937501 0.577640988
## 8007 0.56097561 0.48514851 0.4965967 0.58376996 0.610128832
## 8008 0.47560976 0.42821782 0.4736245 0.65479136 0.524323141
## 8009 0.68292683 0.39108911 0.4821327 0.48430906 0.464952827
## 8010 0.47560976 0.49752475 0.4872377 0.59708775 0.577265057
## 8011 0.50000000 0.51980198 0.4872377 0.62424854 0.464370792
## 8012 0.65853659 0.41089109 0.4863868 0.62482772 0.543463002
## 8013 0.62195122 0.43564356 0.4861032 0.57665382 0.457298009
## 8014 0.47560976 0.58910891 0.4826999 0.54052354 0.540785984
## 8015 0.40243902 0.47029703 0.4980147 0.55300309 0.827678465
## 8016 0.42682927 0.47524752 0.5017016 0.50250536 0.705801168
## 8017 0.41463415 0.47029703 0.4937606 0.61574299 0.538045317
## 8018 0.50000000 0.26980198 0.5076574 0.46808344 0.430698282
```

501

```
## 8019 0.56097561 0.54455446 0.4980147 0.49229787 0.576632091
## 8020 0.56097561 0.49752475 0.4861032 0.42261712 0.587651079
## 8021 0.50000000 0.50247525 0.4940442 0.52866601 0.772677669
## 8022 0.84146341 0.80198020 0.4826999 0.86169486 0.408713243
## 8023 0.37804878 0.50000000 0.4903573 0.31509643 0.595269741
## 8024 0.46341463 0.35643564 0.5121951 0.46397507 0.602617738
## 8025 0.47560976 0.50495050 0.4880885 0.46418950 0.503281480
## 8026 0.65853659 0.23762376 0.4815655 0.61820512 0.513583662
## 8027 0.65853659 0.59405941 0.4628474 0.49014358 0.281559670
## 8028 0.56097561 0.48019802 0.5161656 0.56522334 0.377778563
## 8029 0.40243902 0.46287129 0.5008508 0.53957667 0.639981555
## 8030 0.56097561 0.35396040 0.4926262 0.53863966 0.379207208
## 8031 0.46341463 0.57673267 0.4653999 0.40787775 0.318166547
## 8032 0.59756098 0.54702970 0.4988656 0.59547625 0.483965552
## 8033 0.59756098 0.43316832 0.4696540 0.61898935 0.739102796
## 8034 0.43902439 0.27970297 0.5272263 0.47163190 0.437070677
## 8035 0.47560976 0.38613861 0.4208735 0.45936167 0.324081416
## 8036 0.50000000 0.46039604 0.4829836 0.57130826 0.503837965
## 8037 0.50000000 0.56435644 0.4642655 0.50695529 0.468011358
## 8038 0.37804878 0.72772277 0.4585933 0.38016994 0.168032758
## 8039 0.40243902 0.52227723 0.4713556 0.52441455 0.424163793
## 8040 0.34146341 0.47277228 0.4747589 0.46194826 0.412801601
## 8041 0.46341463 0.52475248 0.4878049 0.45059473 0.263954432
## 8042 0.31707317 0.65099010 0.4991492 0.31165206 0.381069996
## 8043 0.64634146 0.59405941 0.5014180 0.56305357 0.566758138
## 8044 0.74390244 0.65346535 0.4963131 0.80539345 0.566128158
## 8045 0.50000000 0.44306931 0.4736245 0.50858043 0.649307419
## 8046 0.46341463 0.54702970 0.4917754 0.39447685 0.338114410
## 8047 0.46341463 0.41336634 0.5085082 0.46305267 0.554422885
## 8048 0.43902439 0.44306931 0.4600113 0.50347613 0.360650022
## 8049 0.46341463 0.44554455 0.4671015 0.61879051 0.547096453
## 8050 0.50000000 0.44059406 0.5068066 0.48362200 0.725364367
## 8051 0.43902439 0.57178218 0.4421441 0.51300978 0.379748151
## 8052 0.56097561 0.41584158 0.4946115 0.55692506 0.455948517
## 8053 0.40243902 0.41336634 0.4968803 0.35858951 0.242251186
## 8054 0.50000000 0.68811881 0.4775950 0.45087999 0.513110368
## 8055 0.41463415 0.52227723 0.5025525 0.45544797 0.496433680
## 8056 0.53658537 0.49257426 0.5121951 0.45448522 0.584775010
## 8057 0.46341463 0.26237624 0.5252411 0.37920028 0.503610894
## 8058 0.34146341 0.52227723 0.4883721 0.45497743 0.363663068
## 8059 0.64634146 0.47277228 0.4982984 0.60118487 0.366300765
## 8060 0.47560976 0.45792079 0.4770278 0.49029488 0.347260563
## 8061 0.68292683 0.56435644 0.5045377 0.59511962 0.680000028
## 8062 0.34146341 0.40594059 0.5226886 0.48223243 0.441054079
## 8063 0.52439024 0.46287129 0.4730573 0.51474812 0.442869582
## 8064 0.50000000 0.42574257 0.4812819 0.68475203 0.354393954
## 8065 0.53658537 0.48514851 0.4756098 0.56064274 0.521818057
## 8066 0.78048780 0.64851485 0.5068066 0.82310488 0.511295532
## 8067 0.31707317 0.62623762 0.4787294 0.34669872 0.308259594
## 8068 0.52439024 0.42079208 0.5008508 0.41681716 0.514804129
## 8069 0.41463415 0.37376238 0.5079410 0.47724149 0.429727813
## 8070 0.59756098 0.51732673 0.4844016 0.53308141 0.567643498
## 8071 0.59756098 0.28712871 0.4943279 0.51968538 0.469480023
## 8072 0.47560976 0.43069307 0.5113443 0.44888279 0.424388036
## 8073 0.34146341 0.69306931 0.4781622 0.40358162 0.378893790
## 8074 0.47560976 0.69059406 0.4707884 0.50634522 0.544336946
## 8075 0.28048780 0.57673267 0.4773114 0.37131177 0.320046507
## 8076 0.43902439 0.56683168 0.4781622 0.51411449 0.442066140
```

502

```
## 8077 0.53658537 0.47277228 0.4844016 0.62458480 0.469167153
## 8078 0.56097561 0.73019802 0.4866704 0.52942308 0.535085225
## 8079 0.46341463 0.32425743 0.4821327 0.47351212 0.299354997
## 8080 0.43902439 0.31683168 0.4724901 0.43766518 0.407229738
## 8081 0.31707317 0.45049505 0.4997164 0.28273643 0.151374254
## 8082 0.43902439 0.43564356 0.4690868 0.57389409 0.460690187
## 8083 0.53658537 0.47772277 0.4747589 0.69222838 0.351515382
## 8084 0.71951220 0.58663366 0.4838344 0.57095324 0.286222480
## 8085 0.46341463 0.46039604 0.4968803 0.56852857 0.403339396
## 8086 0.43902439 0.38861386 0.4855360 0.51232537 0.302710994
## 8087 0.62195122 0.42326733 0.4872377 0.41985588 0.473334659
## 8088 0.57317073 0.38366337 0.4940442 0.61426124 0.507930540
## 8089 0.64634146 0.41336634 0.5121951 0.56048497 0.477230595
## 8090 0.53658537 0.16089109 0.4787294 0.57233428 0.488737415
## 8091 0.74390244 0.51485149 0.4730573 0.73288547 0.550149129
## 8092 0.78048780 0.50247525 0.4994328 0.56250619 0.717023689
## 8093 0.37804878 0.51980198 0.4900737 0.41651209 0.407279296
## 8094 0.50000000 0.50000000 0.4861032 0.48105583 0.525062818
## 8095 0.47560976 0.38366337 0.4832672 0.60023944 0.713848418
## 8096 0.52439024 0.63861386 0.4693704 0.59372760 0.368762876
## 8097 0.30487805 0.38613861 0.4883721 0.30904909 0.631826640
## 8098 0.41463415 0.26237624 0.4407260 0.47098286 0.448843711
## 8099 0.47560976 0.44059406 0.4583097 0.54007460 0.452208048
## 8100 0.50000000 0.51732673 0.4889393 0.36674883 0.414515896
## 8101 0.63414634 0.27475248 0.4809983 0.63026780 0.658449962
## 8102 0.53658537 0.38861386 0.4835508 0.61048380 0.602415478
## 8103 0.62195122 0.21039604 0.4940442 0.55507690 0.391475983
## 8104 0.64634146 0.63118812 0.5068066 0.76740685 0.526364718
## 8105 0.37804878 0.33168317 0.4886557 0.50571117 0.346491441
## 8106 0.68292683 0.38613861 0.4591605 0.52118778 0.378839806
## 8107 0.37804878 0.46039604 0.4767442 0.41631821 0.346763373
## 8108 0.43902439 0.42574257 0.4982984 0.42647224 0.573401987
## 8109 0.28048780 0.50742574 0.4960295 0.28196361 0.219020376
## 8110 0.59756098 0.52722772 0.4807147 0.56257185 0.403313881
## 8111 0.52439024 0.50495050 0.5022689 0.48317485 0.603844715
## 8112 0.42682927 0.59653465 0.4886557 0.40035269 0.669937564
## 8113 0.64634146 0.49504950 0.4903573 0.52924133 0.322870239
## 8114 0.59756098 0.40594059 0.4807147 0.47546276 0.511259632
## 8115 0.47560976 0.33663366 0.4920590 0.38057026 0.285963204
## 8116 0.46341463 0.59405941 0.4733409 0.53412078 0.438903206
## 8117 0.28048780 0.42326733 0.4914918 0.26944501 0.660629474
## 8118 0.56097561 0.58910891 0.4883721 0.65702932 0.494408224
## 8119 0.50000000 0.52475248 0.4653999 0.50911262 0.436015907
## 8120 0.31707317 0.18811881 0.4730573 0.30370225 0.591131300
## 8121 0.43902439 0.43564356 0.4861032 0.56801314 0.433525523
## 8122 0.65853659 0.30198020 0.4580261 0.56882724 0.284236849
## 8123 0.15853659 0.68069307 0.4818491 0.29571075 0.201669437
## 8124 0.40243902 0.55693069 0.4872377 0.37837114 0.463936950
## 8125 0.43902439 0.42574257 0.4863868 0.34694238 0.623085702
## 8126 0.46341463 0.71039604 0.4807147 0.52051385 0.318143815
## 8127 0.53658537 0.36386139 0.4844016 0.52565482 0.501235412
## 8128 0.62195122 0.33415842 0.4883721 0.55475603 0.556116839
## 8129 0.47560976 0.44554455 0.4795803 0.52600185 0.508231641
## 8130 0.37804878 0.58663366 0.5022689 0.40629637 0.517340522
## 8131 0.59756098 0.38366337 0.4880885 0.64516241 0.479065260
## 8132 0.59756098 0.24752475 0.4948951 0.56793900 0.708845455
## 8133 0.47560976 0.48019802 0.4801475 0.43288274 0.340050759
## 8134 0.65853659 0.28960396 0.4849688 0.50846354 0.538433779
```

```
## 8135 0.59756098 0.46287129 0.4903573 0.52883070 0.510596316
## 8136 0.43902439 0.54950495 0.4826999 0.58549411 0.634659155
## 8137 0.56097561 0.48267327 0.4906410 0.49210246 0.363362522
## 8138 0.47560976 0.58663366 0.4880885 0.40255401 0.514399924
## 8139 0.58536585 0.66584158 0.4897901 0.60913216 0.527923383
## 8140 0.59756098 0.50495050 0.4883721 0.48970431 0.393150768
## 8141 0.62195122 0.63613861 0.4844016 0.53306905 0.538429080
## 8142 0.52439024 0.45297030 0.4863868 0.50028476 0.558416425
## 8143 0.34146341 0.57673267 0.4909246 0.27417513 0.425473500
## 8144 0.74390244 0.37128713 0.4869541 0.67997718 0.494121221
## 8145 0.35365854 0.47772277 0.4846852 0.55590140 0.453323837
## 8146 0.47560976 0.19554455 0.4773114 0.47220624 0.475172381
## 8147 0.59756098 0.44059406 0.4770278 0.45396021 0.517800214
## 8148 0.56097561 0.19306931 0.4926262 0.37279857 0.305714095
## 8149 0.56097561 0.49504950 0.4886557 0.39509724 0.430441465
## 8150 0.50000000 0.53217822 0.4775950 0.38071281 0.333003119
## 8151 0.43902439 0.46534653 0.4744753 0.49257621 0.395669096
## 8152 0.31707317 0.54207921 0.5039705 0.31174047 0.132824904
## 8153 0.46341463 0.40346535 0.4784458 0.51422501 0.285771983
## 8154 0.37804878 0.35148515 0.4880885 0.31333992 0.532669685
## 8155 0.24390244 0.54950495 0.4736245 0.39819717 0.352474308
## 8156 0.58536585 0.53960396 0.4963131 0.62478709 0.572221819
## 8157 0.42682927 0.55940594 0.4960295 0.27674840 0.453301148
## 8158 0.30487805 0.45792079 0.4980147 0.33440291 0.591978767
## 8159 0.71951220 0.34900990 0.4895065 0.58823999 0.594741892
## 8160 0.37804878 0.33168317 0.4883721 0.50691500 0.346627539
## 8161 0.62195122 0.36881188 0.4863868 0.61871239 0.405614772
## 8162 0.50000000 0.46782178 0.4750425 0.52443955 0.438838801
## 8163 0.43902439 0.37871287 0.4792967 0.39002908 0.382506852
## 8164 0.50000000 0.48514851 0.4917754 0.49696540 0.558211904
## 8165 0.24390244 0.49504950 0.4991492 0.27966188 0.604554445
## 8166 0.71951220 0.35643564 0.4889393 0.70707578 0.817006388
## 8167 0.58536585 0.55445545 0.4826999 0.58920190 0.424982655
## 8168 0.59756098 0.40099010 0.4892229 0.53800350 0.489620589
## 8169 0.50000000 0.33663366 0.4863868 0.69181629 0.536561648
## 8170 0.58536585 0.52227723 0.4804311 0.52936502 0.407202130
## 8171 0.37804878 0.40346535 0.4900737 0.48298678 0.560261601
## 8172 0.50000000 0.47772277 0.4838344 0.45868389 0.501103175
## 8173 0.28048780 0.41584158 0.4812819 0.20180290 0.479671294
## 8174 0.50000000 0.46534653 0.4878049 0.56790625 0.562166130
## 8175 0.75609756 0.38366337 0.4863868 0.62538180 0.480288219
## 8176 0.65853659 0.28960396 0.4849688 0.50710331 0.538099028
## 8177 0.43902439 0.51980198 0.4869541 0.54968315 0.495275711
## 8178 0.62195122 0.36633663 0.4846852 0.50465684 0.403296116
## 8179 0.53658537 0.32425743 0.4841180 0.43618768 0.549409160
## 8180 0.65853659 0.34158416 0.4849688 0.55347164 0.486101571
## 8181 0.52439024 0.72772277 0.4577425 0.28676000 0.343490820
## 8182 0.39024390 0.55940594 0.4778786 0.56566507 0.542330038
## 8183 0.34146341 0.58663366 0.4804311 0.37288388 0.508393755
## 8184 0.50000000 0.60643564 0.4795803 0.51171973 0.597652319
## 8185 0.43902439 0.43564356 0.4923426 0.41102742 0.314320400
## 8186 0.56097561 0.62128713 0.4741917 0.69498947 0.624835872
## 8187 0.74390244 0.41831683 0.4787294 0.68683455 0.462264795
## 8188 0.52439024 0.56930693 0.4909246 0.48511975 0.436781427
## 8189 0.62195122 0.41584158 0.4829836 0.51873592 0.543243098
## 8190 0.50000000 0.47029703 0.4946115 0.38816895 0.538898062
## 8191 0.54878049 0.41584158 0.4809983 0.70227504 0.550472101
## 8192 0.52439024 0.59405941 0.4897901 0.54054115 0.391712288
```

```
## 8193 0.59756098 0.45297030 0.4761770 0.63532538 0.453214731
## 8194 0.37804878 0.61138614 0.4489507 0.34769644 0.465721878
## 8195 0.37804878 0.40346535 0.4812819 0.50226102 0.520206863
## 8196 0.62195122 0.51732673 0.4997164 0.58439197 0.570878636
## 8197 0.39024390 0.56683168 0.4696540 0.59499212 0.354357572
## 8198 0.65853659 0.23019802 0.5099263 0.61558489 0.339017831
## 8199 0.74390244 0.49752475 0.4909246 0.62761390 0.442660073
## 8200 0.46341463 0.60396040 0.4773114 0.50006300 0.212818971
## 8201 0.52439024 0.68564356 0.4974475 0.59939031 0.544214206
## 8202 0.56097561 0.45544554 0.4699376 0.54465396 0.267016501
## 8203 0.37804878 0.58663366 0.4832672 0.60225281 0.499094701
## 8204 0.63414634 0.49009901 0.4982984 0.60490534 0.659706751
## 8205 0.56097561 0.52475248 0.5119115 0.57928389 0.434601458
## 8206 0.43902439 0.38613861 0.4866704 0.51126309 0.302533125
## 8207 0.68292683 0.50990099 0.4495179 0.57287950 0.336984094
## 8208 0.56097561 0.57425743 0.4784458 0.50423244 0.567184143
## 8209 0.35365854 0.30445545 0.4651163 0.24035692 0.417804488
## 8210 0.65853659 0.47029703 0.5073738 0.59566778 0.552223370
## 8211 0.47560976 0.52475248 0.4778786 0.64069989 0.347062622
## 8212 0.43902439 0.52227723 0.4968803 0.37021692 0.275955880
## 8213 0.50000000 0.36633663 0.4940442 0.47794071 0.491731506
## 8214 0.34146341 0.27722772 0.4764606 0.45579743 0.565629878
## 8215 0.56097561 0.47772277 0.4778786 0.39527938 0.277697628
## 8216 0.37804878 0.53217822 0.4829836 0.39902164 0.512749780
## 8217 0.56097561 0.37376238 0.4651163 0.48487152 0.443977604
## 8218 0.56097561 0.50000000 0.4744753 0.61860241 0.692812852
## 8219 0.28048780 0.61881188 0.4849688 0.33313165 0.492012503
## 8220 0.43902439 0.63118812 0.4699376 0.37741050 0.418561746
## 8221 0.56097561 0.46534653 0.4645491 0.53922860 0.286339626
## 8222 0.59756098 0.32178218 0.4750425 0.61616345 0.468182355
## 8223 0.50000000 0.62376238 0.4988656 0.39237089 0.559329347
## 8224 0.64634146 0.61138614 0.4758934 0.66465517 0.360513757
## 8225 0.40243902 0.39851485 0.5017016 0.45319861 0.510072691
## 8226 0.52439024 0.57425743 0.4605786 0.49212260 0.391811693
## 8227 0.37804878 0.41089109 0.4710720 0.52497472 0.754525497
## 8228 0.50000000 0.55693069 0.4954623 0.40778804 0.410257309
## 8229 0.57317073 0.39108911 0.4818491 0.61983647 0.656543518
## 8230 0.40243902 0.47277228 0.4790130 0.43845691 0.342937507
## 8231 0.34146341 0.43564356 0.4912082 0.45448117 0.500010899
## 8232 0.24390244 0.59900990 0.4707884 0.35274110 0.413462238
## 8233 0.37804878 0.59653465 0.4784458 0.42291743 0.341819844
## 8234 0.43902439 0.52227723 0.4787294 0.34809401 0.237388543
## 8235 0.52439024 0.41089109 0.4812819 0.49083114 0.432525731
## 8236 0.43902439 0.43564356 0.4727737 0.57584304 0.464936282
## 8237 0.40243902 0.41336634 0.4739081 0.49069316 0.498915435
## 8238 0.46341463 0.49009901 0.4787294 0.48500350 0.566608330
## 8239 0.53658537 0.39603960 0.4826999 0.61329793 0.666276081
## 8240 0.59756098 0.46287129 0.4937606 0.63218850 0.690757136
## 8241 0.58536585 0.43811881 0.4733409 0.51533851 0.386574646
## 8242 0.58536585 0.72277228 0.4713556 0.57614954 0.472691372
## 8243 0.34146341 0.64108911 0.4826999 0.49632892 0.645109690
## 8244 0.52439024 0.37376238 0.4812819 0.57157605 0.333072608
## 8245 0.37804878 0.46039604 0.4963131 0.27664194 0.409481511
## 8246 0.43902439 0.57920792 0.4707884 0.43757647 0.345378483
## 8247 0.36585366 0.37623762 0.4863868 0.38433320 0.375879142
## 8248 0.37804878 0.56683168 0.4832672 0.38017698 0.603488095
## 8249 0.59756098 0.45297030 0.4855360 0.63696222 0.311665054
## 8250 0.56097561 0.50495050 0.4656835 0.52089113 0.332801106
```

```
## 8251 0.37804878 0.66089109 0.4741917 0.60761922 0.512732213
## 8252 0.53658537 0.32178218 0.4937606 0.47662301 0.517552849
## 8253 0.56097561 0.37623762 0.4841180 0.64470292 0.485686223
## 8254 0.37804878 0.53960396 0.4682360 0.42055566 0.474553642
## 8255 0.45121951 0.51237624 0.4801475 0.49837817 0.370234744
## 8256 0.36585366 0.59653465 0.4951787 0.50361957 0.433050051
## 8257 0.53658537 0.30693069 0.4897901 0.57110124 0.423096904
## 8258 0.52439024 0.53465347 0.4872377 0.58612780 0.578295295
## 8259 0.46341463 0.60643564 0.4673851 0.48501487 0.303702078
## 8260 0.47560976 0.57425743 0.4770278 0.40940127 0.204865589
## 8261 0.40243902 0.34405941 0.4895065 0.60568393 0.480484490
## 8262 0.40243902 0.64851485 0.4588769 0.52111302 0.313824943
## 8263 0.40243902 0.63366337 0.4980147 0.54144285 0.586606980
## 8264 0.50000000 0.57673267 0.4824163 0.50255609 0.735817556
## 8265 0.46341463 0.69554455 0.4739081 0.53218482 0.480172592
## 8266 0.31707317 0.37871287 0.5249575 0.47395906 0.624472571
## 8267 0.36585366 0.53217822 0.4809983 0.49359621 0.517881013
## 8268 0.62195122 0.29455446 0.4946115 0.58542225 0.478588571
## 8269 0.62195122 0.41584158 0.4818491 0.52169440 0.549182609
## 8270 0.62195122 0.42821782 0.4977311 0.47662114 0.502143158
## 8271 0.59756098 0.36881188 0.5039705 0.49684792 0.382562614
## 8272 0.75609756 0.52970297 0.4636982 0.77448613 0.438378397
## 8273 0.54878049 0.43316832 0.4940442 0.49037637 0.510290397
## 8274 0.65853659 0.44059406 0.4724901 0.66100109 0.686167438
## 8275 0.56097561 0.32920792 0.4710720 0.56134074 0.259836366
## 8276 0.46341463 0.10891089 0.5102099 0.54044126 0.646305820
## 8277 0.21951220 0.51732673 0.4948951 0.42352510 0.253950266
## 8278 0.34146341 0.49752475 0.4696540 0.48671746 0.277987400
## 8279 0.34146341 0.71287129 0.4965967 0.41118871 0.545410660
## 8280 0.40243902 0.62376238 0.4574589 0.35838890 0.384332556
## 8281 0.46341463 0.55940594 0.4804311 0.50953369 0.669131613
## 8282 0.15853659 0.50742574 0.4875213 0.24270227 0.465480802
## 8283 0.51219512 0.47772277 0.4724901 0.44809795 0.495527179
## 8284 0.52439024 0.35643564 0.4929098 0.65597389 0.801905961
## 8285 0.34146341 0.56435644 0.4861032 0.54828236 0.564929811
## 8286 0.56097561 0.43316832 0.5019853 0.52759553 0.590534487
## 8287 0.65853659 0.32425743 0.4775950 0.53326236 0.311393615
## 8288 0.78048780 0.53960396 0.4685196 0.88527159 0.505391578
## 8289 0.50000000 0.29950495 0.4713556 0.50109917 0.396035751
## 8290 0.18292683 0.50990099 0.4988656 0.17537340 0.585801624
## 8291 0.56097561 0.56683168 0.4719229 0.54647914 0.518469631
## 8292 0.59756098 0.30940594 0.5011344 0.57989646 0.496737431
## 8293 0.56097561 0.31188119 0.4900737 0.65782400 0.648246931
## 8294 0.62195122 0.60891089 0.4631310 0.54943971 0.500113806
## 8295 0.37804878 0.54207921 0.4903573 0.54191636 0.595301021
## 8296 0.41463415 0.41089109 0.4982984 0.40015605 0.572332157
## 8297 0.69512195 0.57673267 0.4957459 0.54641631 0.455320149
## 8298 0.63414634 0.33415842 0.4665343 0.76125628 0.462640702
## 8299 0.52439024 0.50495050 0.4512195 0.50809001 0.544762126
## 8300 0.47560976 0.44801980 0.4651163 0.49607299 0.452404844
## 8301 0.36585366 0.58168317 0.5119115 0.51533856 0.346752230
## 8302 0.59756098 0.46039604 0.4773114 0.45074059 0.418914533
## 8303 0.34146341 0.40594059 0.5207033 0.52944266 0.599833342
## 8304 0.35365854 0.53465347 0.5158820 0.38264588 0.527308236
## 8305 0.46341463 0.47029703 0.4733409 0.58350640 0.495084409
## 8306 0.59756098 0.55198020 0.4653999 0.69889531 0.642228815
## 8307 0.54878049 0.69554455 0.4895065 0.37924274 0.474688783
## 8308 0.46341463 0.49752475 0.4849688 0.56397896 0.590030314
```

```
## 8309 0.69512195 0.57178218 0.4588769 0.81140627 0.310790030
## 8310 0.56097561 0.37871287 0.4682360 0.75078299 0.469591189
## 8311 0.50000000 0.50990099 0.4736245 0.43253601 0.442624122
## 8312 0.40243902 0.52970297 0.4849688 0.40822015 0.436055894
## 8313 0.65853659 0.40346535 0.4965967 0.61589965 0.507998746
## 8314 0.50000000 0.30445545 0.5476461 0.46276365 0.453982253
## 8315 0.56097561 0.45297030 0.4861032 0.56610248 0.373169871
## 8316 0.53658537 0.26237624 0.5008508 0.49527006 0.564129320
## 8317 0.47560976 0.20792079 0.5212706 0.59820510 0.688459494
## 8318 0.80487805 0.61138614 0.4968803 0.75413495 0.438860428
## 8319 0.50000000 0.57673267 0.4608622 0.44674671 0.418222288
## 8320 0.56097561 0.44801980 0.4849688 0.52628129 0.479868516
## 8321 0.50000000 0.34158416 0.4982984 0.43352988 0.535834474
## 8322 0.37804878 0.66089109 0.4597277 0.43993526 0.333024044
## 8323 0.37804878 0.25000000 0.5068066 0.51011647 0.643222879
## 8324 0.40243902 0.51732673 0.4750425 0.45679983 0.532122890
## 8325 0.50000000 0.50000000 0.5048213 0.51906806 0.554092673
## 8326 0.43902439 0.42821782 0.5056721 0.45544447 0.636577908
## 8327 0.43902439 0.50495050 0.4636982 0.36114322 0.308370682
## 8328 0.52439024 0.41089109 0.5070902 0.43062710 0.534753694
## 8329 0.47560976 0.36633663 0.4792967 0.52203376 0.406425623
## 8330 0.47560976 0.32425743 0.4912082 0.40404496 0.526543620
## 8331 0.69512195 0.38613861 0.4934770 0.58025331 0.591410100
## 8332 0.53658537 0.23267327 0.4923426 0.40403570 0.331202145
## 8333 0.64634146 0.44306931 0.4883721 0.56771766 0.643270127
## 8334 0.50000000 0.36633663 0.4645491 0.51378974 0.562463397
## 8335 0.37804878 0.37623762 0.4934770 0.47619872 0.541457016
## 8336 0.37804878 0.46534653 0.4903573 0.29314699 0.271961242
## 8337 0.56097561 0.35891089 0.4801475 0.68847821 0.646154481
## 8338 0.64634146 0.35148515 0.4665343 0.60712110 0.499000977
## 8339 0.43902439 0.49752475 0.5019853 0.52100147 0.601816855
## 8340 0.65853659 0.30693069 0.4960295 0.55836207 0.498959475
## 8341 0.46341463 0.45544554 0.5119115 0.53179160 0.498488974
## 8342 0.40243902 0.31930693 0.5031197 0.49676045 0.632371420
## 8343 0.41463415 0.33415842 0.5039705 0.44426143 0.608727883
## 8344 0.47560976 0.48019802 0.4568917 0.49998623 0.494022650
## 8345 0.52439024 0.70049505 0.5036869 0.22465935 0.325466740
## 8346 0.40243902 0.66089109 0.4940442 0.42430056 0.503797972
## 8347 0.68292683 0.45792079 0.4690868 0.65682884 0.502428861
## 8348 0.56097561 0.49752475 0.5184345 0.34702692 0.410897469
## 8349 0.50000000 0.55940594 0.5008508 0.35602385 0.450492610
## 8350 0.50000000 0.40099010 0.5190017 0.41688085 0.529475546
## 8351 0.68292683 0.37376238 0.4900737 0.57271164 0.492667079
## 8352 0.50000000 0.43069307 0.4982984 0.46550862 0.394672829
## 8353 0.53658537 0.32920792 0.5116279 0.40757478 0.705211069
## 8354 0.58536585 0.42574257 0.5076574 0.57105425 0.782868679
## 8355 0.71951220 0.64851485 0.4526375 0.63741441 0.461024885
## 8356 0.50000000 0.45544554 0.4801475 0.50905069 0.325519081
## 8357 0.58536585 0.43564356 0.4914918 0.49822225 0.388370905
## 8358 0.78048780 0.34900990 0.4773114 0.75373950 0.624496868
## 8359 0.40243902 0.42326733 0.4923426 0.50747598 0.325278897
## 8360 0.59756098 0.31435644 0.5045377 0.52939786 0.512464891
## 8361 0.52439024 0.50247525 0.5076574 0.40498896 0.474171954
## 8362 0.56097561 0.40346535 0.4747589 0.61331536 0.469042530
## 8363 0.43902439 0.46039604 0.4795803 0.44447265 0.351967477
## 8364 0.41463415 0.59405941 0.5000000 0.41725602 0.532851414
## 8365 0.41463415 0.32425743 0.4787294 0.48719304 0.624597958
## 8366 0.40243902 0.44554455 0.4775950 0.43315268 0.510394267
```

507

```
## 8367 0.53658537 0.37623762 0.4917754 0.49799250 0.276711821
## 8368 0.50000000 0.46782178 0.5124787 0.51740627 0.586218923
## 8369 0.40243902 0.47524752 0.4764606 0.37280173 0.251953033
## 8370 0.56097561 0.47772277 0.5062394 0.50168471 0.568696612
## 8371 0.40243902 0.45792079 0.4883721 0.29429582 0.486668210
## 8372 0.65853659 0.44059406 0.4756098 0.66536816 0.686606702
## 8373 0.52439024 0.32673267 0.4787294 0.41130049 0.361173146
## 8374 0.43902439 0.69306931 0.4889393 0.44064824 0.433316478
## 8375 0.56097561 0.46039604 0.4826999 0.63676468 0.457576558
## 8376 0.46341463 0.56188119 0.4645491 0.60443778 0.274126357
## 8377 0.31707317 0.52970297 0.4906410 0.32268340 0.451604921
## 8378 0.65853659 0.29207921 0.4804311 0.68655179 0.796743731
## 8379 0.34146341 0.58663366 0.4773114 0.38011710 0.273373438
## 8380 0.56097561 0.36386139 0.4826999 0.53817986 0.493186115
## 8381 0.74390244 0.45792079 0.4951787 0.74557996 0.439698975
## 8382 0.50000000 0.45049505 0.4719229 0.46675787 0.518097536
## 8383 0.58536585 0.55693069 0.4807147 0.52224471 0.329374378
## 8384 0.56097561 0.39108911 0.4739081 0.63524788 0.588470591
## 8385 0.43902439 0.64108911 0.5178673 0.37744304 0.586509763
## 8386 0.53658537 0.37623762 0.4863868 0.55600335 0.546566268
## 8387 0.41463415 0.48514851 0.4812819 0.41950865 0.412761348
## 8388 0.31707317 0.50495050 0.4756098 0.47824666 0.518998216
## 8389 0.46341463 0.54207921 0.4880885 0.44137737 0.434631443
## 8390 0.62195122 0.46782178 0.4812819 0.56750865 0.322408045
## 8391 0.46341463 0.59158416 0.4792967 0.39850360 0.309366985
## 8392 0.43902439 0.61138614 0.4858196 0.50708204 0.390873502
## 8393 0.24390244 0.55198020 0.4841180 0.37948613 0.465094960
## 8394 0.43902439 0.51980198 0.4869541 0.54762909 0.497310424
## 8395 0.50000000 0.58663366 0.4866704 0.61990447 0.476972182
## 8396 0.34146341 0.47772277 0.4855360 0.47782227 0.503713485
## 8397 0.52439024 0.44059406 0.4832672 0.40705500 0.362969990
## 8398 0.43902439 0.46782178 0.5116279 0.40099958 0.546195229
## 8399 0.54878049 0.69554455 0.4781622 0.38264193 0.476271119
## 8400 0.37804878 0.57425743 0.4855360 0.48102986 0.248435184
## 8401 0.43902439 0.71287129 0.4878049 0.43270545 0.483308135
## 8402 0.40243902 0.34158416 0.5019853 0.46794090 0.530162612
## 8403 0.41463415 0.48019802 0.4912082 0.39533480 0.430623865
## 8404 0.52439024 0.45544554 0.4713556 0.63225058 0.296422889
## 8405 0.43902439 0.51980198 0.4985820 0.50240268 0.411149415
## 8406 0.65853659 0.61633663 0.4812819 0.51539098 0.303866221
## 8407 0.59756098 0.47772277 0.4965967 0.70395932 0.507526640
## 8408 0.53658537 0.47277228 0.4798639 0.39666425 0.371708177
## 8409 0.37804878 0.58415842 0.5314804 0.55391377 0.407279296
## 8410 0.43902439 0.30198020 0.4968803 0.59977561 0.812703656
## 8411 0.53658537 0.36138614 0.4724901 0.59043739 0.365472061
## 8412 0.50000000 0.39851485 0.4965967 0.50132304 0.330609480
## 8413 0.43902439 0.53960396 0.4963131 0.48009143 0.580519153
## 8414 0.52439024 0.44801980 0.5263755 0.49854546 0.510913337
## 8415 0.43902439 0.71287129 0.5141804 0.47610842 0.763512681
## 8416 0.64634146 0.67574257 0.4883721 0.73652954 0.476298576
## 8417 0.56097561 0.54702970 0.4946115 0.43096844 0.506962719
## 8418 0.24390244 0.47524752 0.4934770 0.37258836 0.417403782
## 8419 0.59756098 0.40594059 0.4900737 0.50432197 0.634796384
## 8420 0.52439024 0.39108911 0.4790130 0.59484720 0.472910736
## 8421 0.47560976 0.46534653 0.4795803 0.41451010 0.311737052
## 8422 0.50000000 0.35891089 0.4480998 0.51299555 0.308346045
## 8423 0.53658537 0.41584158 0.5119115 0.62989742 0.445820636
## 8424 0.37804878 0.38861386 0.5082246 0.53392117 0.406780889
```

508

```
## 8425 0.50000000 0.35891089 0.4912082 0.37209511 0.288029639
## 8426 0.56097561 0.55445545 0.4628474 0.61211938 0.367595423
## 8427 0.25609756 0.52475248 0.4997164 0.32671331 0.227449455
## 8428 0.50000000 0.47524752 0.4526375 0.64594136 0.488017968
## 8429 0.41463415 0.56188119 0.4682360 0.57287276 0.373674745
## 8430 0.59756098 0.44306931 0.5039705 0.69601373 0.596037426
## 8431 0.28048780 0.22524752 0.4849688 0.53233389 0.661741284
## 8432 0.59756098 0.53217822 0.4795803 0.64453448 0.612192955
## 8433 0.43902439 0.50495050 0.4997164 0.47736259 0.320248130
## 8434 0.71951220 0.51237624 0.4671015 0.61240541 0.474211195
## 8435 0.53658537 0.37623762 0.4895065 0.49946586 0.274660234
## 8436 0.52439024 0.50990099 0.4750425 0.49780774 0.549395958
## 8437 0.19512195 0.32178218 0.4724901 0.24553906 0.505697154
## 8438 0.53658537 0.47524752 0.4801475 0.51412726 0.417404036
## 8439 0.62195122 0.40346535 0.4920590 0.60760233 0.434271281
## 8440 0.56097561 0.65841584 0.5155984 0.50594575 0.522294445
## 8441 0.59756098 0.34405941 0.5065230 0.53601013 0.602306540
## 8442 0.59756098 0.40099010 0.3876914 0.52103073 0.340873666
## 8443 0.62195122 0.47524752 0.4934770 0.63794299 0.508178727
## 8444 0.53658537 0.78712871 0.4483834 0.54100670 0.507730126
## 8445 0.68292683 0.29702970 0.4804311 0.68355606 0.702481917
## 8446 0.53658537 0.63118812 0.4512195 0.50471476 0.235202098
## 8447 0.43902439 0.46782178 0.4889393 0.45773477 0.289339855
## 8448 0.50000000 0.57920792 0.4809983 0.50167269 0.732944976
## 8449 0.31707317 0.55940594 0.4844016 0.53015122 0.520131307
## 8450 0.53658537 0.57425743 0.5110607 0.54410285 0.539799438
## 8451 0.46341463 0.50990099 0.4835508 0.49148591 0.423964928
## 8452 0.50000000 0.60396040 0.5646625 0.53629578 0.569978844
## 8453 0.28048780 0.57673267 0.4818491 0.36108061 0.222207477
## 8454 0.56097561 0.51237624 0.4861032 0.65738170 0.317888985
## 8455 0.34146341 0.16831683 0.5235394 0.50325844 0.555492280
## 8456 0.40243902 0.59405941 0.4869541 0.37096506 0.330413421
## 8457 0.50000000 0.45297030 0.4795803 0.45601112 0.270605049
## 8458 0.21951220 0.69059406 0.5762904 0.40110505 0.594726624
## 8459 0.40243902 0.47277228 0.4792967 0.43532912 0.344291522
## 8460 0.62195122 0.47029703 0.5068066 0.58075597 0.442479250
## 8461 0.62195122 0.20792079 0.4923426 0.52606442 0.391337965
## 8462 0.50000000 0.50000000 0.4412933 0.54613323 0.462022244
## 8463 0.41463415 0.62623762 0.4815655 0.54103010 0.497803509
## 8464 0.56097561 0.41584158 0.4798639 0.49560325 0.324869855
## 8465 0.65853659 0.29455446 0.4841180 0.51369587 0.300635196
## 8466 0.40243902 0.77970297 0.5147476 0.42564794 0.521325440
## 8467 0.47560976 0.39603960 0.4563244 0.58263170 0.377402949
## 8468 0.74390244 0.35643564 0.4739081 0.75754139 0.525329868
## 8469 0.47560976 0.51732673 0.4900737 0.43289459 0.267881803
## 8470 0.46341463 0.56188119 0.4710720 0.47511884 0.395700387
## 8471 0.62195122 0.50000000 0.4897901 0.51470789 0.436586571
## 8472 0.46341463 0.67574257 0.4878049 0.48549799 0.539727415
## 8473 0.56097561 0.47524752 0.5116279 0.42484518 0.493491838
## 8474 0.42682927 0.50742574 0.4920590 0.41906737 0.485995049
## 8475 0.47560976 0.65346535 0.5082246 0.43758723 0.606330320
## 8476 0.35365854 0.61138614 0.4914918 0.35789521 0.468108642
## 8477 0.57317073 0.33168317 0.4923426 0.50297281 0.408561523
## 8478 0.50000000 0.53960396 0.5354509 0.42259112 0.422745404
## 8479 0.43902439 0.40346535 0.4832672 0.50090442 0.314690933
## 8480 0.71951220 0.24752475 0.4798639 0.62410696 0.621241189
## 8481 0.46341463 0.37128713 0.4750425 0.43591231 0.766186912
## 8482 0.50000000 0.60643564 0.4795803 0.53117246 0.377694323
```

509

```
## 8483 0.41463415 0.50000000 0.5093590 0.41408126 0.425737203
## 8484 0.46341463 0.39108911 0.4929098 0.54651895 0.422034492
## 8485 0.58536585 0.33910891 0.4991492 0.63102253 0.425723074
## 8486 0.47560976 0.62128713 0.4849688 0.51175320 0.498482489
## 8487 0.56097561 0.59900990 0.5011344 0.40323238 0.230715490
## 8488 0.53658537 0.63861386 0.4693704 0.50844745 0.585300961
## 8489 0.47560976 0.57425743 0.4812819 0.40581292 0.190336496
## 8490 0.31707317 0.52475248 0.4673851 0.51180080 0.432773918
## 8491 0.40243902 0.69554455 0.4716393 0.54711555 0.462976870
## 8492 0.25609756 0.25247525 0.4801475 0.17204995 0.587104053
## 8493 0.59756098 0.41089109 0.5224050 0.57561301 0.423071345
## 8494 0.39024390 0.38613861 0.5048213 0.60239996 0.595794949
## 8495 0.50000000 0.67821782 0.5056721 0.63584149 0.464083441
## 8496 0.52439024 0.50495050 0.4909246 0.35462534 0.415046310
## 8497 0.37804878 0.58415842 0.4795803 0.45849234 0.528726743
## 8498 0.56097561 0.24257426 0.4917754 0.61237646 0.512340170
## 8499 0.47560976 0.54702970 0.4889393 0.49795685 0.555604074
## 8500 0.53658537 0.36138614 0.5119115 0.52774271 0.427935988
## 8501 0.50000000 0.16831683 0.5070902 0.57893165 0.540857827
## 8502 0.62195122 0.49504950 0.5079410 0.52719156 0.370711993
## 8503 0.47560976 0.70544554 0.4841180 0.46457155 0.573868822
## 8504 0.52439024 0.38118812 0.4770278 0.59453141 0.442929133
## 8505 0.65853659 0.32920792 0.5000000 0.52248372 0.404125582
## 8506 0.50000000 0.49009901 0.5085082 0.58934000 0.473266444
## 8507 0.34146341 0.63366337 0.5224050 0.43302246 0.652340970
## 8508 0.56097561 0.30940594 0.4895065 0.57839370 0.523033616
## 8509 0.50000000 0.24504950 0.5000000 0.49921488 0.463838040
## 8510 0.52439024 0.53465347 0.4866704 0.55098289 0.547057801
## 8511 0.52439024 0.47029703 0.5039705 0.41627077 0.545621243
## 8512 0.42682927 0.55940594 0.4957459 0.53708657 0.580354362
## 8513 0.59756098 0.50990099 0.4829836 0.49936812 0.621797189
## 8514 0.25609756 0.40346535 0.4699376 0.31763151 0.544817596
## 8515 0.31707317 0.77970297 0.4829836 0.38029032 0.329145506
## 8516 0.58536585 0.36386139 0.4846852 0.58829467 0.495015742
## 8517 0.50000000 0.30198020 0.4625638 0.51231426 0.462397302
## 8518 0.53658537 0.64603960 0.5087918 0.40186120 0.543568170
## 8519 0.56097561 0.26980198 0.5110607 0.47947768 0.544237166
## 8520 0.58536585 0.39851485 0.4688032 0.59597990 0.475829462
## 8521 0.58536585 0.40099010 0.4801475 0.47813230 0.492905537
## 8522 0.62195122 0.46287129 0.4826999 0.55986203 0.355279018
## 8523 0.46341463 0.55198020 0.4605786 0.40769998 0.599074900
## 8524 0.62195122 0.38118812 0.4929098 0.44048234 0.505995414
## 8525 0.37804878 0.46782178 0.4727737 0.42830737 0.502477113
## 8526 0.78048780 0.80445545 0.4838344 0.77257583 0.209128930
## 8527 0.43902439 0.31188119 0.5155984 0.47835044 0.524871125
## 8528 0.34146341 0.61138614 0.4605786 0.50258679 0.407092114
## 8529 0.43902439 0.75495050 0.5085082 0.50558857 0.542307951
## 8530 0.59756098 0.46534653 0.4795803 0.47140094 0.306586825
## 8531 0.56097561 0.43069307 0.4929098 0.48309677 0.661944786
## 8532 0.84146341 0.57920792 0.4926262 0.87041355 0.411125327
## 8533 0.41463415 0.59405941 0.4815655 0.41712924 0.218384835
## 8534 0.37804878 0.58910891 0.4770278 0.45335356 0.416479561
## 8535 0.86585366 0.73514851 0.5034033 0.90912730 0.459073610
## 8536 0.35365854 0.56435644 0.4747589 0.44126770 0.477210026
## 8537 0.47560976 0.43564356 0.4770278 0.53618347 0.507108740
## 8538 0.40243902 0.50247525 0.4764606 0.50822994 0.445455681
## 8539 0.59756098 0.38366337 0.4889393 0.64572228 0.479297175
## 8540 0.42682927 0.39603960 0.4900737 0.53636356 0.630018308
```

```
## 8541 0.47560976 0.34405941 0.4844016 0.45705873 0.632434913
## 8542 0.40243902 0.49504950 0.4929098 0.54515882 0.418300262
## 8543 0.46341463 0.59405941 0.4826999 0.51346429 0.312107705
## 8544 0.47560976 0.54207921 0.4767442 0.51737637 0.434517437
## 8545 0.59756098 0.65594059 0.4551900 0.55397270 0.481453353
## 8546 0.50000000 0.44801980 0.4617130 0.45074352 0.324575793
## 8547 0.56097561 0.41831683 0.5090754 0.66508064 0.724410924
## 8548 0.31707317 0.62623762 0.4931934 0.42696997 0.520650567
## 8549 0.47560976 0.57425743 0.4818491 0.40876073 0.185797112
## 8550 0.25609756 0.63861386 0.4398752 0.26928482 0.292402598
## 8551 0.50000000 0.45049505 0.4931934 0.43991957 0.405788932
## 8552 0.37804878 0.61881188 0.4767442 0.47989247 0.472396586
## 8553 0.65853659 0.54950495 0.4974475 0.74236862 0.664379410
## 8554 0.56097561 0.54207921 0.4815655 0.52469209 0.470445077
## 8555 0.84146341 0.50742574 0.4614294 0.68619145 0.499968448
## 8556 0.56097561 0.63861386 0.4744753 0.40575248 0.217478754
## 8557 0.40243902 0.69554455 0.4719229 0.55062530 0.468923676
## 8558 0.34146341 0.59900990 0.4733409 0.47557526 0.269769452
## 8559 0.53658537 0.68564356 0.4798639 0.43014765 0.425817439
## 8560 0.67073171 0.60148515 0.4707884 0.51281408 0.264342950
## 8561 0.46341463 0.56188119 0.4773114 0.43552667 0.291843751
## 8562 0.47560976 0.61881188 0.4696540 0.46955182 0.498014842
## 8563 0.37804878 0.70297030 0.4773114 0.46568130 0.463686916
## 8564 0.40243902 0.47277228 0.4690868 0.44804104 0.539422573
## 8565 0.74390244 0.28712871 0.4671015 0.49899876 0.455794502
## 8566 0.56097561 0.65346535 0.4923426 0.55603572 0.522523652
## 8567 0.46341463 0.38861386 0.4954623 0.48833245 0.513641635
## 8568 0.53658537 0.25000000 0.5048213 0.56229767 0.471296699
## 8569 0.50000000 0.40594059 0.4844016 0.54586239 0.515156698
## 8570 0.28048780 0.35891089 0.4946115 0.50779925 0.631223285
## 8571 0.64634146 0.31435644 0.4821327 0.67122364 0.381191397
## 8572 0.46341463 0.52227723 0.4600113 0.38212050 0.501893283
## 8573 0.50000000 0.64851485 0.4662507 0.32206174 0.395829551
## 8574 0.46341463 0.48514851 0.4549064 0.54331149 0.324530491
## 8575 0.46341463 0.49257426 0.4653999 0.41075558 0.435976879
## 8576 0.31707317 0.66584158 0.5073738 0.52663268 0.241222625
## 8577 0.53658537 0.50247525 0.4696540 0.67382217 0.447346794
## 8578 0.50000000 0.47029703 0.4653999 0.43595340 0.334766305
## 8579 0.53658537 0.51732673 0.4889393 0.50184094 0.478031872
## 8580 0.41463415 0.47772277 0.4931934 0.32159581 0.282469134
## 8581 0.90243902 0.29455446 0.4648327 0.86921846 0.339856635
## 8582 0.31707317 0.25990099 0.5158820 0.42419522 0.559302032
## 8583 0.65853659 0.34900990 0.4968803 0.62602737 0.668142411
## 8584 0.50000000 0.75742574 0.4483834 0.40936036 0.374382472
## 8585 0.59756098 0.26237624 0.4994328 0.49422423 0.557405235
## 8586 0.37804878 0.60396040 0.5053885 0.50738330 0.642355872
## 8587 0.43902439 0.29950495 0.4974475 0.32402049 0.385392738
## 8588 0.50000000 0.56188119 0.5119115 0.59476497 0.535678142
## 8589 0.46341463 0.43811881 0.4741917 0.49323517 0.425187627
## 8590 0.56097561 0.64603960 0.4951787 0.68688393 0.463161890
## 8591 0.43902439 0.51980198 0.4696540 0.44448055 0.479397629
## 8592 0.50000000 0.67079208 0.4617130 0.53910140 0.409730679
## 8593 0.32926829 0.57673267 0.4804311 0.55234062 0.557151740
## 8594 0.62195122 0.37128713 0.4702212 0.69052565 0.403118442
## 8595 0.68292683 0.55693069 0.4608622 0.53103370 0.401270442
## 8596 0.47560976 0.50495050 0.4923426 0.57665912 0.547460493
## 8597 0.62195122 0.58168317 0.4994328 0.53579245 0.538400175
## 8598 0.50000000 0.30445545 0.4801475 0.50582529 0.518544538
```

```
## 8599 0.47560976 0.43316832 0.4237096 0.44665027 0.618609721
## 8600 0.47560976 0.60891089 0.4878049 0.44016400 0.471771591
## 8601 0.46341463 0.71287129 0.4878049 0.54615366 0.371499750
## 8602 0.46341463 0.55940594 0.4602950 0.38899410 0.392462689
## 8603 0.12195122 0.46782178 0.5028361 0.12506203 0.537604644
## 8604 0.50000000 0.43316832 0.4778786 0.65053945 0.436670676
## 8605 0.68292683 0.25742574 0.5014180 0.50511019 0.539027364
## 8606 0.50000000 0.26237624 0.5178673 0.47841474 0.553495101
## 8607 0.43902439 0.52227723 0.4812819 0.40922378 0.328642243
## 8608 0.50000000 0.39603960 0.4985820 0.49146487 0.553719433
## 8609 0.60975610 0.44801980 0.4756098 0.68140080 0.481015096
## 8610 0.56097561 0.34405941 0.5155984 0.42290431 0.634356210
## 8611 0.50000000 0.56188119 0.4787294 0.58212780 0.347763160
## 8612 0.37804878 0.55198020 0.4954623 0.40904405 0.560216808
## 8613 0.52439024 0.38366337 0.4889393 0.49032385 0.622060965
## 8614 0.47560976 0.50495050 0.4739081 0.36500363 0.584688520
## 8615 0.24390244 0.32178218 0.5229722 0.31402909 0.568936768
## 8616 0.34146341 0.60891089 0.4495179 0.41616278 0.404179770
## 8617 0.68292683 0.55693069 0.4509359 0.53319608 0.333073327
## 8618 0.43902439 0.47524752 0.4963131 0.45490179 0.661570905
## 8619 0.59756098 0.55445545 0.4807147 0.74353374 0.434617632
## 8620 0.43902439 0.63118812 0.4710720 0.37420560 0.425750599
## 8621 0.43902439 0.40841584 0.4875213 0.40910387 0.452754895
## 8622 0.56097561 0.52970297 0.4702212 0.37976199 0.358721301
## 8623 0.40243902 0.60891089 0.4702212 0.48423861 0.494877011
## 8624 0.50000000 0.48514851 0.5000000 0.53803127 0.424450155
## 8625 0.50000000 0.41336634 0.4846852 0.32341412 0.386340793
## 8626 0.56097561 0.38861386 0.4639818 0.50030810 0.246162052
## 8627 0.40243902 0.45049505 0.5082246 0.48339331 0.458731573
## 8628 0.52439024 0.42574257 0.5184345 0.61167847 0.467588677
## 8629 0.53658537 0.54207921 0.4699376 0.55622476 0.527805599
## 8630 0.28048780 0.61633663 0.5059558 0.28631537 0.546015497
## 8631 0.52439024 0.42821782 0.5022689 0.60773989 0.586246740
## 8632 0.52439024 0.61881188 0.4971639 0.53916637 0.520521487
## 8633 0.41463415 0.47029703 0.5085082 0.49699368 0.597817692
## 8634 0.50000000 0.31188119 0.4889393 0.54714390 0.533884828
## 8635 0.62195122 0.50247525 0.4869541 0.52547852 0.441263874
## 8636 0.35365854 0.48267327 0.5017016 0.45870407 0.529160080
## 8637 0.62195122 0.48514851 0.4583097 0.52970110 0.672408052
## 8638 0.50000000 0.48762376 0.4807147 0.56144917 0.479472131
## 8639 0.50000000 0.42079208 0.4909246 0.55579594 0.395797939
## 8640 0.50000000 0.47029703 0.4710720 0.43785065 0.337007718
## 8641 0.65853659 0.42821782 0.4821327 0.55074815 0.595315667
## 8642 0.50000000 0.34653465 0.5056721 0.49149231 0.349392369
## 8643 0.47560976 0.49009901 0.4849688 0.35959598 0.229078080
## 8644 0.37804878 0.59405941 0.4934770 0.36552443 0.429831900
## 8645 0.37804878 0.37623762 0.4653999 0.64150305 0.552408158
## 8646 0.62195122 0.67821782 0.4784458 0.53291210 0.462283616
## 8647 0.41463415 0.62128713 0.4826999 0.46696689 0.453465019
## 8648 0.46341463 0.49504950 0.4614294 0.53578868 0.518038663
## 8649 0.62195122 0.44306931 0.5008508 0.44830835 0.415663697
## 8650 0.42682927 0.68069307 0.4753261 0.40095194 0.446371401
## 8651 0.57317073 0.61138614 0.4991492 0.42284475 0.440224608
## 8652 0.53658537 0.59405941 0.4418605 0.44307982 0.463488488
## 8653 0.58536585 0.24257426 0.4792967 0.57901134 0.523933417
## 8654 0.59756098 0.54207921 0.4619966 0.51847856 0.457061043
## 8655 0.31707317 0.58910891 0.4500851 0.45328160 0.497874674
## 8656 0.50000000 0.54702970 0.4455474 0.60360008 0.683214330
```

```
## 8657 0.52439024 0.66584158 0.4710720 0.52327127 0.307649347
## 8658 0.50000000 0.47524752 0.4849688 0.48667383 0.403227128
## 8659 0.53658537 0.59405941 0.4861032 0.55156759 0.430904234
## 8660 0.52439024 0.45049505 0.4787294 0.46645987 0.445015045
## 8661 0.43902439 0.55445545 0.5090754 0.38818698 0.571963678
## 8662 0.53658537 0.37376238 0.4974475 0.53059045 0.543014522
## 8663 0.37804878 0.50000000 0.4929098 0.34256669 0.573756193
## 8664 0.71951220 0.37871287 0.4645491 0.61607533 0.514777114
## 8665 0.56097561 0.51980198 0.4758934 0.50307164 0.517462263
## 8666 0.65853659 0.48267327 0.4946115 0.71118497 0.600859941
## 8667 0.43902439 0.44554455 0.4991492 0.42731386 0.432785763
## 8668 0.52439024 0.48762376 0.4858196 0.57035170 0.690313007
## 8669 0.56097561 0.50247525 0.4753261 0.48175529 0.411726397
## 8670 0.58536585 0.35396040 0.5311968 0.59914483 0.555717424
## 8671 0.50000000 0.54702970 0.4679524 0.46196186 0.310973208
## 8672 0.90243902 0.61881188 0.4801475 0.91566928 0.454916441
## 8673 0.50000000 0.40099010 0.4739081 0.59277688 0.328395234
## 8674 0.71951220 0.28217822 0.5025525 0.54619993 0.375232223
## 8675 0.40243902 0.42326733 0.4829836 0.50886642 0.322057263
## 8676 0.36585366 0.53465347 0.4795803 0.49019234 0.505323871
## 8677 0.41463415 0.59653465 0.4727737 0.64113750 0.416798006
## 8678 0.62195122 0.52227723 0.4600113 0.64365295 0.363597515
## 8679 0.50000000 0.64108911 0.4557572 0.52527971 0.571690259
## 8680 0.43902439 0.61386139 0.5212706 0.49791304 0.481497683
## 8681 0.53658537 0.47524752 0.4619966 0.54277721 0.444779902
## 8682 0.47560976 0.52227723 0.5053885 0.52402530 0.521848191
## 8683 0.50000000 0.58168317 0.4659671 0.56103237 0.329245810
## 8684 0.35365854 0.47524752 0.4838344 0.55318009 0.447255115
## 8685 0.47560976 0.50495050 0.4883721 0.53597880 0.369437741
## 8686 0.43902439 0.42326733 0.4957459 0.37769674 0.471642012
## 8687 0.43902439 0.44306931 0.4685196 0.47940410 0.319699151
## 8688 0.31707317 0.71287129 0.4872377 0.50294665 0.514692664
## 8689 0.15853659 0.56930693 0.4804311 0.29371172 0.403811976
## 8690 0.43902439 0.37623762 0.5141804 0.41248245 0.391695230
## 8691 0.15853659 0.22772277 0.4804311 0.24254922 0.459567514
## 8692 0.63414634 0.36881188 0.4968803 0.48925611 0.661192294
## 8693 0.52439024 0.39851485 0.4719229 0.42470261 0.457067384
## 8694 0.52439024 0.53465347 0.4841180 0.55738679 0.539978311
## 8695 0.40243902 0.47772277 0.4863868 0.55163197 0.472522884
## 8696 0.58536585 0.25000000 0.4702212 0.51679743 0.482135537
## 8697 0.41463415 0.52722772 0.4897901 0.42624248 0.479824573
## 8698 0.58536585 0.46039604 0.5167328 0.45502296 0.569771394
## 8699 0.21951220 0.40594059 0.4900737 0.42369807 0.448431932
## 8700 0.46341463 0.61138614 0.4869541 0.57025360 0.396758281
## 8701 0.52439024 0.56683168 0.4809983 0.50961340 0.396046660
## 8702 0.71951220 0.42079208 0.4795803 0.53658219 0.483182528
## 8703 0.68292683 0.59158416 0.4849688 0.60270659 0.445348839
## 8704 0.36585366 0.56930693 0.4858196 0.49909664 0.401467290
## 8705 0.46341463 0.66089109 0.4835508 0.44609533 0.586955885
## 8706 0.62195122 0.35148515 0.4844016 0.60282003 0.757691329
## 8707 0.46341463 0.55693069 0.4849688 0.46646322 0.694192721
## 8708 0.52439024 0.58663366 0.4719229 0.44140054 0.454405349
## 8709 0.62195122 0.40594059 0.4716393 0.41536905 0.455259592
## 8710 0.43902439 0.63613861 0.4940442 0.48611242 0.470296130
## 8711 0.59756098 0.32178218 0.4914918 0.42458012 0.849682645
## 8712 0.69512195 0.59158416 0.4722065 0.61258672 0.520920207
## 8713 0.86585366 0.57178218 0.4736245 0.91639941 0.451231461
## 8714 0.31707317 0.48267327 0.5051049 0.39295009 0.344014980
```

```
## 8715 0.40243902 0.63613861 0.4792967 0.51877034 0.430408430
## 8716 0.62195122 0.19059406 0.4778786 0.49703105 0.500276395
## 8717 0.46341463 0.36633663 0.5150312 0.54093497 0.372788082
## 8718 0.46341463 0.52475248 0.4926262 0.53949249 0.618597309
## 8719 0.52439024 0.48514851 0.4319342 0.51468877 0.646968647
## 8720 0.52439024 0.55198020 0.4792967 0.64198883 0.457845022
## 8721 0.56097561 0.49504950 0.4895065 0.55389303 0.510582661
## 8722 0.50000000 0.53712871 0.4724901 0.55872011 0.471050933
## 8723 0.52439024 0.23267327 0.4914918 0.53708852 0.663851115
## 8724 0.36585366 0.61633663 0.4727737 0.34668098 0.429303317
## 8725 0.56097561 0.42574257 0.5039705 0.70006605 0.699816122
## 8726 0.65853659 0.55445545 0.4784458 0.73356474 0.526333752
## 8727 0.37804878 0.46287129 0.4517867 0.18950835 0.264063500
## 8728 0.58536585 0.47029703 0.4222915 0.61879098 0.479441650
## 8729 0.45121951 0.34405941 0.4838344 0.58005060 0.573592573
## 8730 0.43902439 0.70544554 0.4957459 0.51429291 0.509926346
## 8731 0.34146341 0.49504950 0.4878049 0.46159598 0.686735807
## 8732 0.50000000 0.28217822 0.4713556 0.47575951 0.326385694
## 8733 0.43902439 0.48762376 0.5062394 0.39792937 0.470919489
## 8734 0.50000000 0.45297030 0.4688032 0.55378688 0.585459718
## 8735 0.56097561 0.34653465 0.5144640 0.59729728 0.427998265
## 8736 0.40243902 0.64356436 0.4940442 0.21213810 0.438932275
## 8737 0.28048780 0.63861386 0.5008508 0.28846224 0.248200359
## 8738 0.28048780 0.65346535 0.4733409 0.36562468 0.190928477
## 8739 0.57317073 0.51237624 0.4968803 0.49406436 0.582012145
## 8740 0.19512195 0.31683168 0.4716393 0.21889224 0.456360697
## 8741 0.40243902 0.55693069 0.4781622 0.31763704 0.367152366
## 8742 0.78048780 0.33663366 0.4787294 0.63431636 0.388627257
## 8743 0.35365854 0.76485149 0.4832672 0.42594732 0.585804583
## 8744 0.50000000 0.68811881 0.4750425 0.46707310 0.399408608
## 8745 0.62195122 0.51980198 0.4994328 0.53689492 0.334024954
## 8746 0.50000000 0.43564356 0.4889393 0.38146264 0.303227866
## 8747 0.50000000 0.47772277 0.4526375 0.56699771 0.230540455
## 8748 0.53658537 0.49257426 0.4997164 0.45401670 0.580679969
## 8749 0.50000000 0.50247525 0.4588769 0.49841856 0.668643881
## 8750 0.52439024 0.47277228 0.4923426 0.43593334 0.591107424
## 8751 0.84146341 0.37128713 0.4682360 0.86769298 0.401191666
## 8752 0.52439024 0.57178218 0.4937606 0.47711905 0.433710149
## 8753 0.56097561 0.48267327 0.4787294 0.67927592 0.620771028
## 8754 0.43902439 0.52227723 0.4883721 0.47914262 0.527347691
## 8755 0.34146341 0.40346535 0.4988656 0.35524899 0.437544373
## 8756 0.52439024 0.33415842 0.5201361 0.41559057 0.460831119
## 8757 0.37804878 0.52970297 0.4940442 0.34645804 0.282601792
## 8758 0.52439024 0.25247525 0.5073738 0.54628765 0.527411538
## 8759 0.46341463 0.54950495 0.5008508 0.42279948 0.582426304
## 8760 0.32926829 0.54950495 0.4705048 0.50764317 0.412816772
## 8761 0.31707317 0.63613861 0.5062394 0.38657093 0.464597554
## 8762 0.37804878 0.32178218 0.4611458 0.52063220 0.555823912
## 8763 0.56097561 0.52722772 0.4767442 0.37899738 0.363580033
## 8764 0.68292683 0.48762376 0.4883721 0.64903770 0.460094028
## 8765 0.63414634 0.29207921 0.4671015 0.82366041 0.504382920
## 8766 0.59756098 0.31435644 0.5053885 0.47965496 0.853143919
## 8767 0.41463415 0.44059406 0.4770278 0.56299750 0.488634311
## 8768 0.71951220 0.56435644 0.4580261 0.64546224 0.519844221
## 8769 0.37804878 0.17574257 0.4878049 0.40345231 0.422053883
## 8770 0.50000000 0.50000000 0.4790130 0.53106997 0.249279105
## 8771 0.46341463 0.40594059 0.4784458 0.51028125 0.270431471
## 8772 0.18292683 0.50990099 0.4954623 0.17548522 0.576794945
```

```
## 8773 0.47560976 0.39851485 0.4835508 0.44711957 0.399834272
## 8774 0.52439024 0.63613861 0.4815655 0.52770270 0.506115978
## 8775 0.56097561 0.62376238 0.4792967 0.69285606 0.626141930
## 8776 0.50000000 0.75742574 0.4750425 0.51288819 0.505221550
## 8777 0.28048780 0.62623762 0.4826999 0.42390553 0.426553993
## 8778 0.52439024 0.43316832 0.4900737 0.64191064 0.355837018
## 8779 0.57317073 0.37623762 0.4866704 0.70735594 0.531095899
## 8780 0.74390244 0.43811881 0.4895065 0.60927601 0.501122697
## 8781 0.53658537 0.55198020 0.4863868 0.46679604 0.656882189
## 8782 0.28048780 0.50247525 0.4909246 0.21096242 0.681927197
## 8783 0.58536585 0.46039604 0.4764606 0.69041517 0.660007496
## 8784 0.53658537 0.47524752 0.4773114 0.61585869 0.482403850
## 8785 0.62195122 0.43564356 0.4920590 0.56359631 0.506688683
## 8786 0.30487805 0.52227723 0.4909246 0.31211128 0.437252781
## 8787 0.28048780 0.58663366 0.4824163 0.41566387 0.337407262
## 8788 0.69512195 0.54950495 0.4826999 0.68924378 0.312238647
## 8789 0.46341463 0.60148515 0.5031197 0.54322220 0.578828269
## 8790 0.56097561 0.64603960 0.4787294 0.49589633 0.364052835
## 8791 0.71951220 0.51980198 0.4883721 0.79969438 0.466142898
## 8792 0.53658537 0.32425743 0.4835508 0.43641581 0.548426256
## 8793 0.62195122 0.31683168 0.4858196 0.50866101 0.376594289
## 8794 0.47560976 0.35396040 0.4903573 0.43438317 0.323023424
## 8795 0.56097561 0.42574257 0.5005672 0.69493584 0.683951264
## 8796 0.71951220 0.48019802 0.4741917 0.60918535 0.755712248
## 8797 0.50000000 0.40841584 0.4824163 0.60730585 0.743560368
## 8798 0.47560976 0.64603960 0.4829836 0.42653439 0.504260473
## 8799 0.53658537 0.35643564 0.4778786 0.59516957 0.545621243
## 8800 0.58536585 0.50742574 0.4662507 0.43332379 0.404875864
## 8801 0.47560976 0.55940594 0.4821327 0.37918052 0.520443671
## 8802 0.40243902 0.74504950 0.4756098 0.42511734 0.525664126
## 8803 0.53658537 0.36138614 0.4869541 0.49567295 0.332885090
## 8804 0.50000000 0.62871287 0.4798639 0.52314520 0.339102385
## 8805 0.56097561 0.42574257 0.4804311 0.64646938 0.567347719
## 8806 0.53658537 0.41089109 0.4914918 0.50030303 0.463437857
## 8807 0.41463415 0.39356436 0.4863868 0.48211415 0.405889947
## 8808 0.78048780 0.53960396 0.4679524 0.83196829 0.344825432
## 8809 0.43902439 0.28960396 0.5073738 0.60874158 0.513740891
## 8810 0.59756098 0.60643564 0.4931934 0.54637796 0.221975220
## 8811 0.62195122 0.38613861 0.4897901 0.62621166 0.525753060
## 8812 0.60975610 0.42574257 0.4863868 0.53547786 0.488183136
## 8813 0.36585366 0.68316832 0.4722065 0.37909709 0.502772876
## 8814 0.47560976 0.49009901 0.4920590 0.50641172 0.584733453
## 8815 0.47560976 0.33168317 0.4812819 0.51559593 0.407925135
## 8816 0.68292683 0.17326733 0.4826999 0.66366174 0.890286328
## 8817 0.43902439 0.52722772 0.5073738 0.58812176 0.641460275
## 8818 0.56097561 0.29455446 0.4878049 0.54270661 0.441370771
## 8819 0.36585366 0.26732673 0.4988656 0.47482246 0.436821550
## 8820 0.52439024 0.40346535 0.4946115 0.38210268 0.471671222
## 8821 0.53658537 0.39603960 0.4872377 0.65197299 0.674709242
## 8822 0.43902439 0.59900990 0.4974475 0.57502807 0.686496655
## 8823 0.53658537 0.37623762 0.4929098 0.49816737 0.277051725
## 8824 0.74390244 0.40346535 0.4775950 0.73852559 0.762087374
## 8825 0.58536585 0.45544554 0.5110607 0.59556234 0.345137399
## 8826 0.63414634 0.51237624 0.4594441 0.69826466 0.224597581
## 8827 0.43902439 0.54702970 0.4940442 0.38730106 0.515757289
## 8828 0.35365854 0.49009901 0.5110607 0.44583168 0.436400412
## 8829 0.43902439 0.73762376 0.4798639 0.53348079 0.420261893
## 8830 0.52439024 0.46039604 0.5124787 0.45789013 0.512495150
```

```
## 8831 0.37804878 0.58663366 0.4900737 0.41412424 0.468383468
## 8832 0.43902439 0.28712871 0.4804311 0.62862896 0.508337783
## 8833 0.50000000 0.63613861 0.4741917 0.51733878 0.509772670
## 8834 0.21951220 0.36386139 0.5042541 0.13486816 0.630732374
## 8835 0.68292683 0.41584158 0.4974475 0.58812380 0.592359984
## 8836 0.47560976 0.57425743 0.4809983 0.55412512 0.488116703
## 8837 0.36585366 0.60148515 0.5087918 0.37652538 0.607536682
## 8838 0.78048780 0.52722772 0.4988656 0.76787723 0.588644660
## 8839 0.43902439 0.58910891 0.4475326 0.42241496 0.719036449
## 8840 0.31707317 0.49257426 0.5155984 0.35802129 0.426010733
## 8841 0.43902439 0.53217822 0.4642655 0.53749324 0.398289656
## 8842 0.34146341 0.72772277 0.4974475 0.40146852 0.478683895
## 8843 0.30487805 0.35891089 0.4707884 0.45875917 0.479822054
## 8844 0.56097561 0.33663366 0.4807147 0.51180673 0.417161066
## 8845 0.65853659 0.39108911 0.5011344 0.52147497 0.592461021
## 8846 0.52439024 0.48019802 0.4679524 0.55575201 0.293290993
## 8847 0.62195122 0.17574257 0.4963131 0.38690576 0.749453000
## 8848 0.43902439 0.50990099 0.4517867 0.48904268 0.363562925
## 8849 0.43902439 0.38861386 0.5048213 0.35637132 0.509968470
## 8850 0.43902439 0.74752475 0.4656835 0.46201860 0.382686036
## 8851 0.43902439 0.63366337 0.4937606 0.43307528 0.422543449
## 8852 0.58536585 0.49752475 0.4838344 0.38655961 0.328610819
## 8853 0.50000000 0.47277228 0.4982984 0.57219789 0.653629061
## 8854 0.46341463 0.47277228 0.4693704 0.41682440 0.439996721
## 8855 0.56097561 0.44554455 0.4946115 0.49053715 0.295939730
## 8856 0.59756098 0.28217822 0.4730573 0.80070927 0.354786069
## 8857 0.53658537 0.26732673 0.4926262 0.50223525 0.535234740
## 8858 0.56097561 0.50000000 0.4965967 0.42707929 0.473918138
## 8859 0.50000000 0.50742574 0.4665343 0.61555293 0.446493030
## 8860 0.21951220 0.46039604 0.4878049 0.29605204 0.473135367
## 8861 0.36585366 0.38118812 0.4951787 0.36527107 0.475405768
## 8862 0.40243902 0.64603960 0.4407260 0.48111640 0.437337743
## 8863 0.71951220 0.47029703 0.4878049 0.64397246 0.524999338
## 8864 0.62195122 0.43316832 0.4838344 0.62576807 0.493733188
## 8865 0.68292683 0.42079208 0.4934770 0.54636998 0.496924709
## 8866 0.52439024 0.32920792 0.4773114 0.41170233 0.361571498
## 8867 0.43902439 0.46287129 0.5226886 0.43508886 0.567837910
## 8868 0.56097561 0.47772277 0.4951787 0.56194120 0.590794455
## 8869 0.58536585 0.49009901 0.4815655 0.51644808 0.245525696
## 8870 0.28048780 0.70297030 0.5082246 0.30028235 0.459273103
## 8871 0.53658537 0.55693069 0.4795803 0.47874308 0.467048862
## 8872 0.62195122 0.47772277 0.4861032 0.72843053 0.471460412
## 8873 0.50000000 0.58910891 0.4841180 0.55680941 0.392395887
## 8874 0.53658537 0.27722772 0.4900737 0.49223153 0.540560431
## 8875 0.47560976 0.51980198 0.4866704 0.56307012 0.463046206
## 8876 0.40243902 0.59158416 0.4895065 0.48483080 0.459493840
## 8877 0.63414634 0.35643564 0.4883721 0.81608357 0.613767486
## 8878 0.69512195 0.54455446 0.4807147 0.50124119 0.434141225
## 8879 0.41463415 0.25990099 0.4897901 0.37080629 0.604758036
## 8880 0.52439024 0.46782178 0.4863868 0.56168502 0.477638758
## 8881 0.53658537 0.44554455 0.4855360 0.55412084 0.551210183
## 8882 0.63414634 0.62376238 0.4705048 0.55428588 0.539192244
## 8883 0.74390244 0.35643564 0.4844016 0.75546652 0.526276328
## 8884 0.58536585 0.32673267 0.4897901 0.47741543 0.493977834
## 8885 0.35365854 0.64851485 0.4838344 0.43285794 0.531290087
## 8886 0.40243902 0.59405941 0.4931934 0.48312196 0.590241971
## 8887 0.56097561 0.55198020 0.5127623 0.38015367 0.626482309
## 8888 0.78048780 0.80445545 0.4733409 0.76829532 0.207674630
```

```
## 8889 0.43902439 0.35396040 0.4861032 0.49955409 0.253260878
## 8890 0.56097561 0.49009901 0.4722065 0.46048046 0.503228282
## 8891 0.43902439 0.52475248 0.4861032 0.48787372 0.383390208
## 8892 0.50000000 0.39851485 0.4920590 0.60482917 0.420235975
## 8893 0.15853659 0.62871287 0.4838344 0.32272083 0.252423956
## 8894 0.59756098 0.53217822 0.4741917 0.65677702 0.552831470
## 8895 0.43902439 0.42821782 0.4804311 0.33839659 0.493371194
## 8896 0.43902439 0.44059406 0.5697674 0.34175456 0.349998613
## 8897 0.58536585 0.37623762 0.4710720 0.42890081 0.447862436
## 8898 0.62195122 0.31683168 0.4795803 0.53256823 0.727100667
## 8899 0.50000000 0.46782178 0.4792967 0.54412503 0.737490611
## 8900 0.56097561 0.34653465 0.4653999 0.67499709 0.612272246
## 8901 0.62195122 0.45792079 0.4591605 0.64033725 0.317382746
## 8902 0.71951220 0.30198020 0.4954623 0.65639317 0.446967202
## 8903 0.52439024 0.50990099 0.4659671 0.51722980 0.421189425
## 8904 0.37804878 0.64851485 0.5070902 0.34668629 0.602256508
## 8905 0.41463415 0.74752475 0.4778786 0.49847655 0.225540083
## 8906 0.43902439 0.47524752 0.4875213 0.48490754 0.311234437
## 8907 0.47560976 0.33663366 0.4991492 0.51281745 0.644685745
## 8908 0.75609756 0.25990099 0.4784458 0.63536573 0.564223731
## 8909 0.50000000 0.31683168 0.4965967 0.61504266 0.433036330
## 8910 0.52439024 0.28465347 0.4988656 0.32025745 0.408854709
## 8911 0.34146341 0.52722772 0.5065230 0.47125809 0.196451554
## 8912 0.40243902 0.60643564 0.4653999 0.51936525 0.537752730
## 8913 0.59756098 0.69554455 0.4982984 0.52461490 0.354214360
## 8914 0.47560976 0.53960396 0.4906410 0.48825819 0.515756635
## 8915 0.47560976 0.33910891 0.4931934 0.48266593 0.456174783
## 8916 0.47560976 0.64356436 0.4642655 0.53082607 0.172788344
## 8917 0.40243902 0.61386139 0.4909246 0.38142023 0.474388666
## 8918 0.43902439 0.32920792 0.5028361 0.42641601 0.417901775
## 8919 0.52439024 0.43811881 0.4838344 0.50259330 0.597294683
## 8920 0.50000000 0.57673267 0.4832672 0.50684404 0.436717872
## 8921 0.50000000 0.36881188 0.5008508 0.46317111 0.187398190
## 8922 0.52439024 0.39603960 0.4804311 0.50039631 0.287843098
## 8923 0.43902439 0.42574257 0.4826999 0.58668316 0.262097571
## 8924 0.43902439 0.47772277 0.4767442 0.52663588 0.370504527
## 8925 0.59756098 0.51980198 0.4869541 0.57340483 0.391295682
## 8926 0.41463415 0.50990099 0.4795803 0.48941297 0.486096192
## 8927 0.47560976 0.34158416 0.4801475 0.59822105 0.554839748
## 8928 0.46341463 0.62871287 0.4696540 0.50530632 0.419597820
## 8929 0.52439024 0.45544554 0.4872377 0.52890936 0.273912264
## 8930 0.45121951 0.54455446 0.4963131 0.41830957 0.489316417
## 8931 0.56097561 0.75495050 0.4727737 0.58791753 0.492349475
## 8932 0.47560976 0.37871287 0.4588769 0.59009186 0.300829607
## 8933 0.50000000 0.68069307 0.4605786 0.51892077 0.204154523
## 8934 0.52439024 0.45544554 0.4826999 0.54023699 0.537501358
## 8935 0.62195122 0.29207921 0.4829836 0.48983736 0.409188413
## 8936 0.56097561 0.42079208 0.5714691 0.41303367 0.411015444
## 8937 0.62195122 0.41584158 0.4807147 0.69442755 0.646676218
## 8938 0.41463415 0.51237624 0.4778786 0.50891445 0.617211102
## 8939 0.65853659 0.20792079 0.4495179 0.57731567 0.655631836
## 8940 0.36585366 0.34900990 0.5025525 0.45940062 0.360172500
## 8941 0.78048780 0.46287129 0.4886557 0.85238739 0.443989987
## 8942 0.43902439 0.57425743 0.4804311 0.51476338 0.584582389
## 8943 0.62195122 0.47277228 0.4855360 0.54190913 0.598367289
## 8944 0.37804878 0.46039604 0.4866704 0.43175556 0.554837775
## 8945 0.43902439 0.62871287 0.4781622 0.65030522 0.585249970
## 8946 0.24390244 0.67574257 0.4917754 0.37085467 0.381385142
```

```
## 8947 0.53658537 0.49257426 0.5014180 0.51529470 0.664350725
## 8948 0.62195122 0.51485149 0.4849688 0.58864857 0.374726742
## 8949 0.50000000 0.54950495 0.5099263 0.39309105 0.438571011
## 8950 0.65853659 0.34653465 0.4971639 0.62674209 0.666146866
## 8951 0.31707317 0.55445545 0.4784458 0.48917082 0.466475026
## 8952 0.58536585 0.55693069 0.4909246 0.51703634 0.579996920
## 8953 0.56097561 0.47772277 0.4946115 0.56183743 0.589830290
## 8954 0.30487805 0.65099010 0.4971639 0.21011452 0.502086318
## 8955 0.62195122 0.43069307 0.4815655 0.58561241 0.487823954
## 8956 0.43902439 0.49009901 0.4761770 0.51590541 0.648748006
## 8957 0.42682927 0.59653465 0.5136132 0.53149840 0.427159513
## 8958 0.50000000 0.53465347 0.4957459 0.41581807 0.615589428
## 8959 0.63414634 0.39851485 0.4773114 0.53401614 0.311475434
## 8960 0.40243902 0.33415842 0.4807147 0.61215417 0.321399052
## 8961 0.56097561 0.58910891 0.4744753 0.64263649 0.640309612
## 8962 0.65853659 0.30693069 0.4696540 0.55068378 0.385396783
## 8963 0.56097561 0.52475248 0.4948951 0.54176764 0.561501511
## 8964 0.34146341 0.69306931 0.4829836 0.39143411 0.381885380
## 8965 0.30487805 0.68316832 0.4875213 0.22200851 0.393726069
## 8966 0.62195122 0.51980198 0.4849688 0.68549094 0.322367543
## 8967 0.36585366 0.56435644 0.4730573 0.51739691 0.278914175
## 8968 0.40243902 0.52475248 0.4946115 0.39505054 0.658200194
## 8969 0.50000000 0.56930693 0.4682360 0.56328547 0.501585015
## 8970 0.37804878 0.57178218 0.4866704 0.49784869 0.538533882
## 8971 0.34146341 0.61138614 0.4832672 0.28934834 0.436341714
## 8972 0.46341463 0.55940594 0.4829836 0.45057894 0.398036077
## 8973 0.50000000 0.56683168 0.4954623 0.46483795 0.652182290
## 8974 0.40243902 0.54207921 0.4861032 0.39971179 0.430944343
## 8975 0.46341463 0.61138614 0.4858196 0.56784293 0.396499243
## 8976 0.47560976 0.37871287 0.4849688 0.48542751 0.577021908
## 8977 0.37804878 0.63118812 0.4792967 0.49083011 0.495933569
## 8978 0.62195122 0.30940594 0.4940442 0.45703926 0.629991778
## 8979 0.65853659 0.46782178 0.4594441 0.60337605 0.794318119
## 8980 0.58536585 0.44059406 0.4778786 0.54423414 0.458842393
## 8981 0.62195122 0.35891089 0.4875213 0.54225552 0.681998444
## 8982 0.52439024 0.47524752 0.4826999 0.63113549 0.535888866
## 8983 0.37804878 0.52475248 0.4634146 0.34501406 0.490297101
## 8984 0.50000000 0.10396040 0.4963131 0.53586401 0.480505399
## 8985 0.56097561 0.46782178 0.4673851 0.60341480 0.408468766
## 8986 0.52439024 0.41584158 0.5121951 0.47713878 0.623237928
## 8987 0.53658537 0.32425743 0.4943279 0.56461747 0.600741030
## 8988 0.50000000 0.63118812 0.4897901 0.54534022 0.552566827
## 8989 0.34146341 0.56435644 0.4965967 0.32603117 0.360941918
## 8990 0.60975610 0.55940594 0.4937606 0.55093185 0.526573996
## 8991 0.78048780 0.55940594 0.4861032 0.56163838 0.329605858
## 8992 0.53658537 0.45792079 0.4645491 0.44603597 0.362528461
## 8993 0.31707317 0.60148515 0.5104935 0.31764674 0.516852438
## 8994 0.53658537 0.46782178 0.5221214 0.44611673 0.679288955
## 8995 0.50000000 0.50000000 0.4693704 0.50560926 0.369518922
## 8996 0.41463415 0.32178218 0.4767442 0.42972856 0.196493340
## 8997 0.47560976 0.45297030 0.4886557 0.48124758 0.620594486
## 8998 0.37804878 0.52227723 0.4673851 0.53969012 0.237827818
## 8999 0.62195122 0.39356436 0.4940442 0.58715396 0.471875017
## 9000 0.71951220 0.56188119 0.4475326 0.56210860 0.424330966
## 9001 0.46341463 0.49752475 0.4914918 0.62065144 0.506457444
## 9002 0.59756098 0.25247525 0.5036869 0.63594140 0.321988061
## 9003 0.53658537 0.42821782 0.5141804 0.49977492 0.593352372
## 9004 0.36585366 0.56683168 0.4883721 0.40048482 0.354125144
```

```
## 9005 0.56097561 0.54950495 0.4832672 0.56598102 0.502216493
## 9006 0.68292683 0.55198020 0.5011344 0.49796241 0.375741900
## 9007 0.31707317 0.55693069 0.4744753 0.38264342 0.369593215
## 9008 0.37804878 0.50742574 0.5036869 0.39244607 0.703247516
## 9009 0.58536585 0.37128713 0.5102099 0.41371910 0.630498063
## 9010 0.58536585 0.34900990 0.4951787 0.55700429 0.490095783
## 9011 0.37804878 0.48267327 0.4705048 0.47407256 0.697716078
## 9012 0.56097561 0.59900990 0.5068066 0.47770729 0.418428908
## 9013 0.43902439 0.28465347 0.4991492 0.55273630 0.551440935
## 9014 0.59756098 0.35396040 0.4631310 0.58658599 0.453459529
## 9015 0.37804878 0.47277228 0.4795803 0.56689610 0.428056518
## 9016 0.65853659 0.45297030 0.4895065 0.56741378 0.569227274
## 9017 0.74390244 0.23267327 0.4705048 0.65117077 0.690707254
## 9018 0.47560976 0.48267327 0.4861032 0.51089447 0.381537985
## 9019 0.67073171 0.38861386 0.5000000 0.49932914 0.536146392
## 9020 0.56097561 0.58415842 0.4875213 0.52873276 0.533796254
## 9021 0.34146341 0.40841584 0.5147476 0.43579402 0.509182175
## 9022 0.57317073 0.50990099 0.4832672 0.52469803 0.539370254
## 9023 0.36585366 0.51237624 0.4920590 0.38691928 0.378717578
## 9024 0.40243902 0.32425743 0.4775950 0.50900388 0.437288817
## 9025 0.56097561 0.50990099 0.4931934 0.49099514 0.385702292
## 9026 0.43902439 0.66336634 0.4957459 0.38398151 0.526879512
## 9027 0.43902439 0.54455446 0.5082246 0.39454104 0.377220470
## 9028 0.34146341 0.54455446 0.4710720 0.48558421 0.350242329
## 9029 0.52439024 0.43316832 0.4750425 0.36526419 0.308921275
## 9030 0.56097561 0.51237624 0.4866704 0.41908548 0.680346180
## 9031 0.53658537 0.60891089 0.4809983 0.46299623 0.323029730
## 9032 0.56097561 0.52722772 0.4985820 0.46955103 0.532273778
## 9033 0.28048780 0.62623762 0.4826999 0.42194441 0.423114275
## 9034 0.41463415 0.40841584 0.4730573 0.47023097 0.443407195
## 9035 0.68292683 0.27722772 0.4750425 0.66094774 0.545523993
## 9036 0.47560976 0.48762376 0.4906410 0.64204224 0.544812786
## 9037 0.62195122 0.36386139 0.4963131 0.43151459 0.410345371
## 9038 0.25609756 0.43811881 0.4824163 0.37658624 0.495342083
## 9039 0.52439024 0.38613861 0.4761770 0.65337914 0.524345697
## 9040 0.43902439 0.52475248 0.4724901 0.62576112 0.546005478
## 9041 0.64634146 0.50000000 0.4869541 0.67687513 0.571187522
## 9042 0.62195122 0.51732673 0.4988656 0.53357822 0.334563309
## 9043 0.59756098 0.39851485 0.4744753 0.54653563 0.719515935
## 9044 0.35365854 0.32425743 0.4946115 0.33495261 0.594755557
## 9045 0.47560976 0.44554455 0.4940442 0.50743902 0.420931921
## 9046 0.35365854 0.70049505 0.4982984 0.48125205 0.504480994
## 9047 0.53658537 0.51485149 0.4988656 0.58496779 0.603829747
## 9048 0.56097561 0.39356436 0.5096427 0.44932456 0.444290336
## 9049 0.56097561 0.37871287 0.4855360 0.47864840 0.470678226
## 9050 0.56097561 0.25495050 0.5039705 0.38910719 0.497609516
## 9051 0.58536585 0.50000000 0.4254112 0.63712786 0.490603912
## 9052 0.37804878 0.53960396 0.4770278 0.50394345 0.499964294
## 9053 0.56097561 0.38118812 0.4801475 0.46005975 0.450299296
## 9054 0.60975610 0.43316832 0.4821327 0.40372062 0.382828565
## 9055 0.31707317 0.57425743 0.4770278 0.42646546 0.382223039
## 9056 0.52439024 0.54207921 0.4920590 0.54004559 0.612805681
## 9057 0.53658537 0.55940594 0.5087918 0.51651569 0.512893472
## 9058 0.40243902 0.63861386 0.4639818 0.57692025 0.569793839
## 9059 0.50000000 0.52475248 0.4809983 0.50429338 0.432448724
## 9060 0.69512195 0.45297030 0.4580261 0.61153259 0.521367581
## 9061 0.28048780 0.40841584 0.4651163 0.28495439 0.459804109
## 9062 0.53658537 0.47277228 0.4929098 0.54692057 0.517689989
```

519

```
## 9063 0.52439024 0.39851485 0.4631310 0.42564944 0.447608997
## 9064 0.62195122 0.65099010 0.4455474 0.52428731 0.522922252
## 9065 0.59756098 0.69306931 0.4614294 0.48592901 0.334888892
## 9066 0.37804878 0.22029703 0.4758934 0.46378115 0.519500704
## 9067 0.50000000 0.57425743 0.4832672 0.49922901 0.368909659
## 9068 0.41463415 0.50000000 0.5263755 0.40547965 0.536270735
## 9069 0.42682927 0.44059406 0.4815655 0.56165588 0.375510751
## 9070 0.68292683 0.33415842 0.4778786 0.51184287 0.384435147
## 9071 0.41463415 0.64356436 0.4585933 0.47864617 0.352082200
## 9072 0.58536585 0.48514851 0.4892229 0.55093450 0.695318186
## 9073 0.47560976 0.37128713 0.5090754 0.46158315 0.505998489
## 9074 0.69512195 0.34405941 0.4421441 0.76840284 0.535371383
## 9075 0.46341463 0.32920792 0.5008508 0.41791126 0.395479871
## 9076 0.59756098 0.50990099 0.4619966 0.56475771 0.334458740
## 9077 0.37804878 0.48267327 0.4549064 0.40658108 0.560406014
## 9078 0.74390244 0.69801980 0.4608622 0.54356841 0.261778264
## 9079 0.28048780 0.46287129 0.5005672 0.49515021 0.539431855
## 9080 0.43902439 0.48514851 0.5042541 0.54489936 0.540040244
## 9081 0.52439024 0.39603960 0.5011344 0.46755259 0.663199759
## 9082 0.34146341 0.66336634 0.5002836 0.19146326 0.428675309
## 9083 0.52439024 0.32178218 0.4900737 0.45967257 0.371860967
## 9084 0.52439024 0.56930693 0.5099263 0.41110375 0.396433551
## 9085 0.31707317 0.53960396 0.4622802 0.40549041 0.512205081
## 9086 0.52439024 0.40594059 0.4954623 0.55840007 0.515492927
## 9087 0.52439024 0.18811881 0.5121951 0.47225345 0.505706228
## 9088 0.34146341 0.53217822 0.5011344 0.37986234 0.498215749
## 9089 0.64634146 0.41336634 0.5124787 0.56733949 0.466513600
## 9090 0.47560976 0.53960396 0.4875213 0.58703993 0.536837618
## 9091 0.56097561 0.32673267 0.4815655 0.58300025 0.519717672
## 9092 0.47560976 0.69801980 0.4733409 0.43999781 0.591696739
## 9093 0.50000000 0.46534653 0.4991492 0.38806916 0.377851225
## 9094 0.46341463 0.57920792 0.4472490 0.34087753 0.455090829
## 9095 0.71951220 0.28217822 0.4790130 0.67660432 0.458841816
## 9096 0.65853659 0.35891089 0.4866704 0.60155996 0.635236521
## 9097 0.52439024 0.46287129 0.4878049 0.48657571 0.277768204
## 9098 0.53658537 0.31930693 0.4929098 0.44533003 0.456976659
## 9099 0.50000000 0.50247525 0.4948951 0.35755635 0.499465881
## 9100 0.40243902 0.63366337 0.4844016 0.55761161 0.694196904
## 9101 0.47560976 0.51732673 0.4747589 0.62527211 0.376920123
## 9102 0.40243902 0.43069307 0.4844016 0.52322606 0.548985227
## 9103 0.59756098 0.53465347 0.4858196 0.56182956 0.540935355
## 9104 0.56097561 0.59158416 0.4929098 0.65419680 0.500797079
## 9105 0.56097561 0.44306931 0.4707884 0.41908626 0.443679969
## 9106 0.52439024 0.24257426 0.4889393 0.30918174 0.391279021
## 9107 0.50000000 0.73267327 0.4744753 0.53631536 0.546875856
## 9108 0.47560976 0.31930693 0.5073738 0.35024654 0.414394032
## 9109 0.30487805 0.51237624 0.4736245 0.56070359 0.403762264
## 9110 0.71951220 0.47029703 0.4730573 0.84020180 0.364400228
## 9111 0.52439024 0.43069307 0.4872377 0.63877328 0.361649316
## 9112 0.65853659 0.41336634 0.4855360 0.54441683 0.578738917
## 9113 0.65853659 0.48019802 0.4812819 0.63641139 0.504475892
## 9114 0.50000000 0.51980198 0.5008508 0.47307890 0.527048558
## 9115 0.43902439 0.61633663 0.4846852 0.35831808 0.483628470
## 9116 0.43902439 0.45297030 0.4427113 0.43836868 0.528998174
## 9117 0.58536585 0.45049505 0.4889393 0.58519854 0.532935542
## 9118 0.41463415 0.40346535 0.4710720 0.49361145 0.240127159
## 9119 0.43902439 0.35891089 0.4909246 0.42102753 0.244552962
## 9120 0.50000000 0.40346535 0.4946115 0.35061804 0.394473858
```

520

```
## 9121 0.41463415 0.51237624 0.4897901 0.53136982 0.458016094
## 9122 0.59756098 0.37128713 0.4739081 0.69348536 0.355826100
## 9123 0.37804878 0.30445545 0.4778786 0.47610704 0.350709159
## 9124 0.56097561 0.48762376 0.4889393 0.67822823 0.559797406
## 9125 0.52439024 0.25742574 0.5042541 0.45998828 0.516818078
## 9126 0.65853659 0.32425743 0.5164492 0.50488030 0.524288248
## 9127 0.35365854 0.46039604 0.5017016 0.18660834 0.525838351
## 9128 0.37804878 0.46287129 0.4858196 0.46483302 0.346859305
## 9129 0.65853659 0.29950495 0.4679524 0.56835775 0.352626858
## 9130 0.50000000 0.58663366 0.5011344 0.50041246 0.545368667
## 9131 0.40243902 0.32673267 0.4875213 0.48580695 0.550002563
## 9132 0.41463415 0.32178218 0.4758934 0.43128424 0.197597801
## 9133 0.52439024 0.48019802 0.4744753 0.59684093 0.558633162
## 9134 0.71951220 0.44306931 0.4844016 0.82592667 0.482880661
## 9135 0.87804878 0.39356436 0.4866704 0.85500997 0.476319775
## 9136 0.59756098 0.46534653 0.4869541 0.45635708 0.351615027
## 9137 0.36585366 0.45049505 0.4838344 0.38214187 0.398284638
## 9138 0.43902439 0.45792079 0.4849688 0.46104331 0.521680414
## 9139 0.37804878 0.26237624 0.4804311 0.28906302 0.410127148
## 9140 0.31707317 0.62623762 0.4809983 0.33763110 0.307005183
## 9141 0.47560976 0.42079208 0.4977311 0.47770249 0.519870647
## 9142 0.46341463 0.65841584 0.4832672 0.51150575 0.409208957
## 9143 0.58536585 0.55693069 0.4821327 0.51651082 0.341957492
## 9144 0.50000000 0.38613861 0.4662507 0.61549809 0.480999744
## 9145 0.46341463 0.37871287 0.4948951 0.46613294 0.360372152
## 9146 0.41463415 0.45544554 0.4787294 0.37910067 0.398640369
## 9147 0.78048780 0.37128713 0.4693704 0.79510609 0.421817145
## 9148 0.62195122 0.44801980 0.4824163 0.60045331 0.586584161
## 9149 0.47560976 0.58168317 0.4841180 0.69179812 0.588997527
## 9150 0.50000000 0.30940594 0.4875213 0.54424161 0.533132478
## 9151 0.47560976 0.61386139 0.4809983 0.54432598 0.565582104
## 9152 0.50000000 0.28217822 0.4764606 0.58419392 0.520185697
## 9153 0.74390244 0.77475248 0.4807147 0.89123624 0.531609362
## 9154 0.47560976 0.33415842 0.4838344 0.38956162 0.285511635
## 9155 0.62195122 0.56930693 0.4818491 0.54491789 0.379294571
## 9156 0.40243902 0.38118812 0.4875213 0.45675185 0.503741554
## 9157 0.71951220 0.51237624 0.4968803 0.61411213 0.436914973
## 9158 0.41463415 0.60891089 0.4841180 0.63372427 0.523503705
## 9159 0.52439024 0.46287129 0.4861032 0.46259051 0.334642382
## 9160 0.52439024 0.43811881 0.4798639 0.46944859 0.507089191
## 9161 0.43902439 0.68316832 0.4869541 0.49421098 0.584411921
## 9162 0.56097561 0.34900990 0.4693704 0.66612873 0.591727503
## 9163 0.43902439 0.51485149 0.4750425 0.56395811 0.480763868
## 9164 0.19512195 0.64356436 0.4872377 0.38876735 0.190792140
## 9165 0.43902439 0.28960396 0.4912082 0.42725557 0.510896298
## 9166 0.52439024 0.43316832 0.4770278 0.46659882 0.379219287
## 9167 0.52439024 0.34405941 0.4974475 0.49523103 0.533373982
## 9168 0.31707317 0.64851485 0.4968803 0.44365692 0.480535368
## 9169 0.50000000 0.44059406 0.4787294 0.60142740 0.482621705
## 9170 0.50000000 0.54455446 0.4583097 0.56569786 0.411787633
## 9171 0.47560976 0.70049505 0.4756098 0.44285848 0.592006201
## 9172 0.25609756 0.16336634 0.4744753 0.23261808 0.508713220
## 9173 0.36585366 0.53712871 0.4929098 0.46960291 0.630210251
## 9174 0.34146341 0.59653465 0.5283607 0.19242985 0.327207400
## 9175 0.68292683 0.44059406 0.4872377 0.53734109 0.530398133
## 9176 0.65853659 0.45297030 0.4897901 0.46315859 0.492308568
## 9177 0.46341463 0.60396040 0.4730573 0.50066189 0.215541274
## 9178 0.59756098 0.32425743 0.5008508 0.51940653 0.443760308
```

```
## 9179 0.56097561 0.26237624 0.4659671 0.66431413 0.488845443
## 9180 0.52439024 0.50495050 0.4821327 0.44678512 0.474992808
## 9181 0.53658537 0.25742574 0.4736245 0.52422831 0.400556306
## 9182 0.47560976 0.56435644 0.4895065 0.52728339 0.575585278
## 9183 0.58536585 0.31930693 0.4685196 0.55859026 0.437693493
## 9184 0.43902439 0.29455446 0.4807147 0.52195748 0.395930309
## 9185 0.59756098 0.60891089 0.4829836 0.51808923 0.393128529
## 9186 0.59756098 0.32673267 0.4844016 0.64341056 0.538278680
## 9187 0.56097561 0.41584158 0.4872377 0.48483377 0.570533180
## 9188 0.68292683 0.30693069 0.4886557 0.66766022 0.634208032
## 9189 0.37804878 0.55693069 0.4929098 0.53741299 0.455588764
## 9190 0.56097561 0.44306931 0.4872377 0.61195927 0.555071710
## 9191 0.50000000 0.79455446 0.4866704 0.47736344 0.499790490
## 9192 0.40243902 0.56435644 0.4957459 0.31262022 0.588727064
## 9193 0.34146341 0.59653465 0.4861032 0.44689237 0.461931997
## 9194 0.46341463 0.59158416 0.4815655 0.39894484 0.323151244
## 9195 0.40243902 0.55693069 0.4829836 0.24674720 0.406814283
## 9196 0.53658537 0.44306931 0.4855360 0.55397183 0.547164174
## 9197 0.40243902 0.34158416 0.4920590 0.50915581 0.429129769
## 9198 0.71951220 0.59900990 0.4838344 0.56358640 0.477084911
## 9199 0.30487805 0.50000000 0.4736245 0.32181922 0.412301897
## 9200 0.41463415 0.53465347 0.4883721 0.50890738 0.400216377
## 9201 0.36585366 0.39603960 0.4931934 0.49502922 0.460992961
## 9202 0.53658537 0.55693069 0.4878049 0.61455102 0.571169474
## 9203 0.52439024 0.49752475 0.4838344 0.59639194 0.554567134
## 9204 0.53658537 0.33910891 0.4869541 0.59187225 0.430748428
## 9205 0.40243902 0.61386139 0.4705048 0.57315702 0.163958800
## 9206 0.47560976 0.59653465 0.4764606 0.51885440 0.480806094
## 9207 0.53658537 0.56188119 0.4824163 0.51608457 0.479717625
## 9208 0.56097561 0.21782178 0.4883721 0.43650119 0.406490691
## 9209 0.65853659 0.29455446 0.4892229 0.55657773 0.579556089
## 9210 0.84146341 0.64851485 0.4705048 0.91186639 0.402741738
## 9211 0.41463415 0.60643564 0.4985820 0.35025683 0.432265080
## 9212 0.58536585 0.39851485 0.4804311 0.36407358 0.392343508
## 9213 0.53658537 0.38613861 0.4906410 0.52889145 0.276515185
## 9214 0.62195122 0.42821782 0.4940442 0.42558377 0.591637159
## 9215 0.24390244 0.28465347 0.5045377 0.26754950 0.773331661
## 9216 0.56097561 0.25247525 0.4744753 0.46276734 0.350216511
## 9217 0.41463415 0.35891089 0.5031197 0.48581808 0.499852515
## 9218 0.52439024 0.25495050 0.4931934 0.51752955 0.525100574
## 9219 0.41463415 0.44059406 0.4880885 0.35354837 0.397401454
## 9220 0.74390244 0.16831683 0.4863868 0.58769328 0.684454989
## 9221 0.50000000 0.38366337 0.4937606 0.54145603 0.582506401
## 9222 0.52439024 0.27475248 0.4804311 0.42940415 0.426759750
## 9223 0.21951220 0.63613861 0.4844016 0.28108719 0.441980880
## 9224 0.43902439 0.57425743 0.4801475 0.51198203 0.577676161
## 9225 0.56097561 0.41831683 0.4804311 0.54396494 0.492655778
## 9226 0.50000000 0.49009901 0.4730573 0.61117393 0.485539676
## 9227 0.69512195 0.60148515 0.4756098 0.84395684 0.437338614
## 9228 0.52439024 0.53217822 0.4784458 0.45548926 0.526975046
## 9229 0.50000000 0.51485149 0.4903573 0.46335877 0.479905548
## 9230 0.31707317 0.76732673 0.4724901 0.48324509 0.249500624
## 9231 0.65853659 0.30940594 0.4897901 0.56159810 0.519784692
## 9232 0.78048780 0.59405941 0.4838344 0.90812376 0.533015163
## 9233 0.56097561 0.32673267 0.4815655 0.57793749 0.475697713
## 9234 0.62195122 0.39603960 0.4931934 0.50388372 0.444512760
## 9235 0.41463415 0.60891089 0.4809983 0.53560280 0.460407971
## 9236 0.37804878 0.11138614 0.5008508 0.19957103 0.679285391
```

```
## 9237 0.68292683 0.27722772 0.4733409 0.66059005 0.535944481
## 9238 0.86585366 0.58415842 0.4909246 0.79301492 0.527971179
## 9239 0.50000000 0.41584158 0.4926262 0.34678321 0.348908186
## 9240 0.52439024 0.37623762 0.4064095 0.46359925 0.398300361
## 9241 0.50000000 0.75495050 0.4946115 0.50078824 0.549688980
## 9242 0.56097561 0.58415842 0.4568917 0.34814413 0.469270840
## 9243 0.56097561 0.34158416 0.4775950 0.65465260 0.517742289
## 9244 0.52439024 0.29207921 0.5002836 0.47205609 0.764501529
## 9245 0.62195122 0.46039604 0.4713556 0.48047695 0.450025256
## 9246 0.52439024 0.22029703 0.5751560 0.45876138 0.458637439
## 9247 0.25609756 0.16584158 0.4781622 0.23409136 0.507385798
## 9248 0.57317073 0.46039604 0.4929098 0.50710641 0.236959793
## 9249 0.28048780 0.61633663 0.5005672 0.29961598 0.550012977
## 9250 0.52439024 0.56188119 0.4846852 0.52549642 0.561775347
## 9251 0.31707317 0.60148515 0.4710720 0.35964909 0.477396084
## 9252 0.56097561 0.51237624 0.4960295 0.41744676 0.619631249
## 9253 0.53658537 0.34900990 0.4968803 0.50366963 0.408012621
## 9254 0.40243902 0.57425743 0.4940442 0.49591822 0.378367982
## 9255 0.43902439 0.34158416 0.4690868 0.60469078 0.688170363
## 9256 0.37804878 0.50495050 0.4571753 0.21900780 0.300102988
## 9257 0.37804878 0.62871287 0.4741917 0.52754627 0.470736294
## 9258 0.35365854 0.43564356 0.4546228 0.49337642 0.438126069
## 9259 0.40243902 0.62623762 0.4662507 0.48901789 0.534179273
## 9260 0.53658537 0.42079208 0.4855360 0.42888950 0.349041772
## 9261 0.40243902 0.51485149 0.5031197 0.49225090 0.274157210
## 9262 0.52439024 0.55445545 0.5215542 0.57950002 0.345406584
## 9263 0.43902439 0.57920792 0.4682360 0.55257523 0.369178944
## 9264 0.43902439 0.45297030 0.4727737 0.50880453 0.403832657
## 9265 0.47560976 0.45049505 0.4807147 0.33753459 0.364054941
## 9266 0.43902439 0.46287129 0.4980147 0.41093087 0.552931407
## 9267 0.65853659 0.41831683 0.4866704 0.50652166 0.473407947
## 9268 0.36585366 0.60396040 0.4878049 0.36585685 0.326000987
## 9269 0.50000000 0.31188119 0.4685196 0.48089206 0.411021435
## 9270 0.37804878 0.58663366 0.4429949 0.41497284 0.359455307
## 9271 0.84146341 0.30693069 0.4812819 0.66723753 0.684382175
## 9272 0.58536585 0.61386139 0.4812819 0.63828839 0.610894099
## 9273 0.56097561 0.24257426 0.5000000 0.46531546 0.426284830
## 9274 0.50000000 0.31188119 0.4722065 0.61792016 0.380411542
## 9275 0.46341463 0.43316832 0.4444129 0.60271015 0.715046220
## 9276 0.31707317 0.61881188 0.4943279 0.20238201 0.355574690
## 9277 0.50000000 0.31435644 0.5087918 0.46620300 0.571415591
## 9278 0.52439024 0.26980198 0.4934770 0.47902105 0.612346675
## 9279 0.29268293 0.73514851 0.4912082 0.47572112 0.588818042
## 9280 0.40243902 0.44801980 0.4585933 0.62817919 0.459316015
## 9281 0.58536585 0.43811881 0.4861032 0.37856230 0.386358100
## 9282 0.35365854 0.61138614 0.4971639 0.41221955 0.496146732
## 9283 0.64634146 0.47772277 0.4991492 0.56749960 0.554114624
## 9284 0.50000000 0.50000000 0.4957459 0.35696807 0.499181809
## 9285 0.53658537 0.70544554 0.4713556 0.53932169 0.258786886
## 9286 0.50000000 0.40346535 0.4971639 0.62907590 0.608785289
## 9287 0.71951220 0.40099010 0.4705048 0.66184687 0.399024620
## 9288 0.46341463 0.50495050 0.5000000 0.43903903 0.357068216
## 9289 0.53658537 0.51485149 0.4733409 0.57456096 0.475064059
## 9290 0.50000000 0.64603960 0.4693704 0.45668034 0.317530347
## 9291 0.50000000 0.51732673 0.4832672 0.44533080 0.432908461
## 9292 0.46341463 0.39851485 0.4883721 0.44916586 0.582229746
## 9293 0.37804878 0.41336634 0.4137833 0.49479520 0.442436479
## 9294 0.28048780 0.26732673 0.5042541 0.28199494 0.717719235
```

```
## 9295 0.43902439 0.46534653 0.4974475 0.43385113 0.438542602
## 9296 0.59756098 0.38118812 0.5263755 0.50554896 0.405293068
## 9297 0.43902439 0.34405941 0.4988656 0.51185973 0.330167062
## 9298 0.56097561 0.66089109 0.4705048 0.72230469 0.428368077
## 9299 0.50000000 0.37623762 0.4948951 0.45143155 0.417325750
## 9300 0.37804878 0.48267327 0.4588769 0.40576879 0.555031320
## 9301 0.47560976 0.55198020 0.4948951 0.43586002 0.487064137
## 9302 0.40243902 0.41336634 0.5167328 0.49397820 0.272537663
## 9303 0.37804878 0.53960396 0.4781622 0.50131322 0.498396481
## 9304 0.54878049 0.50990099 0.5017016 0.42438597 0.509064426
## 9305 0.53658537 0.50247525 0.4583097 0.59973987 0.510598934
## 9306 0.65853659 0.44059406 0.4943279 0.66318056 0.684225825
## 9307 0.78048780 0.34158416 0.5002836 0.63517641 0.773499592
## 9308 0.78048780 0.53217822 0.4730573 0.83748102 0.503129678
## 9309 0.47560976 0.38118812 0.4775950 0.49685561 0.423636895
## 9310 0.65853659 0.34900990 0.4951787 0.64520810 0.446642414
## 9311 0.52439024 0.40346535 0.5056721 0.26324733 0.641813535
## 9312 0.41463415 0.57178218 0.4719229 0.51921561 0.478499874
## 9313 0.37804878 0.40346535 0.4801475 0.61502921 0.505906306
## 9314 0.50000000 0.52475248 0.4826999 0.52977982 0.380650457
## 9315 0.43902439 0.56435644 0.4971639 0.38753321 0.516448320
## 9316 0.71951220 0.23762376 0.4747589 0.70656986 0.748287399
## 9317 0.71951220 0.40841584 0.4625638 0.64980412 0.397004011
## 9318 0.50000000 0.47277228 0.4965967 0.56911380 0.654063857
## 9319 0.46341463 0.49009901 0.4671015 0.43824597 0.251150181
## 9320 0.56097561 0.41089109 0.4829836 0.58089849 0.704015479
## 9321 0.56097561 0.64603960 0.4900737 0.67591461 0.450744750
## 9322 0.68292683 0.42079208 0.4931934 0.54690985 0.493709741
## 9323 0.43902439 0.31683168 0.4960295 0.47016135 0.452364994
## 9324 0.31707317 0.45049505 0.4815655 0.35958716 0.472335921
## 9325 0.46341463 0.40346535 0.4818491 0.51177254 0.278730845
## 9326 0.35365854 0.55693069 0.4897901 0.47855162 0.445912133
## 9327 0.34146341 0.40594059 0.4917754 0.35625289 0.440294453
## 9328 0.81707317 0.39356436 0.4829836 0.82109389 0.479086156
## 9329 0.43902439 0.70792079 0.4926262 0.37374324 0.392278299
## 9330 0.50000000 0.43564356 0.4931934 0.47192066 0.690115259
## 9331 0.65853659 0.31930693 0.4792967 0.77693863 0.524141031
## 9332 0.50000000 0.38613861 0.4909246 0.54296647 0.610006009
## 9333 0.31707317 0.60643564 0.4826999 0.47138843 0.188869990
## 9334 0.62195122 0.43316832 0.4920590 0.56712380 0.508340846
## 9335 0.43902439 0.36881188 0.5085082 0.52984320 0.583266036
## 9336 0.84146341 0.36633663 0.4895065 0.70959314 0.538594533
## 9337 0.56097561 0.38861386 0.4815655 0.62008728 0.434963378
## 9338 0.47560976 0.55445545 0.4900737 0.44862604 0.660786841
## 9339 0.62195122 0.47772277 0.4866704 0.72977815 0.467971544
## 9340 0.56097561 0.29455446 0.4889393 0.54769627 0.702140692
## 9341 0.42682927 0.58415842 0.4937606 0.20297115 0.400641503
## 9342 0.50000000 0.51980198 0.4886557 0.61960338 0.471075203
## 9343 0.37804878 0.57178218 0.4863868 0.49912260 0.539223292
## 9344 0.46341463 0.45049505 0.4795803 0.48154297 0.339762640
## 9345 0.42682927 0.39603960 0.4883721 0.54410019 0.630375380
## 9346 0.40243902 0.55693069 0.4832672 0.24431537 0.401908433
## 9347 0.56097561 0.44554455 0.4872377 0.61239731 0.559322617
## 9348 0.47560976 0.50000000 0.4809983 0.39161797 0.315471159
## 9349 0.53658537 0.44554455 0.4855360 0.55562730 0.546415043
## 9350 0.36585366 0.31188119 0.4926262 0.34716240 0.381172912
## 9351 0.58536585 0.34158416 0.4722065 0.48662036 0.547309166
## 9352 0.64634146 0.45792079 0.4872377 0.45747751 0.500202218
```

524

```
## 9353 0.58536585 0.11386139 0.4923426 0.53656284 0.443785492
## 9354 0.37804878 0.48514851 0.4756098 0.39337584 0.533765809
## 9355 0.50000000 0.60148515 0.4829836 0.54995932 0.457091169
## 9356 0.45121951 0.54702970 0.4948951 0.41732125 0.482982567
## 9357 0.56097561 0.50495050 0.4849688 0.55353076 0.688925567
## 9358 0.46341463 0.46782178 0.4861032 0.52636163 0.300713364
## 9359 0.56097561 0.44801980 0.4960295 0.51773378 0.508284617
## 9360 0.43902439 0.53712871 0.4994328 0.47823966 0.662015557
## 9361 0.31707317 0.51485149 0.4574589 0.30536810 0.363246182
## 9362 0.46341463 0.41089109 0.5190017 0.51062591 0.556028594
## 9363 0.46341463 0.30693069 0.4991492 0.53914322 0.452638653
## 9364 0.31707317 0.59653465 0.5019853 0.48148137 0.388056302
## 9365 0.50000000 0.60148515 0.4543392 0.57062984 0.588256062
## 9366 0.19512195 0.38613861 0.4804311 0.15465003 0.465848971
## 9367 0.56097561 0.35396040 0.4926262 0.55491025 0.311922195
## 9368 0.63414634 0.27475248 0.4866704 0.63788145 0.649286291
## 9369 0.59756098 0.44306931 0.4900737 0.60054033 0.556371811
## 9370 0.36585366 0.43069307 0.4614294 0.30075591 0.229378774
## 9371 0.40243902 0.24504950 0.5102099 0.53538713 0.614264804
## 9372 0.53658537 0.42821782 0.4957459 0.57802091 0.489171559
## 9373 0.36585366 0.50495050 0.5167328 0.28267559 0.553780227
## 9374 0.62195122 0.25742574 0.4722065 0.66464167 0.591695855
## 9375 0.43902439 0.55198020 0.4900737 0.42096317 0.462565528
## 9376 0.47560976 0.24257426 0.4875213 0.48364674 0.360979921
## 9377 0.71951220 0.34900990 0.4784458 0.55983732 0.380510651
## 9378 0.68292683 0.54950495 0.4875213 0.64643714 0.557263952
## 9379 0.45121951 0.27970297 0.4965967 0.57283376 0.433166953
## 9380 0.15853659 0.35891089 0.4895065 0.14897016 0.542834776
## 9381 0.21951220 0.52475248 0.5002836 0.35587498 0.122095386
## 9382 0.50000000 0.65841584 0.4730573 0.64168180 0.406147479
## 9383 0.56097561 0.35891089 0.5011344 0.48487014 0.391123832
## 9384 0.71951220 0.44059406 0.5017016 0.62029160 0.658746634
## 9385 0.59756098 0.68564356 0.4719229 0.67640970 0.548327514
## 9386 0.50000000 0.60643564 0.4707884 0.41503891 0.367984366
## 9387 0.37804878 0.46782178 0.4707884 0.32979902 0.371745853
## 9388 0.59756098 0.29950495 0.5022689 0.73855988 0.524429479
## 9389 0.58536585 0.46534653 0.4971639 0.41585531 0.521387922
## 9390 0.50000000 0.47277228 0.4526375 0.49821032 0.402027596
## 9391 0.41463415 0.25990099 0.4875213 0.37196442 0.601955738
## 9392 0.71951220 0.58663366 0.4727737 0.71528562 0.498481530
## 9393 0.50000000 0.52475248 0.4668179 0.62296219 0.363132437
## 9394 0.39024390 0.41089109 0.4934770 0.55230947 0.454066173
## 9395 0.40243902 0.32920792 0.5102099 0.35417926 0.738254269
## 9396 0.47560976 0.36138614 0.4449801 0.50150130 0.446238940
## 9397 0.47560976 0.42326733 0.4889393 0.37971447 0.394686672
## 9398 0.50000000 0.50247525 0.4937606 0.41711460 0.331551387
## 9399 0.59756098 0.52227723 0.4937606 0.46632845 0.394890121
## 9400 0.15853659 0.36881188 0.5195689 0.40479061 0.616981900
## 9401 0.50000000 0.57920792 0.5017016 0.42689643 0.348902444
## 9402 0.40243902 0.81188119 0.4739081 0.45632604 0.601920031
## 9403 0.56097561 0.33415842 0.4605786 0.56556189 0.334151885
## 9404 0.65853659 0.50000000 0.5011344 0.50320534 0.602098788
## 9405 0.59756098 0.45544554 0.4812819 0.63166230 0.439047468
## 9406 0.65853659 0.62623762 0.4395916 0.41633268 0.351545050
## 9407 0.68292683 0.40594059 0.5065230 0.63451179 0.561094899
## 9408 0.57317073 0.46039604 0.4974475 0.36718397 0.519103812
## 9409 0.50000000 0.28217822 0.4739081 0.58346256 0.522642095
## 9410 0.43902439 0.28712871 0.4730573 0.62725017 0.502729599
```

```
## 9411 0.37804878 0.47772277 0.5065230 0.38067255 0.439221327
## 9412 0.56097561 0.25742574 0.4747589 0.57870166 0.409089618
## 9413 0.31707317 0.60891089 0.4747589 0.53840929 0.303131005
## 9414 0.34146341 0.39851485 0.5070902 0.40298992 0.506804100
## 9415 0.63414634 0.46039604 0.5014180 0.43575262 0.487856971
## 9416 0.28048780 0.65346535 0.4920590 0.33477851 0.488302909
## 9417 0.59756098 0.36881188 0.4787294 0.42608745 0.357952958
## 9418 0.43902439 0.61881188 0.4824163 0.49574745 0.423693612
## 9419 0.46341463 0.53712871 0.4889393 0.33685520 0.432347040
## 9420 0.50000000 0.70792079 0.4897901 0.59605806 0.507916033
## 9421 0.47560976 0.64851485 0.4946115 0.51956576 0.510746570
## 9422 0.53658537 0.44059406 0.5087918 0.50724194 0.447136504
## 9423 0.56097561 0.27722772 0.4968803 0.50313897 0.519004931
## 9424 0.64634146 0.34900990 0.4702212 0.40628556 0.407755979
## 9425 0.75609756 0.36881188 0.4747589 0.66491750 0.583361169
## 9426 0.53658537 0.58415842 0.4809983 0.52282632 0.488930403
## 9427 0.34146341 0.46782178 0.4991492 0.37306251 0.363524193
## 9428 0.68292683 0.53217822 0.4849688 0.51735492 0.601798352
## 9429 0.56097561 0.48267327 0.4869541 0.53547405 0.637737282
## 9430 0.52439024 0.53465347 0.5048213 0.58187391 0.570185520
## 9431 0.52439024 0.40594059 0.4858196 0.44789204 0.460618284
## 9432 0.34146341 0.31188119 0.4807147 0.55211227 0.576713599
## 9433 0.56097561 0.43564356 0.4724901 0.38544995 0.158125451
## 9434 0.46341463 0.51485149 0.5036869 0.49399169 0.424309814
## 9435 0.53658537 0.56188119 0.4784458 0.63736704 0.464315786
## 9436 0.50000000 0.47277228 0.4937606 0.42506616 0.408234281
## 9437 0.52439024 0.66336634 0.4775950 0.49663188 0.432256524
## 9438 0.43902439 0.45792079 0.4688032 0.42107670 0.237478475
## 9439 0.47560976 0.62623762 0.4753261 0.47870058 0.489349250
## 9440 0.50000000 0.42079208 0.5201361 0.58570540 0.519303360
## 9441 0.59756098 0.48019802 0.5121951 0.66379161 0.446184831
## 9442 0.68292683 0.24504950 0.4716393 0.54920994 0.554869098
## 9443 0.41463415 0.31435644 0.4815655 0.32504769 0.333612482
## 9444 0.43902439 0.52970297 0.4934770 0.50070183 0.313044063
## 9445 0.58536585 0.27722772 0.4753261 0.37464493 0.394676214
## 9446 0.50000000 0.63861386 0.4920590 0.58405641 0.549417844
## 9447 0.56097561 0.29950495 0.4696540 0.36625694 0.376857515
## 9448 0.40243902 0.59900990 0.4775950 0.44167685 0.620449831
## 9449 0.58536585 0.52970297 0.5096427 0.62057536 0.407080432
## 9450 0.50000000 0.43564356 0.4801475 0.45678368 0.362981062
## 9451 0.56097561 0.50000000 0.4826999 0.57834892 0.464462383
## 9452 0.46341463 0.28960396 0.5025525 0.52135371 0.517849954
## 9453 0.46341463 0.62376238 0.4926262 0.48620164 0.553016329
## 9454 0.74390244 0.66336634 0.4824163 0.75812337 0.324316499
## 9455 0.56097561 0.56683168 0.4699376 0.37479789 0.392621906
## 9456 0.43902439 0.42821782 0.4846852 0.42964477 0.468266979
## 9457 0.40243902 0.62376238 0.4659671 0.48708925 0.534519311
## 9458 0.58536585 0.47029703 0.4818491 0.56962660 0.449968165
## 9459 0.50000000 0.38613861 0.4903573 0.57654064 0.249076792
## 9460 0.53658537 0.41089109 0.4824163 0.52771058 0.497788642
## 9461 0.56097561 0.36881188 0.4849688 0.62529553 0.631258729
## 9462 0.40243902 0.35148515 0.5036869 0.27193880 0.468981035
## 9463 0.47560976 0.39356436 0.4821327 0.44750539 0.379480498
## 9464 0.43902439 0.54207921 0.4730573 0.51810964 0.343276934
## 9465 0.50000000 0.39851485 0.4841180 0.56511301 0.397973715
## 9466 0.50000000 0.60148515 0.4801475 0.58276229 0.405098156
## 9467 0.65853659 0.32425743 0.4937606 0.63714481 0.480314219
## 9468 0.46341463 0.47277228 0.4753261 0.47967507 0.523447296
```

```
## 9469 0.37804878 0.61881188 0.4705048 0.47358177 0.466525230
## 9470 0.53658537 0.58663366 0.4883721 0.63906824 0.576359329
## 9471 0.46341463 0.46534653 0.5005672 0.46842425 0.564147169
## 9472 0.43902439 0.29207921 0.5062394 0.51751528 0.406294797
## 9473 0.41463415 0.47029703 0.4350539 0.37421943 0.415869808
## 9474 0.46341463 0.54702970 0.4909246 0.42611625 0.365723233
## 9475 0.41463415 0.58168317 0.4461146 0.43287289 0.411451092
## 9476 0.64634146 0.36881188 0.4651163 0.50865824 0.427311624
## 9477 0.40243902 0.39603960 0.4875213 0.35950461 0.551343631
## 9478 0.56097561 0.37128713 0.4761770 0.61701596 0.425084689
## 9479 0.50000000 0.45792079 0.4109472 0.63660990 0.550284626
## 9480 0.62195122 0.39603960 0.4985820 0.58562812 0.477906667
## 9481 0.42682927 0.51237624 0.4756098 0.52869163 0.633421765
## 9482 0.65853659 0.30198020 0.4682360 0.57317277 0.357376104
## 9483 0.40243902 0.52970297 0.4931934 0.48024139 0.538457557
## 9484 0.47560976 0.36386139 0.4574589 0.59665706 0.549907813
## 9485 0.37804878 0.37871287 0.5136132 0.41391109 0.720674947
## 9486 0.62195122 0.63861386 0.5414067 0.55550900 0.434648613
## 9487 0.43902439 0.50990099 0.4719229 0.32123818 0.297908598
## 9488 0.76829268 0.54455446 0.4506523 0.58565853 0.420031226
## 9489 0.43902439 0.52227723 0.5042541 0.40319549 0.448648828
## 9490 0.43902439 0.46039604 0.4475326 0.38117837 0.637246493
## 9491 0.56097561 0.49257426 0.4463982 0.53059469 0.444986728
## 9492 0.56097561 0.26732673 0.4863868 0.37561389 0.567741027
## 9493 0.65853659 0.49257426 0.5150312 0.71188010 0.677423619
## 9494 0.47560976 0.38861386 0.4931934 0.52766590 0.606959745
## 9495 0.34146341 0.45544554 0.4965967 0.40059370 0.386443193
## 9496 0.37804878 0.48514851 0.4923426 0.54909549 0.586625760
## 9497 0.65853659 0.23762376 0.5002836 0.49616633 0.463391696
## 9498 0.52439024 0.36881188 0.4960295 0.38554991 0.427901200
## 9499 0.34146341 0.55445545 0.4696540 0.50170576 0.629972141
## 9500 0.68292683 0.27227723 0.4897901 0.52553576 0.389343279
## 9501 0.53658537 0.37376238 0.4892229 0.50358269 0.282523837
## 9502 0.31707317 0.29455446 0.5190017 0.27893626 0.379949523
## 9503 0.56097561 0.24009901 0.4781622 0.50466906 0.499923224
## 9504 0.78048780 0.32673267 0.4568917 0.68747931 0.824312246
## 9505 0.43902439 0.54207921 0.4648327 0.44849100 0.475972742
## 9506 0.50000000 0.47524752 0.4855360 0.51358069 0.526248970
## 9507 0.56097561 0.33168317 0.5039705 0.55084039 0.513937005
## 9508 0.50000000 0.36138614 0.4784458 0.36472987 0.364647661
## 9509 0.53658537 0.41089109 0.4679524 0.46831940 0.327745009
## 9510 0.40243902 0.50247525 0.4690868 0.30784677 0.494099836
## 9511 0.47560976 0.46039604 0.5076574 0.38087492 0.574052614
## 9512 0.59756098 0.39108911 0.4636982 0.75779192 0.335870967
## 9513 0.46341463 0.66584158 0.4869541 0.47802826 0.647028310
## 9514 0.59756098 0.64356436 0.4710720 0.49375868 0.614103966
## 9515 0.35365854 0.56188119 0.4764606 0.45274796 0.464388633
## 9516 0.53658537 0.53465347 0.4861032 0.48577979 0.283165844
## 9517 0.62195122 0.59653465 0.4895065 0.56372122 0.365605964
## 9518 0.80487805 0.53217822 0.5025525 0.69279124 0.685879569
## 9519 0.47560976 0.32920792 0.5269427 0.64340192 0.587080770
## 9520 0.59756098 0.40346535 0.4568917 0.59377267 0.521860590
## 9521 0.21951220 0.32920792 0.5065230 0.27402734 0.492086119
## 9522 0.59756098 0.39851485 0.4744753 0.54189194 0.366415114
## 9523 0.50000000 0.56188119 0.4798639 0.46363826 0.398606274
## 9524 0.56097561 0.39108911 0.4994328 0.55246028 0.680143379
## 9525 0.46341463 0.67821782 0.4954623 0.48607330 0.547011297
## 9526 0.58536585 0.41336634 0.4878049 0.54349771 0.496600912
```

527

```
## 9527 0.56097561 0.53217822 0.4480998 0.50968065 0.461629281
## 9528 0.37804878 0.52722772 0.4710720 0.44074030 0.354398135
## 9529 0.46341463 0.40346535 0.4625638 0.58724151 0.602866020
## 9530 0.42682927 0.43069307 0.4807147 0.59314580 0.607745518
## 9531 0.59756098 0.43069307 0.4665343 0.47057276 0.224835341
## 9532 0.53658537 0.64356436 0.4625638 0.54488431 0.529582256
## 9533 0.41463415 0.25000000 0.4109472 0.43575896 0.379026046
## 9534 0.31707317 0.52970297 0.4943279 0.32564140 0.441397562
## 9535 0.52439024 0.28465347 0.4722065 0.51631193 0.442560911
## 9536 0.56097561 0.42079208 0.4696540 0.46713939 0.520074951
## 9537 0.62195122 0.24752475 0.5167328 0.55728125 0.545005207
## 9538 0.53658537 0.42821782 0.4727737 0.58166128 0.393404333
## 9539 0.50000000 0.45544554 0.4668179 0.57410235 0.372137271
## 9540 0.24390244 0.56188119 0.4997164 0.15592017 0.478463767
## 9541 0.78048780 0.22772277 0.4787294 0.62807374 0.638060682
## 9542 0.53658537 0.31435644 0.5019853 0.49745388 0.519829452
## 9543 0.47560976 0.42821782 0.4866704 0.50639945 0.397289363
## 9544 0.40243902 0.50990099 0.4571753 0.32726251 0.310148673
## 9545 0.36585366 0.42574257 0.5045377 0.29717428 0.671721145
## 9546 0.37804878 0.26485149 0.4886557 0.48285525 0.256901347
## 9547 0.56097561 0.42079208 0.5147476 0.42184706 0.416020927
## 9548 0.52439024 0.40346535 0.5204197 0.53849859 0.513888877
## 9549 0.56097561 0.29702970 0.4985820 0.43825442 0.536912563
## 9550 0.47560976 0.38613861 0.4727737 0.37343150 0.388134561
## 9551 0.36585366 0.44554455 0.4707884 0.40660453 0.292177673
## 9552 0.43902439 0.52722772 0.4971639 0.48911743 0.489911277
## 9553 0.62195122 0.46287129 0.4483834 0.64545941 0.424874322
## 9554 0.43902439 0.44059406 0.4716393 0.54581794 0.625983222
## 9555 0.47560976 0.54207921 0.4787294 0.50948218 0.436194364
## 9556 0.41463415 0.44306931 0.4903573 0.36872008 0.426206535
## 9557 0.80487805 0.49257426 0.4861032 0.71909949 0.385800879
## 9558 0.40243902 0.52970297 0.4869541 0.52184781 0.426232912
## 9559 0.46341463 0.37376238 0.5005672 0.48527056 0.390708838
## 9560 0.56097561 0.43069307 0.4971639 0.49104829 0.397270989
## 9561 0.71951220 0.37871287 0.4809983 0.65214946 0.354864120
## 9562 0.21951220 0.67821782 0.4844016 0.33562690 0.136728576
## 9563 0.53658537 0.31188119 0.4940442 0.40055521 0.467116195
## 9564 0.57317073 0.25247525 0.4673851 0.76208654 0.282896420
## 9565 0.43902439 0.36138614 0.4512195 0.48490239 0.592136382
## 9566 0.47560976 0.42821782 0.5028361 0.51704307 0.507447005
## 9567 0.50000000 0.41584158 0.4809983 0.38496953 0.469494313
## 9568 0.37804878 0.50742574 0.4889393 0.50719869 0.614916286
## 9569 0.65853659 0.49009901 0.4889393 0.60016876 0.519010564
## 9570 0.50000000 0.36881188 0.4707884 0.54316465 0.403947855
## 9571 0.56097561 0.55445545 0.4917754 0.60525771 0.554380709
## 9572 0.56097561 0.48514851 0.4801475 0.58876333 0.411982251
## 9573 0.28048780 0.49257426 0.4861032 0.17829433 0.461046579
## 9574 0.40243902 0.68811881 0.4446965 0.16090036 0.045514844
## 9575 0.37804878 0.50000000 0.4775950 0.43452646 0.432963734
## 9576 0.47560976 0.36881188 0.4875213 0.50489017 0.539879012
## 9577 0.52439024 0.55693069 0.4855360 0.51925664 0.370871959
## 9578 0.46341463 0.36138614 0.5235394 0.58040317 0.741017194
## 9579 0.50000000 0.56435644 0.4821327 0.44657675 0.390147451
## 9580 0.63414634 0.23514851 0.4866704 0.70276022 0.611141996
## 9581 0.53658537 0.32425743 0.4846852 0.43884299 0.543525494
## 9582 0.28048780 0.35643564 0.4770278 0.42821140 0.657461584
## 9583 0.81707317 0.48019802 0.4273965 0.82378104 0.361141171
## 9584 0.50000000 0.38613861 0.3584799 0.41655031 0.521258422
```

528

```
## 9585 0.43902439 0.54702970 0.4622802 0.48323809 0.433178450
## 9586 0.56097561 0.55940594 0.5076574 0.56269285 0.320052254
## 9587 0.56097561 0.23019802 0.4767442 0.53838282 0.429636217
## 9588 0.47560976 0.60891089 0.5059558 0.53049923 0.182739718
## 9589 0.46341463 0.74504950 0.4566081 0.49323564 0.513463282
## 9590 0.52439024 0.44306931 0.4702212 0.44452797 0.364750711
## 9591 0.59756098 0.63118812 0.4960295 0.71549854 0.674040268
## 9592 0.31707317 0.63118812 0.4724901 0.50970196 0.380635704
## 9593 0.62195122 0.33168317 0.4790130 0.58009345 0.639253414
## 9594 0.62195122 0.51237624 0.5002836 0.87050069 0.543557439
## 9595 0.50000000 0.56683168 0.4795803 0.46058939 0.406854079
## 9596 0.59756098 0.43811881 0.4636982 0.58021461 0.642388978
## 9597 0.37804878 0.30940594 0.4920590 0.53445316 0.541219406
## 9598 0.43902439 0.62871287 0.4991492 0.46910400 0.419392931
## 9599 0.28048780 0.66336634 0.4798639 0.47768240 0.360632695
## 9600 0.43902439 0.29702970 0.4625638 0.52168348 0.565876522
## 9601 0.78048780 0.48514851 0.5127623 0.53609672 0.403849172
## 9602 0.56097561 0.38366337 0.4722065 0.50255436 0.465031536
## 9603 0.58536585 0.46287129 0.4982984 0.53091533 0.417010292
## 9604 0.62195122 0.49504950 0.4954623 0.65889344 0.548695813
## 9605 0.78048780 0.45792079 0.4790130 0.66136614 0.757843697
## 9606 0.80487805 0.55693069 0.4160522 0.84184386 0.506238864
## 9607 0.43902439 0.70544554 0.4903573 0.50333204 0.517420826
## 9608 0.28048780 0.51237624 0.4790130 0.49070867 0.351567573
## 9609 0.50000000 0.36386139 0.5022689 0.44330155 0.310367009
## 9610 0.59756098 0.68069307 0.5082246 0.51305010 0.247634061
## 9611 0.53658537 0.56188119 0.4653999 0.65446480 0.516551138
## 9612 0.64634146 0.23762376 0.4790130 0.39454733 0.440754832
## 9613 0.59756098 0.42821782 0.4682360 0.63816159 0.511670232
## 9614 0.56097561 0.34653465 0.4923426 0.54961198 0.591698983
## 9615 0.40243902 0.48762376 0.4756098 0.50218740 0.443026358
## 9616 0.59756098 0.37623762 0.4869541 0.80764476 0.607408066
## 9617 0.37804878 0.48019802 0.4798639 0.47624586 0.695777576
## 9618 0.56097561 0.49752475 0.4758934 0.44005244 0.404808791
## 9619 0.43902439 0.34900990 0.4826999 0.46131994 0.262334767
## 9620 0.50000000 0.65841584 0.4758934 0.56446653 0.694517882
## 9621 0.40243902 0.54702970 0.4869541 0.45008483 0.506857526
## 9622 0.59756098 0.37376238 0.4920590 0.39770036 0.463975563
## 9623 0.31707317 0.29702970 0.5014180 0.20956901 0.464530315
## 9624 0.41463415 0.67326733 0.4807147 0.52408121 0.467780289
## 9625 0.47560976 0.62128713 0.4855360 0.52132600 0.514297824
## 9626 0.24390244 0.28465347 0.5034033 0.25587827 0.758190071
## 9627 0.43902439 0.49009901 0.4829836 0.51873038 0.648304022
## 9628 0.59756098 0.51980198 0.4619966 0.51268199 0.668325226
## 9629 0.59756098 0.25000000 0.4926262 0.58574479 0.460388458
## 9630 0.34146341 0.54455446 0.4778786 0.42931201 0.400412289
## 9631 0.56097561 0.38613861 0.4651163 0.43357531 0.443601799
## 9632 0.53658537 0.32673267 0.5034033 0.70848837 0.587419601
## 9633 0.65853659 0.53465347 0.4923426 0.62875646 0.604042038
## 9634 0.09756098 0.31683168 0.5042541 0.10070253 0.502854163
## 9635 0.43902439 0.75495050 0.4758934 0.46964186 0.344442660
## 9636 0.68292683 0.68069307 0.4591605 0.53968530 0.288457768
## 9637 0.84146341 0.51732673 0.4818491 0.80680999 0.362501323
## 9638 0.41463415 0.45544554 0.4602950 0.43627245 0.449588444
## 9639 0.47560976 0.36881188 0.4883721 0.57017852 0.580814587
## 9640 0.40243902 0.30693069 0.4724901 0.29491793 0.266736763
## 9641 0.50000000 0.43316832 0.4676687 0.40039445 0.522959104
## 9642 0.31707317 0.53712871 0.4985820 0.30322909 0.181290647
```

```
## 9643 0.56097561 0.57920792 0.4648327 0.48076835 0.404808791
## 9644 0.56097561 0.58663366 0.4781622 0.53546870 0.360191067
## 9645 0.56097561 0.50000000 0.4747589 0.46874411 0.451547696
## 9646 0.63414634 0.42326733 0.4934770 0.62404694 0.558867812
## 9647 0.46341463 0.71534653 0.4727737 0.51170558 0.428491714
## 9648 0.52439024 0.48762376 0.5053885 0.54131180 0.352995610
## 9649 0.50000000 0.42079208 0.4809983 0.42080363 0.614690944
## 9650 0.58536585 0.49257426 0.4883721 0.60542050 0.576847485
## 9651 0.40243902 0.45049505 0.5087918 0.41733317 0.435500823
## 9652 0.46341463 0.46287129 0.4934770 0.54564216 0.436446996
## 9653 0.59756098 0.43564356 0.5093590 0.76470648 0.699409188
## 9654 0.65853659 0.47277228 0.4889393 0.53240375 0.602573734
## 9655 0.46341463 0.41336634 0.5048213 0.52161916 0.504531002
## 9656 0.37804878 0.55198020 0.5195689 0.47344217 0.309799341
## 9657 0.78048780 0.54455446 0.4963131 0.64178703 0.700264730
## 9658 0.40243902 0.68811881 0.4653999 0.41882948 0.568616743
## 9659 0.59756098 0.51485149 0.4636982 0.58376697 0.562963286
## 9660 0.53658537 0.47772277 0.5059558 0.61570715 0.438295316
## 9661 0.40243902 0.60891089 0.4722065 0.48584913 0.503295701
## 9662 0.50000000 0.75247525 0.4515031 0.51826386 0.500939032
## 9663 0.43902439 0.46534653 0.4971639 0.43380851 0.436190735
## 9664 0.64634146 0.41831683 0.4906410 0.56973928 0.499450531
## 9665 0.40243902 0.49504950 0.4651163 0.35981163 0.492903146
## 9666 0.90243902 0.61881188 0.4645491 0.90498214 0.443658052
## 9667 0.40243902 0.51485149 0.4801475 0.37229417 0.517121383
## 9668 0.21951220 0.51732673 0.4775950 0.43701171 0.173757314
## 9669 0.50000000 0.41089109 0.5107771 0.42635440 0.262047637
## 9670 0.37804878 0.57673267 0.4985820 0.46969191 0.548024687
## 9671 0.56097561 0.21534653 0.4951787 0.49599776 0.393233776
## 9672 0.40243902 0.50495050 0.4690868 0.38237745 0.218041039
## 9673 0.13414634 0.32178218 0.5147476 0.14879305 0.465802890
## 9674 0.25609756 0.76980198 0.4761770 0.43074472 0.546281519
## 9675 0.50000000 0.29207921 0.5204197 0.42449469 0.605454659
## 9676 0.78048780 0.46039604 0.4824163 0.84247298 0.442192603
## 9677 0.68292683 0.80445545 0.4583097 0.79320949 0.572321980
## 9678 0.36585366 0.37623762 0.4832672 0.38175788 0.353818051
## 9679 0.43902439 0.54950495 0.4642655 0.48445746 0.392397145
## 9680 0.43902439 0.28465347 0.4929098 0.53160644 0.539905354
## 9681 0.50000000 0.56683168 0.4809983 0.44881151 0.501235377
## 9682 0.53658537 0.65099010 0.4809983 0.46242891 0.449349961
## 9683 0.58536585 0.34900990 0.5232558 0.51503127 0.317959888
## 9684 0.68292683 0.42079208 0.4957459 0.54611534 0.492469791
## 9685 0.69512195 0.49504950 0.4926262 0.74732684 0.553153370
## 9686 0.50000000 0.40594059 0.4676687 0.66269681 0.394839586
## 9687 0.43902439 0.49752475 0.4818491 0.54835946 0.435739827
## 9688 0.30487805 0.54950495 0.4790130 0.43711384 0.360185548
## 9689 0.46341463 0.31188119 0.4878049 0.47390208 0.382404811
## 9690 0.43902439 0.50990099 0.4631310 0.53735199 0.542621653
## 9691 0.43902439 0.56188119 0.4651163 0.54489480 0.360120095
## 9692 0.28048780 0.51237624 0.4807147 0.48854356 0.356287124
## 9693 0.59756098 0.54455446 0.4781622 0.53797064 0.580650599
## 9694 0.37804878 0.55693069 0.4795803 0.51731392 0.303823504
## 9695 0.65853659 0.34158416 0.4963131 0.57637623 0.625747386
## 9696 0.62195122 0.38861386 0.4279637 0.54937712 0.500228741
## 9697 0.25609756 0.60891089 0.4878049 0.25071165 0.199630364
## 9698 0.40243902 0.57425743 0.4758934 0.44249650 0.402800342
## 9699 0.75609756 0.34405941 0.4767442 0.51637176 0.489812586
## 9700 0.53658537 0.47277228 0.4988656 0.47876902 0.382812774
```

```
## 9701 0.56097561 0.55693069 0.4861032 0.43263566 0.192814891
## 9702 0.65853659 0.53217822 0.4920590 0.56169313 0.417418260
## 9703 0.40243902 0.34158416 0.4824163 0.52670384 0.406468836
## 9704 0.56097561 0.52970297 0.5181509 0.52788552 0.574175752
## 9705 0.57317073 0.61386139 0.4948951 0.69559090 0.619964582
## 9706 0.62195122 0.52227723 0.4844016 0.58607682 0.452754617
## 9707 0.59756098 0.65594059 0.7121384 0.59162077 0.432284825
## 9708 0.59756098 0.36138614 0.4792967 0.51305135 0.556800646
## 9709 0.52439024 0.52475248 0.4083948 0.50283195 0.437286504
## 9710 0.68292683 0.33910891 0.4767442 0.53889491 0.592304631
## 9711 0.53658537 0.39108911 0.4764606 0.42545843 0.273127256
## 9712 0.47560976 0.50247525 0.4991492 0.38501957 0.546861851
## 9713 0.53658537 0.38118812 0.5218378 0.60628838 0.369262275
## 9714 0.46341463 0.44059406 0.4951787 0.41825888 0.560290395
## 9715 0.37804878 0.62623762 0.4795803 0.56213442 0.338020491
## 9716 0.43902439 0.70297030 0.4926262 0.50130558 0.521635293
## 9717 0.59756098 0.43564356 0.4855360 0.64236281 0.601960713
## 9718 0.21951220 0.52970297 0.5615428 0.18757348 0.486161867
## 9719 0.25609756 0.58910891 0.4594441 0.35131687 0.222855408
## 9720 0.46341463 0.62871287 0.5116279 0.51677426 0.417309240
## 9721 0.73170732 0.52722772 0.4682360 0.51709387 0.482879519
## 9722 0.43902439 0.34653465 0.5612592 0.42389914 0.735127501
## 9723 0.46341463 0.44801980 0.5059558 0.45747521 0.269923862
## 9724 0.53658537 0.56188119 0.4946115 0.53324942 0.591333351
## 9725 0.53658537 0.49504950 0.4710720 0.51311018 0.395199801
## 9726 0.47560976 0.53712871 0.4957459 0.58444554 0.497176315
## 9727 0.37804878 0.42079208 0.4895065 0.51331201 0.471677021
## 9728 0.78048780 0.40594059 0.4758934 0.76391207 0.516215973
## 9729 0.40243902 0.43069307 0.2617697 0.39295076 0.539629906
## 9730 0.65853659 0.53465347 0.4699376 0.56455976 0.484235597
## 9731 0.59756098 0.39851485 0.4446965 0.64355571 0.440440185
## 9732 0.56097561 0.30940594 0.4965967 0.51331500 0.340916664
## 9733 0.59756098 0.44059406 0.4699376 0.49629342 0.518567166
## 9734 0.47560976 0.51980198 0.4920590 0.59335929 0.431854905
## 9735 0.62195122 0.52475248 0.4498015 0.56819937 0.562797064
## 9736 0.40243902 0.60891089 0.4634146 0.53902147 0.415397710
## 9737 0.35365854 0.46039604 0.4965967 0.18566358 0.527453333
## 9738 0.41463415 0.58663366 0.4761770 0.44771748 0.461541559
## 9739 0.50000000 0.58910891 0.4906410 0.47970872 0.236920541
## 9740 0.53658537 0.37376238 0.4818491 0.61748130 0.556420320
## 9741 0.40243902 0.45297030 0.4829836 0.54305045 0.382535534
## 9742 0.71951220 0.33910891 0.4696540 0.69118831 0.551013564
## 9743 0.43902439 0.52227723 0.2558140 0.43263116 0.657738186
## 9744 0.47560976 0.54455446 0.4912082 0.47877603 0.526351889
## 9745 0.68292683 0.28960396 0.5068066 0.53094084 0.372293797
## 9746 0.37804878 0.47277228 0.4974475 0.44156772 0.578440456
## 9747 0.59756098 0.24009901 0.4963131 0.46682846 0.463375098
## 9748 0.75609756 0.65099010 0.4682360 0.75580245 0.200649000
## 9749 0.56097561 0.39108911 0.4699376 0.61246067 0.537953819
## 9750 0.47560976 0.43316832 0.4739081 0.44238111 0.607546622
## 9751 0.46341463 0.37376238 0.4931934 0.36448220 0.477796531
## 9752 0.40243902 0.41336634 0.4946115 0.40179210 0.371065980
## 9753 0.71951220 0.30940594 0.4863868 0.59495727 0.521999488
## 9754 0.87804878 0.46782178 0.4619966 0.88329415 0.392529163
## 9755 0.43902439 0.42079208 0.4756098 0.48744371 0.598487020
## 9756 0.50000000 0.55940594 0.4733409 0.48480892 0.449336956
## 9757 0.21951220 0.38118812 0.4784458 0.34681440 0.451104484
## 9758 0.46341463 0.35396040 0.4787294 0.40362350 0.526997033
```

531

```
## 9759 0.58536585 0.33663366 0.4790130 0.58613179 0.480260913
## 9760 0.65853659 0.26980198 0.4713556 0.54043908 0.451784712
## 9761 0.46341463 0.56435644 0.4812819 0.49786365 0.378891682
## 9762 0.50000000 0.54950495 0.4897901 0.45665341 0.361788132
## 9763 0.34146341 0.38613861 0.4875213 0.34653191 0.366750722
## 9764 0.59756098 0.59900990 0.5022689 0.51129882 0.404492592
## 9765 0.56097561 0.38861386 0.4835508 0.50198384 0.612469033
## 9766 0.52439024 0.29207921 0.5005672 0.43819687 0.749698808
## 9767 0.53658537 0.56930693 0.4963131 0.54508999 0.403466567
## 9768 0.42682927 0.42574257 0.5051049 0.54898611 0.659133038
## 9769 0.34146341 0.57920792 0.4872377 0.46740309 0.420919499
## 9770 0.50000000 0.40099010 0.4934770 0.47052199 0.443766738
## 9771 0.65853659 0.47277228 0.4909246 0.53492184 0.602739818
## 9772 0.74390244 0.62376238 0.4648327 0.58249409 0.367385316
## 9773 0.53658537 0.69059406 0.4866704 0.48022601 0.243175873
## 9774 0.24390244 0.51732673 0.5025525 0.36418553 0.365866931
## 9775 0.43902439 0.46534653 0.4946115 0.43437601 0.434242618
## 9776 0.56097561 0.65099010 0.4790130 0.48129338 0.397983062
## 9777 0.43902439 0.65099010 0.4926262 0.44375534 0.203639120
## 9778 0.50000000 0.23267327 0.4764606 0.56996508 0.564391344
## 9779 0.56097561 0.39851485 0.4773114 0.52058691 0.282723274
## 9780 0.47560976 0.49504950 0.5397050 0.54210453 0.440713726
## 9781 0.37804878 0.61138614 0.4778786 0.58809509 0.381169229
## 9782 0.58536585 0.32425743 0.4824163 0.45663247 0.539795750
## 9783 0.19512195 0.70049505 0.5079410 0.25645404 0.483663847
## 9784 0.59756098 0.49009901 0.5022689 0.59975922 0.455495356
## 9785 0.71951220 0.40346535 0.4875213 0.86682032 0.629923919
## 9786 0.59756098 0.41831683 0.4753261 0.55221859 0.393210293
## 9787 0.46341463 0.55940594 0.4889393 0.44495627 0.522112577
## 9788 0.62195122 0.44801980 0.4688032 0.48262883 0.589922258
## 9789 0.56097561 0.51732673 0.4605786 0.44735344 0.492786787
## 9790 0.36585366 0.58168317 0.4923426 0.50796227 0.347672580
## 9791 0.60975610 0.51980198 0.4509359 0.51765701 0.338567174
## 9792 0.40243902 0.16584158 0.4671015 0.55265833 0.683236571
## 9793 0.65853659 0.39356436 0.4112309 0.59107540 0.469903026
## 9794 0.50000000 0.62376238 0.5181509 0.45320338 0.375996350
## 9795 0.62195122 0.30693069 0.4790130 0.40847087 0.326654000
## 9796 0.31707317 0.49504950 0.5028361 0.31939065 0.413130328
## 9797 0.74390244 0.52475248 0.5000000 0.74719697 0.534235885
## 9798 0.56097561 0.36386139 0.4991492 0.55904275 0.392665151
## 9799 0.65853659 0.49009901 0.4653999 0.60738500 0.618829632
## 9800 0.62195122 0.43811881 0.4642655 0.59910493 0.405679564
## 9801 0.71951220 0.56435644 0.4597277 0.64853496 0.522466227
## 9802 0.50000000 0.59405941 0.4628474 0.50937405 0.439464245
## 9803 0.56097561 0.31683168 0.4940442 0.50336441 0.461598518
## 9804 0.47560976 0.27970297 0.4929098 0.39090072 0.514545911
## 9805 0.28048780 0.35148515 0.5011344 0.30801423 0.614869248
## 9806 0.35365854 0.21534653 0.5042541 0.25884713 0.602122392
## 9807 0.32926829 0.57920792 0.4841180 0.53727028 0.570442913
## 9808 0.63414634 0.50990099 0.4702212 0.72254733 0.272707344
## 9809 0.46341463 0.34900990 0.4940442 0.53600018 0.620981261
## 9810 0.31707317 0.64851485 0.5002836 0.50691428 0.596636218
## 9811 0.41463415 0.41336634 0.4625638 0.41799776 0.496856116
## 9812 0.37804878 0.42821782 0.5119115 0.45607001 0.503281547
## 9813 0.71951220 0.40841584 0.4588769 0.67548339 0.429439951
## 9814 0.56097561 0.53712871 0.4761770 0.60811475 0.274506293
## 9815 0.74390244 0.73762376 0.4747589 0.72601897 0.387486193
## 9816 0.69512195 0.22277228 0.4744753 0.75358924 0.385323025
```

```
## 9817 0.43902439 0.53217822 0.4846852 0.36224412 0.243939704
## 9818 0.41463415 0.37871287 0.4844016 0.42711289 0.520191771
## 9819 0.74390244 0.54455446 0.4705048 0.72486268 0.381475813
## 9820 0.59756098 0.44306931 0.4679524 0.66721800 0.412361130
## 9821 0.59756098 0.36633663 0.4914918 0.59205247 0.616737842
## 9822 0.65853659 0.43069307 0.4665343 0.84092543 0.391765580
## 9823 0.46341463 0.48019802 0.4934770 0.33867811 0.554370994
## 9824 0.59756098 0.27722772 0.4818491 0.59930246 0.542087935
## 9825 0.52439024 0.37871287 0.4934770 0.38144599 0.327903971
## 9826 0.50000000 0.50247525 0.4948951 0.35669690 0.498785739
## 9827 0.40243902 0.56683168 0.4812819 0.41506304 0.330472473
## 9828 0.31707317 0.12871287 0.4974475 0.20902595 0.365884252
## 9829 0.56097561 0.28465347 0.4965967 0.87474382 0.848666089
## 9830 0.63414634 0.33168317 0.4920590 0.63936200 0.610900309
## 9831 0.43902439 0.34405941 0.4841180 0.46864553 0.587698374
## 9832 0.52439024 0.50247525 0.4841180 0.45059214 0.479690339
## 9833 0.47560976 0.68316832 0.4826999 0.50365639 0.425981838
## 9834 0.47560976 0.34900990 0.4631310 0.35463209 0.569892024
## 9835 0.52439024 0.18564356 0.4832672 0.55085447 0.686819825
## 9836 0.43902439 0.48762376 0.4838344 0.47811904 0.512033909
## 9837 0.56097561 0.48267327 0.4773114 0.68999486 0.651357830
## 9838 0.56097561 0.62871287 0.4878049 0.73338431 0.612983950
## 9839 0.43902439 0.42574257 0.4926262 0.55495946 0.396418254
## 9840 0.62195122 0.40346535 0.4835508 0.49776547 0.360831596
## 9841 0.29268293 0.55940594 0.5000000 0.33941444 0.489989209
## 9842 0.78048780 0.46039604 0.4716393 0.72244110 0.381363108
## 9843 0.53658537 0.48267327 0.4653999 0.48941199 0.556118757
## 9844 0.78048780 0.40841584 0.4634146 0.67153175 0.679497937
## 9845 0.56097561 0.48514851 0.4912082 0.57959897 0.616803954
## 9846 0.50000000 0.51237624 0.4792967 0.55072067 0.290670910
## 9847 0.21951220 0.28712871 0.4801475 0.18571765 0.430496487
## 9848 0.53658537 0.26980198 0.5025525 0.76791783 0.746690237
## 9849 0.65853659 0.36633663 0.5116279 0.53688744 0.625927701
## 9850 0.80487805 0.49504950 0.4858196 0.71904159 0.381787498
## 9851 0.46341463 0.53217822 0.4809983 0.49500998 0.442341877
## 9852 0.56097561 0.42326733 0.4733409 0.63134201 0.408280111
## 9853 0.63414634 0.51237624 0.4699376 0.72346123 0.284016830
## 9854 0.43902439 0.63366337 0.4951787 0.43140018 0.424924983
## 9855 0.65853659 0.62376238 0.4628474 0.68618048 0.543207169
## 9856 0.30487805 0.51980198 0.4960295 0.39872192 0.579496641
## 9857 0.52439024 0.37128713 0.4466818 0.51230117 0.337636351
## 9858 0.58536585 0.49009901 0.4821327 0.40645751 0.399388358
## 9859 0.34146341 0.58415842 0.5093590 0.40670114 0.527422809
## 9860 0.43902439 0.29950495 0.5209870 0.40499239 0.666074070
## 9861 0.50000000 0.41831683 0.4812819 0.38536421 0.470370693
## 9862 0.74390244 0.44059406 0.4900737 0.60408217 0.501492349
## 9863 0.40243902 0.69059406 0.4886557 0.42246652 0.373139964
## 9864 0.36585366 0.69059406 0.4968803 0.27674314 0.516258249
## 9865 0.40243902 0.56683168 0.4909246 0.58203706 0.574991439
## 9866 0.40243902 0.53712871 0.4696540 0.36401099 0.377626013
## 9867 0.65853659 0.29207921 0.4895065 0.50494768 0.581499615
## 9868 0.52439024 0.41831683 0.4835508 0.43801224 0.484468130
## 9869 0.68292683 0.59158416 0.4889393 0.59729119 0.444119287
## 9870 0.59756098 0.24009901 0.4798639 0.61993273 0.431141561
## 9871 0.37804878 0.45297030 0.4863868 0.37765232 0.536157293
## 9872 0.50000000 0.31930693 0.4832672 0.43999619 0.555864599
## 9873 0.46341463 0.47029703 0.4790130 0.42098112 0.292252455
## 9874 0.46341463 0.55940594 0.4818491 0.45086074 0.399518271
```

```
## 9875 0.62195122 0.27475248 0.4963131 0.55438434 0.397534798
## 9876 0.34146341 0.56435644 0.4886557 0.26903236 0.402089210
## 9877 0.56097561 0.21039604 0.4954623 0.57138830 0.741920104
## 9878 0.43902439 0.53712871 0.4895065 0.35197046 0.502244865
## 9879 0.52439024 0.55940594 0.4914918 0.52562166 0.565279666
## 9880 0.62195122 0.38366337 0.4878049 0.54415718 0.676127796
## 9881 0.86585366 0.52475248 0.4770278 0.77907947 0.455300947
## 9882 0.52439024 0.40841584 0.4866704 0.46269701 0.267856162
## 9883 0.62195122 0.29455446 0.4861032 0.42337443 0.397879331
## 9884 0.47560976 0.55693069 0.4523539 0.42930738 0.571963678
## 9885 0.68292683 0.33168317 0.4855360 0.68616425 0.711762369
## 9886 0.47560976 0.73762376 0.5385706 0.50331854 0.422277134
## 9887 0.40243902 0.45297030 0.4716393 0.52509851 0.416753644
## 9888 0.58536585 0.37623762 0.4736245 0.53434487 0.540756055
## 9889 0.37804878 0.38118812 0.4773114 0.46595729 0.594383729
## 9890 0.53658537 0.46287129 0.4923426 0.48646476 0.361958809
## 9891 0.59756098 0.39356436 0.4858196 0.57075679 0.315880529
## 9892 0.54878049 0.38118812 0.4832672 0.38928127 0.413255394
## 9893 0.53658537 0.49257426 0.4844016 0.65081681 0.409175903
## 9894 0.41463415 0.50000000 0.4716393 0.42587905 0.306820349
## 9895 0.53658537 0.56930693 0.4739081 0.63153519 0.576720511
## 9896 0.40243902 0.75495050 0.4821327 0.38288343 0.402331922
## 9897 0.43902439 0.52722772 0.4937606 0.48652948 0.489153367
## 9898 0.28048780 0.60148515 0.4736245 0.29994133 0.339969922
## 9899 0.58536585 0.42574257 0.4929098 0.51813477 0.456218542
## 9900 0.53658537 0.43069307 0.4903573 0.59084204 0.457223529
## 9901 0.56097561 0.37376238 0.4702212 0.49677000 0.434250189
## 9902 0.62195122 0.34653465 0.4809983 0.57048090 0.300752146
## 9903 0.56097561 0.34158416 0.5155984 0.49775442 0.433403627
## 9904 0.31707317 0.45544554 0.4690868 0.42494727 0.214827701
## 9905 0.65853659 0.26485149 0.4214407 0.78786238 0.534641125
## 9906 0.52439024 0.50000000 0.4733409 0.51370847 0.509359826
## 9907 0.52439024 0.62128713 0.4912082 0.58436540 0.479883503
## 9908 0.69512195 0.41584158 0.4744753 0.60735064 0.367056587
## 9909 0.56097561 0.51485149 0.4773114 0.62971090 0.500946719
## 9910 0.64634146 0.47277228 0.4639818 0.82042696 0.416650323
## 9911 0.37804878 0.42821782 0.4838344 0.34405539 0.299445263
## 9912 0.40243902 0.68811881 0.4730573 0.46572075 0.255000706
## 9913 0.40243902 0.59158416 0.4906410 0.47753470 0.457752783
## 9914 0.40243902 0.47277228 0.4798639 0.47623626 0.435377210
## 9915 0.31707317 0.55445545 0.4809983 0.48317848 0.463238051
## 9916 0.28048780 0.68811881 0.4784458 0.40771411 0.240422275
## 9917 0.59756098 0.44306931 0.4716393 0.67093784 0.426211759
## 9918 0.47560976 0.37623762 0.4790130 0.47029179 0.513849116
## 9919 0.69512195 0.51732673 0.4866704 0.74806215 0.453651934
## 9920 0.59756098 0.34158416 0.4909246 0.51309381 0.686440605
## 9921 0.43902439 0.47029703 0.4812819 0.46870798 0.482736646
## 9922 0.47560976 0.38613861 0.4747589 0.51260871 0.391712881
## 9923 0.28048780 0.55693069 0.4892229 0.16992217 0.553866658
## 9924 0.56097561 0.32425743 0.4869541 0.49051853 0.554970453
## 9925 0.37804878 0.46039604 0.4753261 0.40497481 0.357445233
## 9926 0.36585366 0.70049505 0.4841180 0.30278246 0.333523320
## 9927 0.62195122 0.48514851 0.4844016 0.62734368 0.407506747
## 9928 0.42682927 0.51980198 0.4770278 0.44392259 0.330673589
## 9929 0.56097561 0.46782178 0.4878049 0.61536009 0.375764524
## 9930 0.37804878 0.41584158 0.5153148 0.52101900 0.511986321
## 9931 0.52439024 0.59405941 0.4883721 0.62512991 0.427470757
## 9932 0.50000000 0.43564356 0.4855360 0.45650361 0.374351981
```

```
## 9933 0.34146341 0.58910891 0.5113443 0.50206295 0.438378591
## 9934 0.47560976 0.45049505 0.5198525 0.49370046 0.323191128
## 9935 0.74390244 0.27475248 0.4821327 0.69601678 0.790283572
## 9936 0.37804878 0.71534653 0.4804311 0.61954133 0.558813641
## 9937 0.46341463 0.23019802 0.4835508 0.46845702 0.668351617
## 9938 0.57317073 0.56930693 0.4844016 0.67129663 0.665005481
## 9939 0.53658537 0.38861386 0.4722065 0.45630596 0.488128364
## 9940 0.31707317 0.45544554 0.5022689 0.30695737 0.434243306
## 9941 0.30487805 0.33415842 0.5141804 0.24032277 0.718969800
## 9942 0.41463415 0.45049505 0.4795803 0.43848282 0.391560670
## 9943 0.37804878 0.50495050 0.4778786 0.32873526 0.579543903
## 9944 0.65853659 0.63613861 0.4424277 0.51862449 0.455456033
## 9945 0.62195122 0.47524752 0.5096427 0.62074541 0.599028085
## 9946 0.50000000 0.30445545 0.4903573 0.47009877 0.498450251
## 9947 0.34146341 0.64603960 0.4710720 0.49087508 0.453760626
## 9948 0.56097561 0.36386139 0.4739081 0.47289070 0.320183993
## 9949 0.71951220 0.42821782 0.4895065 0.70964950 0.824516259
## 9950 0.43902439 0.54702970 0.4690868 0.47281089 0.557817087
## 9951 0.41463415 0.47029703 0.4863868 0.61156344 0.533973604
## 9952 0.40243902 0.37871287 0.4954623 0.45284689 0.565761738
## 9953 0.59756098 0.42821782 0.5039705 0.68247757 0.472092171
## 9954 0.52439024 0.58663366 0.5113443 0.65082670 0.380392987
## 9955 0.37804878 0.41336634 0.4832672 0.42010826 0.471430556
## 9956 0.74390244 0.51980198 0.4653999 0.68305588 0.497366137
## 9957 0.21951220 0.40099010 0.4951787 0.16375081 0.436085002
## 9958 0.69512195 0.48019802 0.4812819 0.64800748 0.462338278
## 9959 0.50000000 0.51980198 0.5011344 0.61205652 0.567537650
## 9960 0.37804878 0.53465347 0.4841180 0.50943026 0.576320572
## 9961 0.31707317 0.64108911 0.4849688 0.34244522 0.158329859
## 9962 0.43902439 0.23514851 0.4875213 0.52193180 0.703488613
## 9963 0.43902439 0.31435644 0.4892229 0.47135660 0.433629241
## 9964 0.43902439 0.43316832 0.4954623 0.53110208 0.528923620
## 9965 0.37804878 0.48267327 0.4824163 0.48637972 0.561366762
## 9966 0.78048780 0.47029703 0.4824163 0.66787957 0.578954778
## 9967 0.37804878 0.57673267 0.4784458 0.28462369 0.540042975
## 9968 0.69512195 0.41831683 0.4838344 0.57838773 0.455705071
## 9969 0.43902439 0.54455446 0.4863868 0.55336003 0.246202452
## 9970 0.58536585 0.33663366 0.4906410 0.58862725 0.721934189
## 9971 0.71951220 0.59653465 0.4631310 0.62535938 0.379685281
## 9972 0.40243902 0.50247525 0.4889393 0.25405713 0.533338686
## 9973 0.21951220 0.57178218 0.4923426 0.22666995 0.350855612
## 9974 0.40243902 0.46287129 0.4855360 0.51127225 0.395794724
## 9975 0.56097561 0.59653465 0.5110607 0.58232047 0.481655419
## 9976 0.37804878 0.52475248 0.4775950 0.45268755 0.368545919
## 9977 0.53658537 0.44059406 0.4600113 0.70757578 0.498587545
## 9978 0.52439024 0.60148515 0.4968803 0.50590306 0.669262872
## 9979 0.63414634 0.28465347 0.5051049 0.54529633 0.542893741
## 9980 0.43902439 0.63861386 0.4710720 0.51314557 0.528299240
## 9981 0.43902439 0.45544554 0.4792967 0.46496552 0.300102988
## 9982 0.53658537 0.25990099 0.5408395 0.55734986 0.463669523
## 9983 0.50000000 0.47029703 0.5025525 0.47189356 0.498878895
## 9984 0.68292683 0.26237624 0.5053885 0.46881659 0.646914719
## 9985 0.52439024 0.61386139 0.4886557 0.56537300 0.519255426
## 9986 0.56097561 0.52722772 0.4980147 0.54665607 0.488953788
## 9987 0.46341463 0.54702970 0.4951787 0.37896973 0.336031888
## 9988 0.37804878 0.78465347 0.4747589 0.18338580 0.242821187
## 9989 0.53658537 0.42079208 0.4977311 0.54773173 0.494467860
## 9990 0.37804878 0.58415842 0.4963131 0.35201364 0.254903009
```

```
## 9991 0.59756098 0.42821782 0.4948951 0.50030629 0.517044663
## 9992 0.52439024 0.56930693 0.5320476 0.54675651 0.513734251
## 9993 0.43902439 0.63118812 0.4832672 0.35892566 0.319373345
## 9994 0.40243902 0.50495050 0.4792967 0.41882581 0.375007577
## 9995 0.65853659 0.30693069 0.4602950 0.57010873 0.526885889
## 9996 0.70731707 0.29455446 0.4829836 0.61398554 0.437887943
## 9997 0.58536585 0.26980198 0.5036869 0.47791074 0.580213725
## 9998 0.30487805 0.57920792 0.4948951 0.44765530 0.627918168
## 9999 0.64634146 0.33663366 0.4004538 0.52934299 0.628141209
##      avgBpSavedPercentage avgSvptWonPercentage    winrate lastTenWinrate won
## 1              0.81220076           0.57806516 0.54033108     0.55555556   1
## 2              0.48065985           0.44999107 0.31474891     0.38888889   0
## 3              0.90612789           0.56260201 0.60662462     0.61111111   1
## 4              0.37502376           0.41183926 0.46483011     0.50000000   0
## 5              0.33688388           0.57895334 0.48876944     0.50000000   0
## 6              0.55036489           0.53449240 0.38840840     0.38888889   0
## 7              0.49887104           0.45548156 0.52375770     0.50000000   1
## 8              0.77075089           0.42911918 0.46638829     0.50000000   0
## 9              0.74096751           0.41606566 0.42984186     0.44444444   0
## 10             0.48556970           0.56919082 0.65931948     0.61111111   0
## 11             0.78007982           0.58890233 0.81172024     0.77777778   1
## 12             0.08086524           0.31521902 0.42899194     0.44444444   0
## 13             0.36042076           0.31815081 0.37854329     0.38888889   0
## 14             0.70122002           0.68101471 0.68765005     0.72222222   1
## 15             0.75981838           0.36805275 0.33550106     0.27777778   0
## 16             0.53155423           0.48441484 0.52014555     0.50000000   0
## 17             0.43254677           0.49056057 0.60662462     0.61111111   0
## 18             0.57403386           0.57925872 0.53572737     0.50000000   0
## 19             0.46257763           0.45018177 0.46298862     0.50000000   0
## 20             0.72495098           0.58665628 0.66835828     0.61111111   0
## 21             0.73305700           0.53527422 0.60662462     0.61111111   1
## 22             0.64309434           0.67499475 0.61530591     0.66666667   1
## 23             0.23383967           0.38677852 0.52014555     0.50000000   1
## 24             0.32660186           0.56795659 0.54704709     0.61111111   1
## 25             0.44750782           0.33622873 0.38380468     0.44444444   0
## 26             0.66295348           0.48161213 0.57716082     0.55555556   1
## 27             0.60188676           0.61441831 0.53664811     0.50000000   0
## 28             0.71869522           0.72498287 0.57624008     0.55555556   1
## 29             0.31605877           0.40205433 0.45258964     0.44444444   0
## 30             0.65446080           0.41999260 0.40912513     0.38888889   1
## 31             0.50270308           0.36525347 0.44109076     0.44444444   1
## 32             0.42468725           0.54867938 0.48508647     0.44444444   1
## 33             0.63464148           0.45936824 0.48508647     0.50000000   0
## 34             0.80746174           0.55975671 0.54427713     0.50000000   0
## 35             0.43237155           0.48064479 0.67076975     0.61111111   1
## 36             0.77647246           0.39419611 0.24960631     0.33333333   1
## 37             0.23797774           0.54270211 0.45746416     0.44444444   1
## 38             0.25823401           0.28963725 0.41081316     0.44444444   1
## 39             0.30217426           0.50947986 0.35184946     0.27777778   1
## 40             0.61966087           0.56727010 0.43697762     0.61111111   0
## 41             0.57727415           0.61677519 0.52849295     0.50000000   1
## 42             0.62746976           0.69687267 0.58282694     0.55555556   1
## 43             0.29938065           0.26062912 0.35419923     0.27777778   0
## 44             0.68455311           0.53080101 0.51731249     0.44444444   1
## 45             0.77886294           0.55764728 0.64480006     0.61111111   1
## 46             0.85708002           0.66279569 0.59436419     0.66666667   0
## 47             0.38673390           0.42636557 0.33040155     0.33333333   0
## 48             0.58448856           0.46680001 0.51731249     0.61111111   1
```

536

```
## 49             0.48842946         0.34512017 0.39393286      0.44444444   0
## 50             0.61872516         0.50893548 0.46483011      0.50000000   0
## 51             0.50012715         0.60480301 0.39827351      0.38888889   1
## 52             0.58146448         0.43871628 0.38199608      0.55555556   0
## 53             0.20136028         0.59626501 0.54372330      0.61111111   0
## 54             0.53734665         0.43400538 0.60083709      0.61111111   1
## 55             0.46201385         0.47111004 0.63700916      0.61111111   0
## 56             0.43602981         0.26261741 0.36176100      0.44444444   0
## 57             0.55290683         0.51733959 0.57716082      0.55555556   1
## 58             0.39844310         0.53608025 0.51058398      0.44444444   0
## 59             0.67091831         0.67217006 0.52559919      0.61111111   1
## 60             0.85054970         0.54827811 0.47912872      0.44444444   0
## 61             0.66507472         0.54503939 0.32303561      0.33333333   1
## 62             0.41058630         0.22761593 0.29567637      0.33333333   0
## 63             0.64110037         0.54830155 0.43444557      0.55555556   1
## 64             0.09739800         0.50493298 0.58149894      0.55555556   1
## 65             0.63201241         0.58372060 0.40879629      0.38888889   1
## 66             0.44302017         0.68375370 0.54245588      0.44444444   1
## 67             0.16480976         0.58695092 0.60083709      0.55555556   0
## 68             0.56727461         0.30283311 0.37736871      0.44444444   1
## 69             0.53351252         0.56738462 0.50845919      0.61111111   0
## 70             0.18292692         0.42819200 0.50845919      0.55555556   1
## 71             0.64957192         0.56109430 0.52248282      0.55555556   1
## 72             0.65260665         0.59185533 0.54585554      0.55555556   1
## 73             0.53157790         0.46768347 0.48508647      0.50000000   0
## 74             0.13919519         0.64489310 0.52454691      0.50000000   1
## 75             0.41389222         0.46726287 0.54643986      0.50000000   0
## 76             0.69763925         0.63013830 0.51368368      0.55555556   1
## 77             0.76678656         0.66674647 0.62688098      0.66666667   1
## 78             0.49571709         0.33066537 0.28474886      0.44444444   0
## 79             0.46553004         0.62550508 0.57624008      0.50000000   1
## 80             0.67905863         0.54572686 0.60528903      0.61111111   0
## 81             0.48951837         0.46182880 0.49092965      0.50000000   0
## 82             0.40355807         0.30730947 0.30554148      0.38888889   0
## 83             0.60126483         0.60722875 0.52849295      0.61111111   1
## 84             0.54373963         0.61073093 0.68542408      0.77777778   1
## 85             0.28038800         0.22736380 0.29409795      0.38888889   0
## 86             0.48389338         0.38839903 0.47573738      0.55555556   0
## 87             0.18969044         0.25025776 0.33965621      0.50000000   0
## 88             0.51139614         0.52521583 0.37341680      0.38888889   0
## 89             0.66624990         0.80520730 0.71856765      0.66666667   1
## 90             0.71487752         0.32018574 0.18124110      0.22222222   0
## 91             0.53463706         0.80041542 0.66427733      0.55555556   1
## 92             0.49196064         0.53050631 0.34835605      0.38888889   1
## 93             0.17114438         0.49875778 0.33461067      0.27777778   1
## 94             0.80874267         0.70103607 0.59649644      0.61111111   0
## 95             0.39113505         0.59353694 0.42721116      0.38888889   0
## 96             0.33406498         0.26483225 0.17364496      0.22222222   1
## 97             0.35983885         0.32085920 0.26805406      0.27777778   0
## 98             0.35607609         0.20115574 0.30093776      0.33333333   0
## 99             0.59101602         0.47887748 0.55704985      0.50000000   1
## 100            0.74696265         0.57126804 0.56400735      0.55555556   1
## 101            0.71517641         0.57526546 0.51113036      0.55555556   0
## 102            0.44736745         0.36831243 0.46679478      0.50000000   0
## 103            0.31747382         0.44620731 0.40406104      0.38888889   0
## 104            0.48999043         0.44765567 0.43010493      0.50000000   0
## 105            0.15782077         0.37844597 0.49148321      0.55555556   1
## 106            0.42700153         0.32506994 0.50747508      0.55555556   1
```

```
## 107          0.65056913          0.79883815 0.71932363          0.72222222    1
## 108          0.46179245          0.57959246 0.46171375          0.44444444    1
## 109          0.41856302          0.54304857 0.59527215          0.50000000    1
## 110          0.62903664          0.67098506 0.67989642          0.66666667    1
## 111          0.46958767          0.49973435 0.37420956          0.38888889    1
## 112          0.54270947          0.43519255 0.42496733          0.44444444    1
## 113          0.68975953          0.50631290 0.59143235          0.55555556    1
## 114          0.50606606          0.50812550 0.50678971          0.50000000    0
## 115          0.60635297          0.56039008 0.44891440          0.44444444    1
## 116          0.29471800          0.60772424 0.52976961          0.50000000    1
## 117          0.84717338          0.72347155 0.67756770          0.66666667    1
## 118          0.64454653          0.47583482 0.50534283          0.50000000    0
## 119          0.51742699          0.62291983 0.43782163          0.55555556    1
## 120          0.49391399          0.42814613 0.51413051          0.50000000    0
## 121          0.39945819          0.52013909 0.52679074          0.55555556    1
## 122          0.17785183          0.22263424 0.38521137          0.50000000    0
## 123          0.59820242          0.56066716 0.44650293          0.50000000    1
## 124          0.77248735          0.62596742 0.49422468          0.55555556    1
## 125          0.48394564          0.62543562 0.56700090          0.55555556    1
## 126          0.56304501          0.38498338 0.52191621          0.55555556    1
## 127          0.66824823          0.62675551 0.55019619          0.55555556    0
## 128          0.75438806          0.45551632 0.58058073          0.61111111    1
## 129          0.34959254          0.21917817 0.38380468          0.50000000    0
## 130          0.35314288          0.45836105 0.55520463          0.50000000    0
## 131          0.51372571          0.61058438 0.38633672          0.33333333    0
## 132          0.76542300          0.29551517 0.39669509          0.50000000    1
## 133          0.40379524          0.53163636 0.48508647          0.44444444    1
## 134          0.53498289          0.41857433 0.58636826          0.61111111    0
## 135          0.31066708          0.39692669 0.35157866          0.38888889    1
## 136          0.36091735          0.31995626 0.28975730          0.44444444    1
## 137          0.58156042          0.48279621 0.62551920          0.72222222    0
## 138          0.43292922          0.32954004 0.44710580          0.55555556    1
## 139          0.17068243          0.39072268 0.41657232          0.44444444    0
## 140          0.66229252          0.42584254 0.57347785          0.55555556    1
## 141          0.34135136          0.28866654 0.27239471          0.27777778    0
## 142          0.38126246          0.45853840 0.48746957          0.50000000    1
## 143          0.60362312          0.49675420 0.49547435          0.55555556    0
## 144          0.55002907          0.28031388 0.46820617          0.38888889    0
## 145          0.57674394          0.58062540 0.60528903          0.55555556    1
## 146          0.32560143          0.25743703 0.40512716          0.44444444    1
## 147          0.51261068          0.41333177 0.53921277          0.50000000    0
## 148          0.77144806          0.67328393 0.73714002          0.83333333    1
## 149          0.41288510          0.40046618 0.33171690          0.38888889    0
## 150          0.62251958          0.42521876 0.44710580          0.50000000    0
## 151          0.43833261          0.36711452 0.50097381          0.55555556    0
## 152          0.52658282          0.62965594 0.53183191          0.44444444    1
## 153          0.42544213          0.54599790 0.58610923          0.55555556    0
## 154          0.41575236          0.40020124 0.42695953          0.38888889    0
## 155          0.61271408          0.72121038 0.64107126          0.50000000    1
## 156          0.33053804          0.25740546 0.34697494          0.33333333    0
## 157          0.49770198          0.38438177 0.25358523          0.27777778    0
## 158          0.36315217          0.35035889 0.37698764          0.44444444    0
## 159          0.48410356          0.58366742 0.44457375          0.44444444    1
## 160          0.29394987          0.60909656 0.69131636          0.72222222    1
## 161          0.33959621          0.62868734 0.62744759          0.61111111    1
## 162          0.46430357          0.46597868 0.30784334          0.33333333    0
## 163          0.82968683          0.63379204 0.57668691          0.61111111    1
## 164          0.23452716          0.52998067 0.45746416          0.44444444    0
```

```
## 165           0.55122394         0.47949781 0.35461169        0.50000000   0
## 166           0.58688268         0.49533581 0.54228089        0.50000000   1
## 167           0.66266246         0.46152499 0.49859071        0.44444444   0
## 168           0.53123984         0.60394788 0.66299014        0.61111111   1
## 169           0.43819327         0.43589262 0.40791939        0.44444444   0
## 170           0.44779301         0.48495053 0.39224483        0.27777778   0
## 171           0.67793243         0.58505115 0.56149203        0.55555556   1
## 172           0.60697575         0.53338296 0.56611190        0.55555556   1
## 173           0.64606988         0.53780884 0.50381083        0.50000000   0
## 174           0.52796181         0.47395736 0.53934457        0.55555556   0
## 175           0.59511809         0.62826568 0.51884707        0.44444444   1
## 176           0.46487421         0.48939232 0.64083330        0.61111111   1
## 177           0.42272268         0.44752389 0.55125724        0.61111111   0
## 178           0.43149004         0.64716630 0.61675280        0.66666667   1
## 179           0.35321397         0.37871753 0.46398610        0.50000000   1
## 180           0.69477217         0.61200752 0.63967447        0.55555556   0
## 181           0.47314514         0.62085488 0.46685575        0.55555556   0
## 182           0.36960203         0.48526929 0.51646181        0.50000000   1
## 183           0.58227289         0.55816879 0.50693156        0.50000000   1
## 184           0.32898994         0.46307751 0.51840285        0.50000000   1
## 185           0.31100895         0.62811794 0.59322192        0.61111111   1
## 186           0.33367062         0.48642019 0.49148321        0.50000000   0
## 187           0.71103349         0.56304662 0.58347449        0.55555556   1
## 188           0.49109272         0.49776663 0.43444557        0.38888889   0
## 189           0.69809683         0.58371603 0.49613539        0.55555556   1
## 190           0.42692715         0.46138841 0.50165985        0.55555556   0
## 191           0.63636354         0.39967131 0.44492604        0.50000000   0
## 192           0.27539256         0.62475815 0.51591136        0.50000000   1
## 193           0.51422189         0.44812288 0.33210139        0.44444444   0
## 194           0.45617210         0.42611582 0.50107833        0.44444444   0
## 195           0.50892737         0.65768969 0.70031027        0.77777778   1
## 196           0.51736597         0.54292222 0.58926203        0.50000000   0
## 197           0.64203844         0.35077531 0.18124110        0.22222222   1
## 198           0.55248944         0.35341568 0.46909461        0.55555556   0
## 199           0.61726010         0.60547219 0.53572737        0.50000000   1
## 200           0.62075936         0.55910544 0.75387276        0.66666667   0
## 201           0.29739407         0.39121699 0.43950966        0.50000000   1
## 202           0.42848269         0.31664210 0.49529976        0.50000000   1
## 203           0.70655729         0.28375888 0.35653651        0.44444444   0
## 204           0.68571312         0.48225345 0.57913385        0.61111111   0
## 205           0.53735234         0.54117706 0.41048505        0.50000000   0
## 206           0.49681411         0.62608850 0.60506644        0.61111111   1
## 207           0.32834381         0.30722228 0.33516277        0.38888889   0
## 208           0.48701727         0.77285244 0.74449596        0.72222222   1
## 209           0.60382479         0.40369003 0.60662462        0.61111111   1
## 210           0.66746426         0.37100528 0.29810470        0.44444444   0
## 211           0.44421508         0.53821145 0.64535656        0.61111111   1
## 212           0.69267371         0.37135421 0.29265107        0.33333333   0
## 213           0.34978694         0.20111094 0.28068140        0.33333333   0
## 214           0.34817992         0.37563241 0.40809398        0.44444444   0
## 215           0.37544211         0.32456703 0.37154425        0.44444444   0
## 216           0.81230986         0.57506818 0.62434893        0.44444444   1
## 217           0.45319112         0.53829513 0.40304822        0.38888889   0
## 218           0.58968356         0.40362476 0.37705256        0.44444444   1
## 219           0.66235981         0.57041941 0.51402412        0.50000000   1
## 220           0.55796283         0.48528780 0.40068498        0.33333333   0
## 221           0.46980154         0.57808436 0.52762482        0.61111111   1
## 222           0.50943113         0.37888406 0.51847607        0.50000000   1
```

```
## 223          0.63111673      0.63029467 0.54723666      0.50000000   0
## 224          0.24157934      0.48654822 0.36391004      0.38888889   0
## 225          0.40764759      0.54465143 0.47344488      0.50000000   0
## 226          0.71036018      0.59923846 0.56145402      0.55555556   1
## 227          0.51756112      0.42067085 0.48697371      0.50000000   1
## 228          0.27509231      0.40366865 0.47587903      0.44444444   0
## 229          0.63981058      0.69589878 0.49787996      0.55555556   0
## 230          0.42229852      0.72053509 0.56795339      0.66666667   1
## 231          0.68907481      0.46800513 0.53306205      0.44444444   1
## 232          0.43738298      0.19211165 0.36714649      0.44444444   0
## 233          0.55279774      0.47648060 0.54585554      0.50000000   0
## 234          0.52075471      0.51938187 0.60424152      0.55555556   1
## 235          0.38475044      0.26111569 0.36822287      0.33333333   0
## 236          0.62076259      0.55536171 0.58517671      0.61111111   1
## 237          0.42116427      0.51278418 0.53661580      0.61111111   0
## 238          0.65606883      0.40579908 0.33316378      0.44444444   1
## 239          0.72987706      0.66572523 0.68050075      0.72222222   1
## 240          0.34742055      0.42436184 0.47317097      0.50000000   0
## 241          0.50506003      0.39403047 0.38224650      0.44444444   0
## 242          0.29098263      0.49693216 0.41699787      0.38888889   1
## 243          0.33202480      0.49181887 0.41081316      0.44444444   1
## 244          0.67724247      0.79068385 0.68282711      0.50000000   1
## 245          0.39802326      0.42031241 0.60195007      0.55555556   1
## 246          0.41511705      0.47970901 0.51533352      0.38888889   0
## 247          0.57532641      0.54716381 0.55609381      0.55555556   0
## 248          0.83905506      0.50753356 0.49389358      0.55555556   1
## 249          0.55473189      0.51225423 0.60662462      0.55555556   0
## 250          0.60698684      0.39626418 0.36962523      0.33333333   0
## 251          0.51308600      0.53976511 0.39256213      0.44444444   1
## 252          0.44082380      0.52157148 0.44007234      0.50000000   0
## 253          0.34073700      0.16565751 0.09008749      0.11111111   0
## 254          0.44198617      0.34292509 0.39657499      0.38888889   0
## 255          0.64811187      0.55164217 0.47533742      0.55555556   0
## 256          0.49696372      0.35658590 0.27054332      0.27777778   0
## 257          0.54604737      0.59558515 0.62434893      0.55555556   1
## 258          0.24212603      0.31957892 0.18543207      0.16666667   0
## 259          0.29346871      0.41818284 0.36845895      0.44444444   1
## 260          0.61754821      0.72475219 0.52191621      0.44444444   0
## 261          0.62530650      0.54022016 0.67800417      0.61111111   1
## 262          0.60357616      0.34705780 0.30511652      0.33333333   0
## 263          0.57928952      0.52429905 0.50299736      0.50000000   1
## 264          0.46192234      0.40451920 0.40912513      0.38888889   0
## 265          0.52955015      0.53705197 0.52306714      0.66666667   1
## 266          0.12481158      0.37833859 0.28678739      0.33333333   0
## 267          0.46348135      0.49170218 0.42786884      0.50000000   0
## 268          0.48265092      0.55725833 0.54643430      0.55555556   1
## 269          0.29074573      0.53576610 0.51659636      0.50000000   1
## 270          0.48537959      0.54859517 0.46225203      0.44444444   0
## 271          0.57686847      0.52344577 0.49957559      0.61111111   1
## 272          0.45998515      0.54909347 0.56188255      0.55555556   1
## 273          0.54750729      0.46210512 0.51413051      0.55555556   0
## 274          0.50981156      0.61069960 0.54016780      0.55555556   1
## 275          0.45827797      0.40499571 0.36488391      0.50000000   0
## 276          0.55642503      0.38503219 0.48051737      0.44444444   0
## 277          0.72643264      0.33626651 0.51981166      0.50000000   0
## 278          0.33569662      0.42071212 0.32516785      0.44444444   0
## 279          0.56447335      0.68613365 0.75517124      0.55555556   1
## 280          0.58869262      0.43035294 0.63093225      0.61111111   1
```

540

```
## 281          0.42765754          0.54614318 0.69544096          0.61111111   1
## 282          0.61961082          0.73921059 0.62872246          0.61111111   1
## 283          0.49689353          0.25278772 0.39827351          0.38888889   1
## 284          0.69537686          0.50298734 0.56522151          0.44444444   1
## 285          0.71997980          0.56337136 0.47627936          0.61111111   0
## 286          0.32356469          0.34678983 0.43589246          0.50000000   1
## 287          0.64253504          0.67275853 0.67607499          0.61111111   1
## 288          0.76274363          0.57360983 0.55468652          0.50000000   1
## 289          0.59200110          0.50318011 0.54033108          0.44444444   1
## 290          0.58214923          0.56490528 0.52207634          0.50000000   0
## 291          0.46089088          0.36855888 0.43782163          0.44444444   1
## 292          0.57379348          0.39077932 0.30039615          0.38888889   0
## 293          0.25148558          0.42550629 0.53756885          0.55555556   1
## 294          0.27748904          0.37079157 0.47487318          0.50000000   1
## 295          0.61625592          0.80293078 0.62977474          0.55555556   1
## 296          0.71364665          0.69994992 0.77880366          0.72222222   1
## 297          0.57015327          0.59567581 0.43146670          0.38888889   1
## 298          0.19192561          0.24788955 0.39370440          0.38888889   0
## 299          0.48656590          0.51352385 0.59957893          0.50000000   1
## 300          0.43580863          0.22194219 0.35860538          0.38888889   1
## 301          0.41159912          0.34400639 0.45132587          0.55555556   1
## 302          0.61883693          0.52685600 0.48508647          0.61111111   0
## 303          0.40256495          0.28898972 0.42370357          0.44444444   0
## 304          0.55025699          0.83050809 0.65003110          0.61111111   0
## 305          0.70244081          0.68277708 0.68765005          0.66666667   1
## 306          0.58152946          0.63948305 0.54033108          0.55555556   1
## 307          0.52793200          0.67782234 0.52639878          0.50000000   1
## 308          0.75524099          0.66236933 0.61118830          0.66666667   1
## 309          0.63153096          0.59286047 0.57205670          0.44444444   1
## 310          0.28965604          0.30412016 0.34563744          0.38888889   1
## 311          0.40002281          0.55248333 0.44703975          0.38888889   1
## 312          0.37471766          0.69828466 0.54893803          0.61111111   0
## 313          0.52981733          0.56751021 0.54936145          0.50000000   0
## 314          0.44106724          0.30372412 0.41496831          0.50000000   0
## 315          0.36551009          0.39634640 0.57347785          0.50000000   0
## 316          0.30440712          0.29250223 0.31717192          0.33333333   0
## 317          0.61452774          0.55141101 0.65726551          0.66666667   1
## 318          0.36818095          0.35892728 0.41756528          0.50000000   0
## 319          0.65345154          0.71404793 0.55479991          0.66666667   1
## 320          0.57002738          0.40333867 0.46791260          0.38888889   0
## 321          0.51100522          0.53108126 0.51402412          0.61111111   1
## 322          0.66833070          0.65010059 0.69777823          0.72222222   1
## 323          0.56726150          0.43926844 0.26057019          0.33333333   0
## 324          0.80083986          0.86350660 0.63833022          0.66666667   1
## 325          0.73519544          0.38623654 0.61469883          0.55555556   1
## 326          0.36782520          0.44183227 0.39348603          0.33333333   0
## 327          0.49312479          0.42059630 0.27884660          0.44444444   0
## 328          0.40866833          0.60601018 0.53854075          0.55555556   1
## 329          0.64946599          0.46165890 0.37114446          0.27777778   0
## 330          0.35599374          0.26092153 0.26711044          0.22222222   0
## 331          0.69308404          0.36784229 0.39572018          0.38888889   0
## 332          0.41960582          0.45328591 0.42938149          0.44444444   1
## 333          0.76194305          0.59503258 0.63700916          0.50000000   1
## 334          0.57089871          0.60480318 0.68106673          0.66666667   1
## 335          0.56487573          0.59400023 0.45730632          0.55555556   1
## 336          0.49131222          0.21254666 0.20867864          0.27777778   0
## 337          0.36309805          0.41297471 0.39572018          0.61111111   0
## 338          0.67981935          0.52404552 0.53983338          0.66666667   1
```

```
## 339          0.90756073          0.51173423 0.61795075          0.50000000   1
## 340          0.45089909          0.27721965 0.55874595          0.61111111   1
## 341          0.38758094          0.46775529 0.49634000          0.61111111   0
## 342          0.48331855          0.50309418 0.48508647          0.55555556   0
## 343          0.29357810          0.49881305 0.43166311          0.44444444   1
## 344          0.25561743          0.37905750 0.38037668          0.55555556   1
## 345          0.60477179          0.48085049 0.45976602          0.55555556   0
## 346          0.72938744          0.66968692 0.57732524          0.50000000   1
## 347          0.47545925          0.53808120 0.48063452          0.44444444   1
## 348          0.52731985          0.57208365 0.54533167          0.61111111   1
## 349          0.44191679          0.51062606 0.54673626          0.44444444   1
## 350          0.42299322          0.45659781 0.47409207          0.61111111   1
## 351          0.44779034          0.50313540 0.37146362          0.33333333   1
## 352          0.62527604          0.40056976 0.49860573          0.38888889   0
## 353          0.53683913          0.51371847 0.57365678          0.44444444   1
## 354          0.42606222          0.48274636 0.57431359          0.72222222   1
## 355          0.47233552          0.52366813 0.50902580          0.38888889   1
## 356          0.44908198          0.48737763 0.43342046          0.38888889   0
## 357          0.40443244          0.55861991 0.51302627          0.55555556   1
## 358          0.29720446          0.31077560 0.37874059          0.27777778   0
## 359          0.53390586          0.60908546 0.48971020          0.38888889   1
## 360          0.34522333          0.40079537 0.36271668          0.33333333   0
## 361          0.49708502          0.51750833 0.54019568          0.66666667   1
## 362          0.75156361          0.74488073 0.55598372          0.50000000   0
## 363          0.46606001          0.49846857 0.48508647          0.50000000   0
## 364          0.45034429          0.34999833 0.42178535          0.33333333   0
## 365          0.53073426          0.61991948 0.50991999          0.55555556   1
## 366          0.52204641          0.68901764 0.69024702          0.83333333   1
## 367          0.61326566          0.67561616 0.50415128          0.50000000   1
## 368          0.32054971          0.29146564 0.28119894          0.27777778   0
## 369          0.72460139          0.80456978 0.64786078          0.66666667   1
## 370          0.62240539          0.65981228 0.48443163          0.61111111   0
## 371          0.33016064          0.37193389 0.53964694          0.66666667   1
## 372          0.52208912          0.40014995 0.41152391          0.44444444   1
## 373          0.64252392          0.51179416 0.46820617          0.38888889   0
## 374          0.57544693          0.57904748 0.44066463          0.44444444   0
## 375          0.38273333          0.43951151 0.39669509          0.50000000   1
## 376          0.60482851          0.48404016 0.44167999          0.44444444   0
## 377          0.50412932          0.35923910 0.36907278          0.44444444   0
## 378          0.59114602          0.54696807 0.47067483          0.55555556   1
## 379          0.74012596          0.78892523 0.72281734          0.61111111   0
## 380          0.48594181          0.65150744 0.64308606          0.66666667   1
## 381          0.58901892          0.68264149 0.62754877          0.61111111   0
## 382          0.56744382          0.47886588 0.26986267          0.33333333   0
## 383          0.55858439          0.56124670 0.55248490          0.50000000   1
## 384          0.35753244          0.43500597 0.53264488          0.38888889   0
## 385          0.43883534          0.42535509 0.31775134          0.38888889   1
## 386          0.37145540          0.65773789 0.68131994          0.61111111   1
## 387          0.54620508          0.39833213 0.45219153          0.50000000   0
## 388          0.43968942          0.45813145 0.60706024          0.61111111   0
## 389          0.48255329          0.51216209 0.50823659          0.55555556   1
## 390          0.33606078          0.42798907 0.47242625          0.55555556   0
## 391          0.52801953          0.56270341 0.62471065          0.61111111   1
## 392          0.37074915          0.18026876 0.34897474          0.38888889   0
## 393          0.50967304          0.49848332 0.56319922          0.50000000   1
## 394          0.60589087          0.43843928 0.33119076          0.50000000   1
## 395          0.72704634          0.48234699 0.36781282          0.38888889   1
## 396          0.24346463          0.42545797 0.31628349          0.38888889   0
```

```
## 397          0.54292161        0.66598194 0.56897644    0.50000000  1
## 398          0.49588924        0.48149754 0.65753925    0.72222222  1
## 399          0.48460284        0.57446603 0.37428571    0.44444444  1
## 400          0.46390422        0.26964473 0.16792978    0.22222222  0
## 401          0.60828779        0.46744055 0.50087065    0.55555556  1
## 402          0.27574011        0.27795363 0.29081497    0.38888889  0
## 403          0.39832733        0.29463616 0.30093776    0.38888889  0
## 404          0.77275702        0.59960204 0.48849090    0.38888889  1
## 405          0.65633720        0.72347090 0.59929483    0.77777778  0
## 406          0.48247838        0.42718583 0.50289810    0.33333333  1
## 407          0.68830256        0.45408421 0.48508647    0.38888889  1
## 408          0.68484837        0.87450449 0.80918820    0.77777778  1
## 409          0.70453849        0.67308595 0.56372880    0.61111111  1
## 410          0.45631215        0.60682726 0.49429391    0.55555556  1
## 411          0.61974083        0.17616354 0.30547344    0.38888889  0
## 412          0.48792176        0.43793555 0.52471847    0.44444444  0
## 413          0.49955195        0.74201096 0.72743933    0.66666667  1
## 414          0.30485828        0.40071680 0.27250601    0.27777778  0
## 415          0.23428482        0.48928841 0.41931288    0.33333333  0
## 416          0.47360188        0.58679471 0.55138001    0.55555556  1
## 417          0.56835557        0.48265815 0.40774401    0.38888889  1
## 418          0.35375132        0.34239851 0.32250254    0.33333333  0
## 419          0.59116509        0.46278860 0.45032155    0.33333333  0
## 420          0.40131717        0.43158272 0.56104781    0.55555556  1
## 421          0.43312565        0.53757432 0.57913385    0.55555556  1
## 422          0.51532651        0.58939552 0.53370173    0.55555556  0
## 423          0.31355984        0.23652466 0.32147742    0.38888889  0
## 424          0.72863938        0.68010585 0.75854730    0.72222222  1
## 425          0.59748251        0.69009586 0.73029502    0.72222222  0
## 426          0.40844355        0.37072759 0.22294537    0.38888889  0
## 427          0.65293518        0.63845227 0.45976602    0.61111111  1
## 428          0.68940166        0.59891404 0.71720177    0.66666667  1
## 429          0.63711711        0.60199461 0.58636826    0.44444444  1
## 430          0.57804795        0.36680035 0.37512338    0.33333333  0
## 431          0.35047167        0.29136087 0.28252289    0.33333333  0
## 432          0.39435848        0.42345067 0.30502995    0.27777778  0
## 433          0.47608417        0.50030347 0.44602064    0.55555556  0
## 434          0.41547822        0.41807160 0.25581121    0.27777778  0
## 435          0.51006367        0.58127357 0.62882870    0.55555556  1
## 436          0.42882614        0.34485202 0.37211248    0.44444444  0
## 437          0.39594004        0.34665679 0.27186165    0.33333333  1
## 438          0.26206338        0.42192339 0.42431740    0.38888889  0
## 439          0.51642382        0.47181050 0.58383622    0.55555556  1
## 440          0.36233192        0.27516494 0.21230085    0.16666667  0
## 441          0.09922712        0.16627338 0.20638692    0.27777778  0
## 442          0.51688388        0.52013154 0.63682043    0.55555556  1
## 443          0.69451305        0.62039097 0.55761730    0.50000000  1
## 444          0.37566910        0.51536795 0.47587903    0.61111111  0
## 445          0.44692048        0.49646817 0.45728363    0.38888889  0
## 446          0.57265326        0.55284827 0.61675280    0.66666667  1
## 447          0.36359815        0.40593039 0.44217891    0.55555556  0
## 448          0.54711600        0.52457915 0.57164707    0.55555556  0
## 449          0.22652114        0.57115226 0.75364657    0.66666667  0
## 450          0.51022688        0.46126369 0.59026371    0.50000000  1
## 451          0.43531217        0.54045426 0.39566206    0.44444444  0
## 452          0.40972553        0.64225894 0.66196111    0.72222222  1
## 453          0.66487345        0.60646543 0.52593963    0.61111111  0
## 454          0.70015463        0.72521532 0.64727420    0.72222222  1
```

543

```
## 455          0.57770303          0.45114208 0.47351141          0.44444444   0
## 456          0.47804895          0.47434258 0.52647043          0.61111111   0
## 457          0.37473971          0.32956179 0.46437785          0.38888889   0
## 458          0.49731844          0.44653122 0.52070972          0.61111111   1
## 459          0.52671486          0.50151987 0.24505815          0.27777778   0
## 460          0.40576685          0.56440353 0.42340358          0.55555556   1
## 461          0.62298703          0.69734510 0.62947014          0.72222222   1
## 462          0.49973789          0.42895423 0.43990257          0.38888889   1
## 463          0.62376848          0.63924417 0.46696236          0.50000000   1
## 464          0.51422246          0.56322354 0.41240189          0.50000000   1
## 465          0.32688485          0.42796942 0.36043196          0.38888889   0
## 466          0.50079831          0.40856710 0.47517077          0.33333333   1
## 467          0.57882625          0.61990154 0.63266851          0.61111111   1
## 468          0.55389688          0.42693043 0.38351406          0.33333333   0
## 469          0.62956441          0.72626237 0.76107935          0.77777778   1
## 470          0.42018103          0.31508288 0.50587589          0.55555556   0
## 471          0.52748874          0.54214821 0.40058852          0.55555556   0
## 472          0.58544085          0.32501855 0.47173063          0.44444444   0
## 473          0.48579202          0.55733913 0.49787996          0.38888889   1
## 474          0.36870371          0.50653094 0.48576243          0.55555556   0
## 475          0.47247486          0.54928758 0.52867344          0.50000000   0
## 476          0.39294791          0.41409381 0.44167999          0.44444444   0
## 477          0.38159480          0.51429910 0.70444008          0.72222222   1
## 478          0.37422142          0.33843693 0.40221955          0.33333333   0
## 479          0.62198538          0.62502863 0.59063276          0.55555556   1
## 480          0.36835765          0.51338252 0.58943741          0.61111111   0
## 481          0.22061160          0.40535332 0.33203843          0.38888889   1
## 482          0.53391623          0.71064721 0.80058831          0.72222222   1
## 483          0.22644021          0.25933082 0.31846159          0.27777778   0
## 484          0.48307840          0.39714781 0.31797152          0.38888889   0
## 485          0.45546862          0.50392077 0.52236380          0.55555556   1
## 486          0.49660783          0.54460572 0.48361862          0.55555556   0
## 487          0.62984830          0.52855133 0.51823324          0.55555556   1
## 488          0.71011137          0.67029038 0.68936089          0.77777778   0
## 489          0.59669048          0.50994469 0.69890358          0.66666667   0
## 490          0.67414797          0.60108876 0.57313257          0.61111111   1
## 491          0.63271821          0.83083991 0.91336376          0.94444444   1
## 492          0.52701544          0.51577587 0.56466502          0.66666667   1
## 493          0.45885894          0.55050507 0.63516394          0.55555556   1
## 494          0.42459022          0.68276081 0.37490079          0.50000000   0
## 495          0.38391338          0.31565089 0.39572018          0.38888889   0
## 496          0.30876976          0.29434097 0.38348718          0.44444444   0
## 497          0.50835136          0.58638234 0.40441029          0.38888889   0
## 498          0.50726456          0.48458376 0.52433922          0.55555556   1
## 499          0.71771442          0.67390793 0.56253725          0.55555556   0
## 500          0.50686756          0.50612723 0.69170132          0.61111111   0
## 501          0.16393450          0.25345351 0.25286718          0.16666667   0
## 502          0.43199580          0.37294667 0.34635806          0.33333333   0
## 503          0.46124921          0.53781338 0.49829714          0.55555556   0
## 504          0.44478644          0.32207537 0.12771003          0.22222222   0
## 505          0.37297999          0.33237974 0.22177861          0.16666667   0
## 506          0.35450617          0.37395825 0.46257941          0.44444444   0
## 507          0.46372306          0.50853909 0.44175548          0.50000000   1
## 508          0.43197304          0.53064060 0.63053626          0.61111111   0
## 509          0.80511474          0.87136115 0.69956556          0.66666667   0
## 510          0.64613803          0.70695150 0.56104781          0.61111111   1
## 511          0.64296210          0.50021142 0.67498983          0.61111111   0
## 512          0.48244041          0.60070221 0.66857751          0.72222222   0
```

```
## 513          0.37933457          0.48326733 0.53342551          0.55555556    1
## 514          0.51055213          0.54156506 0.38775072          0.38888889    1
## 515          0.36626261          0.35911291 0.38434629          0.44444444    0
## 516          0.32258001          0.48054830 0.49682119          0.50000000    1
## 517          0.38118732          0.34007340 0.34507929          0.33333333    0
## 518          0.34954635          0.43938977 0.48308309          0.50000000    0
## 519          0.43252798          0.25212747 0.34227915          0.22222222    0
## 520          0.33022778          0.48039262 0.46483011          0.50000000    1
## 521          0.26620685          0.51287769 0.52993983          0.55555556    0
## 522          0.56190710          0.46381274 0.50244906          0.44444444    1
## 523          0.26678678          0.38105732 0.34522114          0.22222222    0
## 524          0.49093287          0.52615533 0.50420961          0.44444444    0
## 525          0.51555306          0.56388896 0.58636826          0.55555556    1
## 526          0.49062574          0.62671360 0.48363959          0.55555556    0
## 527          0.42232618          0.67357396 0.38380468          0.44444444    0
## 528          0.46711147          0.64389211 0.61019927          0.61111111    1
## 529          0.52317385          0.44936357 0.45746416          0.38888889    0
## 530          0.41340269          0.30314258 0.45132587          0.27777778    1
## 531          0.64525912          0.51472699 0.49092965          0.55555556    0
## 532          0.25191356          0.49850569 0.57686585          0.66666667    0
## 533          0.72274732          0.63147233 0.59557570          0.61111111    0
## 534          0.52489661          0.37317356 0.41709310          0.38888889    0
## 535          0.46053832          0.55718198 0.49034786          0.55555556    1
## 536          0.53678277          0.44272095 0.35945470          0.38888889    1
## 537          0.53057794          0.44394253 0.49859071          0.44444444    1
## 538          0.32495541          0.64880311 0.57847894          0.61111111    0
## 539          0.59030866          0.51468351 0.50330808          0.44444444    1
## 540          0.39714156          0.44762057 0.49752004          0.44444444    1
## 541          0.48747754          0.30803539 0.36479578          0.38888889    0
## 542          0.64905058          0.37590968 0.25320448          0.27777778    1
## 543          0.42807498          0.32156663 0.44377416          0.33333333    0
## 544          0.48982925          0.42681497 0.50295973          0.44444444    0
## 545          0.65512493          0.59072545 0.52717760          0.50000000    0
## 546          0.37019295          0.48588152 0.48508647          0.44444444    0
## 547          0.56442442          0.27822325 0.37260525          0.38888889    0
## 548          0.42292267          0.48776340 0.58501784          0.61111111    1
## 549          0.43793672          0.63133900 0.48508647          0.61111111    1
## 550          0.62187916          0.54950120 0.49955530          0.55555556    0
## 551          0.62913860          0.44277655 0.50660885          0.44444444    0
## 552          0.49631994          0.33855058 0.44147230          0.33333333    1
## 553          0.43895031          0.50561438 0.49829714          0.61111111    1
## 554          0.64118876          0.54238891 0.47067483          0.50000000    0
## 555          0.55590810          0.57408244 0.54970517          0.50000000    1
## 556          0.76577589          0.57924543 0.50560762          0.50000000    1
## 557          0.25609027          0.25925513 0.32014184          0.33333333    0
## 558          0.50062126          0.47970226 0.54657899          0.50000000    0
## 559          0.30979040          0.57013563 0.59493826          0.61111111    0
## 560          0.37418909          0.29179157 0.30277925          0.38888889    0
## 561          0.27886760          0.16935581 0.19643337          0.16666667    0
## 562          0.69068594          0.57482674 0.63210842          0.55555556    0
## 563          0.76198730          0.47196909 0.77493896          0.66666667    1
## 564          0.33751254          0.31065386 0.24569315          0.33333333    0
## 565          0.52529274          0.53019408 0.35454550          0.33333333    1
## 566          0.50627685          0.33722189 0.23007339          0.27777778    0
## 567          0.28562648          0.40809419 0.56735845          0.44444444    1
## 568          0.41493006          0.62347300 0.58636826          0.72222222    0
## 569          0.61617564          0.58602463 0.63311370          0.55555556    0
## 570          0.44693376          0.48850985 0.45253161          0.44444444    1
```

545

```
## 571          0.47548324          0.62144033 0.59304094          0.55555556   1
## 572          0.98400916          0.90291537 0.86706351          0.88888889   1
## 573          0.26313998          0.25718771 0.20366851          0.33333333   1
## 574          0.52562037          0.65530753 0.65648642          0.72222222   0
## 575          0.38784237          0.45912936 0.40835784          0.38888889   0
## 576          0.33656638          0.56427902 0.60478313          0.38888889   0
## 577          0.70548004          0.65308797 0.56104781          0.55555556   1
## 578          0.51224264          0.42836385 0.46721321          0.50000000   1
## 579          0.43906904          0.34008599 0.33082651          0.44444444   0
## 580          0.60801323          0.59755433 0.70211888          0.61111111   1
## 581          0.57807672          0.64385073 0.51633914          0.44444444   1
## 582          0.53646675          0.61017944 0.62012886          0.61111111   1
## 583          0.56483275          0.44380343 0.37533630          0.38888889   1
## 584          0.48561470          0.47653783 0.52520776          0.50000000   1
## 585          0.44541025          0.42677521 0.39428211          0.50000000   0
## 586          0.64336668          0.59554926 0.61801882          0.61111111   1
## 587          0.42450402          0.46493267 0.50833725          0.50000000   1
## 588          0.46460754          0.59661516 0.57624008          0.72222222   1
## 589          0.49150212          0.46969637 0.42206669          0.44444444   0
## 590          0.51772434          0.43086428 0.40806779          0.38888889   0
## 591          0.71558451          0.57413146 0.59984897          0.61111111   1
## 592          0.45786885          0.49267815 0.43495198          0.38888889   0
## 593          0.58218317          0.59862343 0.84970092          0.77777778   0
## 594          0.36799782          0.47581826 0.22815840          0.27777778   0
## 595          0.39147575          0.36871807 0.28111375          0.16666667   0
## 596          0.60088359          0.42022596 0.42164623          0.38888889   1
## 597          0.66773745          0.46127732 0.37933250          0.38888889   0
## 598          0.56613422          0.66732649 0.61430806          0.44444444   1
## 599          0.41462650          0.63381692 0.51402412          0.33333333   0
## 600          0.52001771          0.50904175 0.38633672          0.50000000   0
## 601          0.52285833          0.43670742 0.35515259          0.55555556   0
## 602          0.51088550          0.39824839 0.27186165          0.22222222   0
## 603          0.31872930          0.34189554 0.35004408          0.38888889   0
## 604          0.54036613          0.44009521 0.44529720          0.44444444   1
## 605          0.48773535          0.37333011 0.32978772          0.33333333   0
## 606          0.66399959          0.65210778 0.53962282          0.50000000   0
## 607          0.38135809          0.37698451 0.38271563          0.27777778   0
## 608          0.57233596          0.74065289 0.84441665          0.83333333   1
## 609          0.29974278          0.29742961 0.26588825          0.33333333   0
## 610          0.55711014          0.52254688 0.45838491          0.38888889   0
## 611          0.69257931          0.64772487 0.60640202          0.61111111   1
## 612          0.35084117          0.47569665 0.29458780          0.27777778   1
## 613          0.57890079          0.49598761 0.57904874          0.50000000   1
## 614          0.58932536          0.53994515 0.52487574          0.66666667   1
## 615          0.63854270          0.53555228 0.56225355          0.55555556   0
## 616          0.73536575          0.68527297 0.60598590          0.55555556   1
## 617          0.63906448          0.64412056 0.61620035          0.61111111   1
## 618          0.68385064          0.63421246 0.57170905          0.50000000   1
## 619          0.35220184          0.35805256 0.44143301          0.38888889   0
## 620          0.55909081          0.63935057 0.69600162          0.72222222   1
## 621          0.48804589          0.64646748 0.66289228          0.61111111   0
## 622          0.42726358          0.30816808 0.32185039          0.33333333   0
## 623          0.33059406          0.36600207 0.40551721          0.50000000   0
## 624          0.74274784          0.68033588 0.73475786          0.77777778   1
## 625          0.60394324          0.45087565 0.50331719          0.44444444   1
## 626          0.74977123          0.77755056 0.70897253          0.66666667   0
## 627          0.63044134          0.62672268 0.55657950          0.50000000   1
## 628          0.57628272          0.58244910 0.48669838          0.55555556   0
```

```
## 629          0.60608354          0.54890178 0.46739335          0.55555556   1
## 630          0.53713245          0.76272951 0.80849764          0.83333333   1
## 631          0.48362814          0.50727350 0.45781830          0.55555556   1
## 632          0.42178081          0.50711852 0.32905777          0.38888889   0
## 633          0.49661548          0.48477902 0.47640517          0.55555556   1
## 634          0.40210200          0.57254123 0.57889535          0.50000000   1
## 635          0.59986070          0.67952290 0.48046660          0.55555556   1
## 636          0.49576006          0.60929643 0.60074374          0.55555556   1
## 637          0.39539372          0.48959332 0.57082630          0.50000000   1
## 638          0.67128937          0.66233901 0.64129538          0.77777778   1
## 639          0.61067505          0.67270879 0.56611190          0.61111111   1
## 640          0.47165535          0.77904006 0.63311370          0.61111111   1
## 641          0.53191048          0.50847076 0.55091963          0.55555556   0
## 642          0.45962504          0.48628817 0.43123028          0.38888889   1
## 643          0.46860164          0.51050288 0.44814249          0.55555556   1
## 644          0.60388441          0.56888122 0.64449520          0.66666667   0
## 645          0.39335312          0.42864470 0.49376777          0.50000000   1
## 646          0.61663211          0.66524084 0.43904929          0.50000000   0
## 647          0.40619078          0.57687034 0.53873845          0.61111111   0
## 648          0.49473263          0.39467556 0.38872408          0.50000000   1
## 649          0.50914070          0.49101694 0.50866068          0.50000000   1
## 650          0.48488811          0.50411226 0.50613204          0.50000000   0
## 651          0.37968471          0.57643372 0.49357904          0.55555556   0
## 652          0.44195167          0.38954087 0.37165086          0.33333333   1
## 653          0.45803920          0.34517802 0.21654504          0.33333333   1
## 654          0.40529443          0.46577561 0.46645993          0.38888889   1
## 655          0.30907623          0.49937470 0.50534283          0.55555556   1
## 656          0.29055469          0.24235511 0.25438906          0.44444444   0
## 657          0.46178574          0.60064889 0.44185156          0.44444444   0
## 658          0.78045275          0.51262392 0.49843103          0.44444444   1
## 659          0.57878785          0.41741461 0.45155870          0.50000000   1
## 660          0.59467190          0.36839149 0.29194445          0.27777778   0
## 661          0.29486197          0.59737988 0.63283873          0.44444444   1
## 662          0.40923893          0.65544899 0.58768361          0.55555556   1
## 663          0.61326646          0.56415582 0.54620479          0.61111111   1
## 664          0.48168174          0.37138813 0.30554148          0.27777778   0
## 665          0.30693520          0.34020713 0.31831420          0.27777778   0
## 666          0.26667041          0.31241751 0.30376736          0.33333333   0
## 667          0.51301986          0.53289900 0.49350065          0.55555556   0
## 668          0.69613086          0.77738187 0.66543007          0.61111111   1
## 669          0.28843584          0.47535776 0.51249213          0.50000000   1
## 670          0.73786441          0.31880984 0.29120419          0.55555556   0
## 671          0.21983162          0.49783633 0.31657706          0.33333333   1
## 672          0.45977633          0.44397354 0.45071050          0.44444444   1
## 673          0.44355757          0.45246897 0.49839779          0.44444444   0
## 674          0.61760393          0.44051785 0.31809857          0.44444444   0
## 675          0.67989188          0.55033809 0.58636826          0.61111111   1
## 676          0.34331786          0.56568762 0.53928111          0.38888889   0
## 677          0.31063079          0.46682158 0.44238222          0.44444444   1
## 678          0.47305205          0.50592424 0.50991999          0.38888889   0
## 679          0.67038172          0.54429700 0.55958702          0.55555556   1
## 680          0.49742087          0.51659865 0.53572737          0.50000000   0
## 681          0.52872370          0.59222538 0.60225560          0.61111111   0
## 682          0.73985221          0.71432569 0.55530851          0.55555556   1
## 683          0.69327827          0.33663650 0.58257696          0.55555556   0
## 684          0.46494899          0.40318495 0.50210862          0.44444444   1
## 685          0.54220264          0.71347737 0.64198117          0.61111111   1
## 686          0.70081400          0.55508657 0.46950466          0.50000000   0
```

```
## 687          0.32136407          0.30506549 0.37573149          0.16666667   1
## 688          0.36785591          0.50351154 0.57979152          0.61111111   1
## 689          0.25468380          0.47210507 0.48210759          0.50000000   1
## 690          0.47370552          0.52129927 0.46020583          0.50000000   0
## 691          0.93270648          0.87081302 0.82378590          0.72222222   1
## 692          0.30180921          0.47102887 0.42137696          0.44444444   1
## 693          0.54008351          0.40323480 0.47770561          0.33333333   0
## 694          0.49598618          0.44573778 0.46483011          0.38888889   1
## 695          0.48156681          0.48488920 0.42215076          0.44444444   1
## 696          0.40507508          0.54611112 0.47571116          0.61111111   1
## 697          0.45870825          0.63348707 0.67390467          0.66666667   1
## 698          0.50415101          0.64095972 0.63240544          0.55555556   1
## 699          0.52841823          0.55450000 0.62532280          0.66666667   0
## 700          0.58839851          0.53692478 0.57732524          0.55555556   0
## 701          0.35100516          0.39222711 0.44288572          0.27777778   1
## 702          0.45822940          0.53631237 0.58451056          0.55555556   0
## 703          0.25024086          0.23006933 0.32134758          0.50000000   0
## 704          0.50462257          0.67285774 0.69440217          0.72222222   1
## 705          0.48626110          0.48940602 0.40672635          0.50000000   0
## 706          0.23599914          0.61512896 0.41638069          0.38888889   1
## 707          0.60098930          0.50068517 0.47547871          0.44444444   1
## 708          0.17447455          0.26297914 0.32836623          0.38888889   0
## 709          0.37289253          0.68933486 0.64708756          0.44444444   1
## 710          0.74563470          0.63237965 0.56199921          0.38888889   0
## 711          0.60657775          0.64353017 0.63116598          0.72222222   0
## 712          0.10028994          0.46581503 0.32303561          0.44444444   0
## 713          0.27235238          0.54729956 0.50436493          0.38888889   0
## 714          0.62092872          0.51248447 0.46349746          0.33333333   0
## 715          0.54803997          0.45076762 0.37449569          0.44444444   1
## 716          0.24484647          0.45328059 0.39006574          0.38888889   0
## 717          0.64449916          0.58269317 0.68765005          0.61111111   1
## 718          0.59220424          0.63859195 0.55885538          0.61111111   1
## 719          0.60595624          0.52751537 0.49969442          0.33333333   0
## 720          0.49382511          0.37359683 0.49855745          0.72222222   1
## 721          0.64958563          0.67905582 0.71977011          0.55555556   0
## 722          0.74638317          0.38825369 0.29718210          0.44444444   0
## 723          0.64394935          0.60535235 0.50823659          0.61111111   1
## 724          0.49178842          0.58006528 0.61890120          0.55555556   1
## 725          0.49413665          0.60056551 0.46405102          0.50000000   0
## 726          0.57220130          0.64543383 0.51823324          0.44444444   1
## 727          0.38252966          0.35997481 0.38816089          0.33333333   1
## 728          0.19998193          0.53927937 0.52960594          0.44444444   0
## 729          0.53537917          0.55541772 0.58736261          0.55555556   1
## 730          0.56312644          0.51640881 0.59930094          0.55555556   0
## 731          0.66538098          0.59247885 0.61592897          0.66666667   0
## 732          0.56288663          0.58839720 0.59073969          0.50000000   1
## 733          0.45075847          0.39262434 0.35342014          0.38888889   1
## 734          0.38159205          0.38838920 0.25869188          0.27777778   0
## 735          0.65499988          0.25399953 0.44769012          0.61111111   1
## 736          0.57863517          0.63361577 0.61255331          0.66666667   1
## 737          0.50406547          0.57921063 0.47949851          0.50000000   1
## 738          0.51981801          0.58186708 0.59088977          0.50000000   0
## 739          0.52172846          0.56214894 0.46332772          0.50000000   1
## 740          0.48760294          0.47250535 0.29699172          0.33333333   1
## 741          0.50153433          0.56130167 0.56168614          0.55555556   1
## 742          0.48438068          0.34497550 0.35237240          0.38888889   0
## 743          0.61402969          0.57625885 0.68189540          0.72222222   1
## 744          0.44001146          0.50508379 0.47846915          0.50000000   0
```

548

```
## 745          0.42588963        0.45977744 0.42359395        0.50000000   0
## 746          0.52549594        0.51101853 0.51179815        0.50000000   1
## 747          0.65604878        0.61378875 0.49672487        0.55555556   1
## 748          0.53942743        0.51754673 0.53370173        0.38888889   0
## 749          0.59496501        0.37573701 0.34194154        0.44444444   0
## 750          0.57652068        0.39305140 0.32288186        0.44444444   0
## 751          0.66319866        0.52903485 0.46950466        0.55555556   0
## 752          0.33279887        0.37739024 0.34944121        0.38888889   0
## 753          0.58552957        0.60566853 0.53016243        0.66666667   0
## 754          0.37118467        0.49021976 0.47469859        0.44444444   1
## 755          0.76272125        0.61656681 0.40177403        0.33333333   1
## 756          0.41507640        0.48905428 0.49282327        0.50000000   0
## 757          0.48447364        0.40516299 0.44545447        0.50000000   1
## 758          0.40180771        0.31450594 0.30567301        0.27777778   0
## 759          0.43525661        0.54659634 0.49408189        0.61111111   1
## 760          0.50237183        0.62853067 0.59360267        0.50000000   0
## 761          0.81826208        0.26689721 0.55743061        0.50000000   0
## 762          0.53724144        0.69641320 0.64815015        0.61111111   1
## 763          0.35041794        0.31937021 0.35092098        0.38888889   1
## 764          0.46022037        0.44198150 0.39301212        0.50000000   0
## 765          0.30221949        0.33481190 0.42021317        0.50000000   0
## 766          0.43234213        0.53677448 0.51707019        0.61111111   0
## 767          0.60881029        0.45386381 0.37743030        0.33333333   0
## 768          0.62483905        0.53846380 0.45976602        0.55555556   1
## 769          0.45954804        0.76366641 0.62519295        0.50000000   1
## 770          0.65024549        0.49469962 0.44794981        0.50000000   0
## 771          0.55642537        0.40714329 0.44091137        0.38888889   0
## 772          0.91317331        0.51475227 0.64161287        0.66666667   1
## 773          0.55543278        0.67427066 0.62874125        0.61111111   1
## 774          0.42290544        0.36457406 0.36538981        0.38888889   0
## 775          0.62776945        0.63943790 0.61877843        0.50000000   0
## 776          0.42359981        0.48437226 0.42431740        0.44444444   0
## 777          0.60580196        0.56097010 0.57016317        0.50000000   0
## 778          0.41864874        0.56351410 0.56393805        0.44444444   0
## 779          0.80264412        0.45064733 0.36071286        0.55555556   0
## 780          0.29142654        0.37955497 0.36462507        0.38888889   0
## 781          0.42605429        0.41059270 0.38785595        0.55555556   1
## 782          0.55740402        0.49882484 0.42749486        0.44444444   0
## 783          0.60115091        0.53777855 0.48508647        0.55555556   1
## 784          0.62810544        0.67214766 0.59557570        0.55555556   1
## 785          0.39505633        0.58545099 0.59304618        0.38888889   1
## 786          0.43324734        0.43856373 0.50051989        0.50000000   0
## 787          0.31635649        0.56787668 0.58833109        0.44444444   1
## 788          0.47754185        0.50005812 0.50681743        0.61111111   1
## 789          0.53285591        0.53170425 0.55992523        0.50000000   1
## 790          0.53041151        0.60694270 0.69440217        0.55555556   1
## 791          0.59397653        0.38697475 0.49823995        0.44444444   1
## 792          0.49969862        0.51128691 0.44007234        0.38888889   0
## 793          0.54816765        0.56086129 0.48382831        0.50000000   0
## 794          0.43905456        0.49647831 0.52805450        0.50000000   1
## 795          0.39805531        0.46776412 0.19505225        0.27777778   0
## 796          0.49372097        0.44243540 0.50823659        0.55555556   0
## 797          0.36704391        0.37745663 0.44113239        0.50000000   0
## 798          0.46765946        0.43949967 0.31806588        0.27777778   0
## 799          0.76429423        0.82360910 0.66739369        0.77777778   0
## 800          0.37060684        0.27226671 0.37784693        0.44444444   1
## 801          0.59431506        0.43034195 0.37359139        0.50000000   0
## 802          0.35367820        0.33967539 0.36619046        0.38888889   1
```

549

## 803	0.51932232	0.40543222	0.38380468	0.33333333	1
## 804	0.54890237	0.35344784	0.36085309	0.22222222	0
## 805	0.46283086	0.47375608	0.36622931	0.55555556	0
## 806	0.20675689	0.35819900	0.50407681	0.55555556	1
## 807	0.41994474	0.38220756	0.40406104	0.44444444	1
## 808	0.42091861	0.37982035	0.42275921	0.38888889	0
## 809	0.33633012	0.26092731	0.31995312	0.50000000	0
## 810	0.64932488	0.64138666	0.55696387	0.55555556	0
## 811	0.67323859	0.73379101	0.71664368	0.61111111	1
## 812	0.54117135	0.39050696	0.43470160	0.61111111	0
## 813	0.54391468	0.44683369	0.48676286	0.50000000	0
## 814	0.40964400	0.56620487	0.48101050	0.72222222	0
## 815	0.63749207	0.46517757	0.25286718	0.38888889	0
## 816	0.76201074	0.76643557	0.74599126	0.61111111	0
## 817	0.66758670	0.67035552	0.60212895	0.55555556	0
## 818	0.38755574	0.49441509	0.40221955	0.44444444	1
## 819	0.63880968	0.57357468	0.60951838	0.50000000	1
## 820	0.45369123	0.48143331	0.70211888	0.61111111	1
## 821	0.47814593	0.49430600	0.51332261	0.38888889	1
## 822	0.30298834	0.42610855	0.51900409	0.55555556	1
## 823	0.51764739	0.49000133	0.59572582	0.66666667	1
## 824	0.89564957	0.44131988	0.50773333	0.44444444	0
## 825	0.16222784	0.27324198	0.30506679	0.27777778	0
## 826	0.57235171	0.57019833	0.62319800	0.55555556	0
## 827	0.50668858	0.56916955	0.53605408	0.44444444	1
## 828	0.53934879	0.44717700	0.41790768	0.22222222	0
## 829	0.60307897	0.52645152	0.50205801	0.55555556	0
## 830	0.52848370	0.59790518	0.58820975	0.61111111	1
## 831	0.40882240	0.43572523	0.53274849	0.61111111	1
## 832	0.25222653	0.57368720	0.53010060	0.38888889	1
## 833	0.43471008	0.37125554	0.46732010	0.55555556	0
## 834	0.29057538	0.36191035	0.38342392	0.38888889	1
## 835	0.61321672	0.50091923	0.42600543	0.55555556	1
## 836	0.53112710	0.51364483	0.66903610	0.55555556	1
## 837	0.50443622	0.32160637	0.36469491	0.33333333	0
## 838	0.39330122	0.41320080	0.41437591	0.33333333	0
## 839	0.60349022	0.49131735	0.48508647	0.50000000	0
## 840	0.68112543	0.74095790	0.53342551	0.44444444	0
## 841	0.61494556	0.44041758	0.37291354	0.55555556	1
## 842	0.78633633	0.54857953	0.65108049	0.66666667	1
## 843	0.40374624	0.40938133	0.51016577	0.55555556	1
## 844	0.41135732	0.58638560	0.60538724	0.66666667	1
## 845	0.84620478	0.51973524	0.64966938	0.61111111	0
## 846	0.43071006	0.58842412	0.54399333	0.55555556	1
## 847	0.49112515	0.63483594	0.61367031	0.66666667	1
## 848	0.57122444	0.53373880	0.55984208	0.55555556	1
## 849	0.43085260	0.44910670	0.52544544	0.55555556	1
## 850	0.32728804	0.52422761	0.26081965	0.22222222	0
## 851	0.43244396	0.47508140	0.44825673	0.38888889	0
## 852	0.71744213	0.72833160	0.64140967	0.61111111	1
## 853	0.41831911	0.53520311	0.62517518	0.50000000	0
## 854	0.41947691	0.49435583	0.55190432	0.61111111	0
## 855	0.26626011	0.26648712	0.32618355	0.38888889	0
## 856	0.35933754	0.24167549	0.30377082	0.55555556	0
## 857	0.52041020	0.42778695	0.30725697	0.50000000	1
## 858	0.61461837	0.55153372	0.59205352	0.55555556	1
## 859	0.18799838	0.42590112	0.20210897	0.33333333	0
## 860	0.48426027	0.56769006	0.55743061	0.44444444	1

```
## 861           0.41015218        0.43076364 0.45740017    0.44444444   0
## 862           0.36099439        0.38421137 0.55118616    0.55555556   1
## 863           0.46279359        0.29254355 0.33614266    0.38888889   0
## 864           0.43046177        0.41135056 0.37908868    0.50000000   0
## 865           0.47584030        0.59781049 0.63224805    0.44444444   0
## 866           0.53085849        0.47705227 0.61096527    0.61111111   1
## 867           0.55157627        0.60509181 0.65493629    0.66666667   1
## 868           0.52266535        0.56926783 0.40032960    0.44444444   1
## 869           0.46841115        0.49867431 0.50678971    0.50000000   1
## 870           0.47349958        0.45104406 0.31426608    0.44444444   0
## 871           0.51600000        0.62059643 0.60124181    0.61111111   0
## 872           0.47079045        0.33030660 0.46758928    0.50000000   0
## 873           0.56302251        0.60419231 0.52790105    0.50000000   0
## 874           0.63005149        0.62319230 0.63434385    0.55555556   0
## 875           0.58273286        0.63990473 0.50672252    0.55555556   0
## 876           0.71923970        0.50730369 0.48192963    0.33333333   1
## 877           0.33320161        0.45166414 0.42009732    0.50000000   1
## 878           0.55823159        0.38102525 0.55414224    0.50000000   1
## 879           0.52418638        0.34951824 0.31628349    0.44444444   1
## 880           0.38227839        0.52284545 0.45746416    0.44444444   0
## 881           0.51726235        0.63505263 0.61491131    0.66666667   1
## 882           0.56370091        0.42119372 0.38943145    0.33333333   1
## 883           0.53373202        0.43180748 0.33359661    0.44444444   0
## 884           0.61349787        0.64943926 0.56586610    0.61111111   1
## 885           0.33747558        0.39622098 0.52706511    0.38888889   0
## 886           0.56391389        0.63748161 0.68703248    0.77777778   1
## 887           0.68232445        0.46838278 0.47600603    0.33333333   1
## 888           0.41602192        0.43794643 0.53183191    0.44444444   0
## 889           0.45155957        0.46160279 0.37184967    0.33333333   0
## 890           0.58941492        0.56411131 0.57337240    0.50000000   0
## 891           0.58950263        0.48296836 0.38611969    0.44444444   0
## 892           0.50676893        0.41830091 0.53150729    0.50000000   0
## 893           0.75176834        0.81473655 0.68488782    0.55555556   1
## 894           0.61429329        0.56120978 0.36710988    0.27777778   0
## 895           0.75527038        0.78425601 0.62035318    0.72222222   1
## 896           0.46044891        0.51764029 0.43444557    0.44444444   0
## 897           0.57139950        0.72750646 0.80668904    0.72222222   1
## 898           0.26732587        0.34890415 0.40587892    0.55555556   1
## 899           0.45611948        0.54730300 0.47902334    0.55555556   1
## 900           0.57296805        0.78410285 0.75352256    0.66666667   1
## 901           0.56946484        0.61728233 0.64567742    0.66666667   1
## 902           0.50714011        0.65684458 0.55935978    0.55555556   1
## 903           0.47497093        0.42495835 0.51902542    0.44444444   1
## 904           0.52432043        0.45762563 0.31580119    0.55555556   0
## 905           0.47766461        0.60863388 0.47827761    0.72222222   1
## 906           0.64465100        0.60646643 0.59045220    0.77777778   1
## 907           0.53597400        0.55294964 0.49504367    0.44444444   1
## 908           0.48777956        0.39103940 0.32981125    0.44444444   0
## 909           0.32424336        0.41936431 0.44727663    0.50000000   0
## 910           0.69905585        0.71318468 0.62135652    0.61111111   1
## 911           0.66388237        0.66078576 0.38840840    0.33333333   0
## 912           0.48235647        0.48520631 0.34410773    0.33333333   0
## 913           0.59592870        0.72555345 0.67938759    0.66666667   1
## 914           0.32125085        0.33201159 0.41171344    0.50000000   1
## 915           0.45447835        0.48548392 0.45404224    0.38888889   1
## 916           0.42977979        0.54952136 0.53782424    0.61111111   1
## 917           0.45933225        0.46813507 0.52849295    0.72222222   1
## 918           0.46145520        0.33452818 0.43589781    0.50000000   0
```

```
## 919          0.66396390      0.50414876 0.43884913      0.44444444   1
## 920          0.41612166      0.33589222 0.32155644      0.38888889   1
## 921          0.41794304      0.36676013 0.43488593      0.33333333   0
## 922          0.51145642      0.42411599 0.49536454      0.50000000   0
## 923          0.42840206      0.23684888 0.45290616      0.55555556   0
## 924          0.36387456      0.34937717 0.39234152      0.50000000   0
## 925          0.39308711      0.37366335 0.43697762      0.61111111   1
## 926          0.43264391      0.46613819 0.45316069      0.55555556   0
## 927          0.43810507      0.47475085 0.44334947      0.44444444   0
## 928          0.65307087      0.61178679 0.57449384      0.50000000   0
## 929          0.73315208      0.48856064 0.42637239      0.55555556   1
## 930          0.49116094      0.45095086 0.56408627      0.55555556   1
## 931          0.57675321      0.38434238 0.53274849      0.66666667   0
## 932          0.52793027      0.72283222 0.49521465      0.44444444   0
## 933          0.55449771      0.67635922 0.52141581      0.44444444   1
## 934          0.59535575      0.46276300 0.39827351      0.38888889   1
## 935          0.61371378      0.65910831 0.41236080      0.61111111   1
## 936          0.41927015      0.29716399 0.51179815      0.61111111   0
## 937          0.46183467      0.50099321 0.59458030      0.66666667   0
## 938          0.54465265      0.35851133 0.41653599      0.55555556   0
## 939          0.40996121      0.57561347 0.47061764      0.55555556   1
## 940          0.62029438      0.46146104 0.39930483      0.38888889   0
## 941          0.49059280      0.49095697 0.38707183      0.50000000   0
## 942          0.68492293      0.44924671 0.44963784      0.55555556   0
## 943          0.39598509      0.41688158 0.43625418      0.55555556   1
## 944          0.63462331      0.65601927 0.58247281      0.55555556   1
## 945          0.32227346      0.56444508 0.48146926      0.38888889   0
## 946          0.51292665      0.44409109 0.41174448      0.55555556   0
## 947          0.62267900      0.49495589 0.59458030      0.44444444   1
## 948          0.67874602      0.59378382 0.61964656      0.66666667   0
## 949          0.44660412      0.53965918 0.59480841      0.55555556   0
## 950          0.59642199      0.46246013 0.48508647      0.55555556   1
## 951          0.56777492      0.46254064 0.58054420      0.55555556   0
## 952          0.48140500      0.42923000 0.41410265      0.44444444   0
## 953          0.60595978      0.44773182 0.49550053      0.44444444   1
## 954          0.44242141      0.45571257 0.40049095      0.33333333   1
## 955          0.43840957      0.52307724 0.46772388      0.44444444   1
## 956          0.42574125      0.50717986 0.50263007      0.50000000   1
## 957          0.58615690      0.53630430 0.52133469      0.55555556   0
## 958          0.55651471      0.56126712 0.44362051      0.33333333   1
## 959          0.41897502      0.45686232 0.45830523      0.50000000   0
## 960          0.48970005      0.43415385 0.39301212      0.33333333   1
## 961          0.60691738      0.66536032 0.59649644      0.61111111   1
## 962          0.52585410      0.49611925 0.49889762      0.61111111   1
## 963          0.53487386      0.45918172 0.43613360      0.50000000   0
## 964          0.45951643      0.39327058 0.42760221      0.38888889   1
## 965          0.50669732      0.54454049 0.48706270      0.44444444   1
## 966          0.58880461      0.57582535 0.50534283      0.55555556   0
## 967          0.48967909      0.67472056 0.76480852      0.72222222   1
## 968          0.61260316      0.57074116 0.56455372      0.55555556   1
## 969          0.51682258      0.52997668 0.63489912      0.61111111   1
## 970          0.55689973      0.57607966 0.67946566      0.61111111   0
## 971          0.54965322      0.43784226 0.32671858      0.44444444   0
## 972          0.52295875      0.54218739 0.58996333      0.38888889   1
## 973          0.48652306      0.46189603 0.46103204      0.44444444   0
## 974          0.45894710      0.35672703 0.37273434      0.61111111   1
## 975          0.51637193      0.60604817 0.56559251      0.72222222   0
## 976          0.68771547      0.72762458 0.68512946      0.44444444   1
```

552

```
## 977           0.57915246      0.56771831 0.65082031      0.66666667  1
## 978           0.42614410      0.45142760 0.50845919      0.50000000  1
## 979           0.51648725      0.47510072 0.45198462      0.33333333  1
## 980           0.46623508      0.62362236 0.56184741      0.66666667  1
## 981           0.57592303      0.39185907 0.37657027      0.50000000  0
## 982           0.51436688      0.55945882 0.61480507      0.33333333  1
## 983           0.42154312      0.38673305 0.43874712      0.50000000  1
## 984           0.68389967      0.89401055 0.64038522      0.55555556  1
## 985           0.46532674      0.48577386 0.54001404      0.61111111  1
## 986           0.60452783      0.58899315 0.57979152      0.50000000  0
## 987           0.26575046      0.36460911 0.29849564      0.38888889  0
## 988           0.38785127      0.29420200 0.31146054      0.38888889  0
## 989           0.42971653      0.70767033 0.49196080      0.66666667  1
## 990           0.55081691      0.52024727 0.53729156      0.66666667  1
## 991           0.52261324      0.63311598 0.54585554      0.55555556  1
## 992           0.68854233      0.90362927 0.72118098      0.72222222  1
## 993           0.47235183      0.55826299 0.63438980      0.66666667  0
## 994           0.76770341      0.54258911 0.45614882      0.61111111  0
## 995           0.59510558      0.79346641 0.67711483      0.66666667  1
## 996           0.55083279      0.50834177 0.61719315      0.55555556  1
## 997           0.47675385      0.52912416 0.41048719      0.50000000  1
## 998           0.38211931      0.33760876 0.32316887      0.22222222  0
## 999           0.65573606      0.63024448 0.60398248      0.44444444  1
## 1000          0.63624655      0.56920764 0.42498519      0.50000000  0
## 1001          0.41483230      0.63059619 0.70115429      0.61111111  0
## 1002          0.53584941      0.50298540 0.54033108      0.38888889  0
## 1003          0.56643296      0.63442692 0.69041228      0.61111111  1
## 1004          0.47079129      0.43313118 0.33352294      0.33333333  1
## 1005          0.40974467      0.51049997 0.61100437      0.66666667  1
## 1006          0.38275127      0.50702138 0.34401540      0.38888889  0
## 1007          0.48511878      0.47836470 0.51731249      0.50000000  0
## 1008          0.36324050      0.56793997 0.69202980      0.77777778  1
## 1009          0.42292023      0.50269568 0.29988548      0.22222222  0
## 1010          0.25475400      0.34363187 0.38055430      0.55555556  0
## 1011          0.35951017      0.31157744 0.35050484      0.33333333  0
## 1012          0.40231906      0.40784891 0.39651616      0.44444444  0
## 1013          0.60998285      0.60959622 0.60672684      0.50000000  1
## 1014          0.34952682      0.28163384 0.32111876      0.44444444  0
## 1015          0.62637446      0.44779666 0.55611526      0.61111111  0
## 1016          0.51229173      0.43254127 0.44963784      0.38888889  0
## 1017          0.47489097      0.44724319 0.52130060      0.50000000  0
## 1018          0.69956408      0.35740369 0.58214819      0.33333333  0
## 1019          0.34866303      0.51458266 0.57552320      0.55555556  1
## 1020          0.35648681      0.24222362 0.31198668      0.50000000  1
## 1021          0.28604620      0.49956845 0.51442326      0.44444444  0
## 1022          0.73805721      0.84771979 0.66486165      0.72222222  1
## 1023          0.42513024      0.47278188 0.35976890      0.27777778  0
## 1024          0.65627512      0.65050920 0.68542408      0.55555556  1
## 1025          0.43108039      0.44843130 0.68089793      0.77777778  1
## 1026          0.63512542      0.28274750 0.31338972      0.22222222  0
## 1027          0.67244234      0.70802210 0.75026061      0.77777778  1
## 1028          0.38224456      0.33284552 0.20300052      0.33333333  0
## 1029          0.62330941      0.58528956 0.50497879      0.38888889  1
## 1030          0.52440718      0.56040844 0.66475974      0.38888889  1
## 1031          0.35573105      0.47751826 0.53702585      0.61111111  0
## 1032          0.68847107      0.52757173 0.45663272      0.27777778  1
## 1033          0.65922425      0.54353701 0.47876048      0.44444444  1
## 1034          0.37997561      0.35315072 0.50386516      0.44444444  1
```

```
## 1035          0.29993630          0.40686547 0.40972895          0.38888889   1
## 1036          0.21914115          0.53008883 0.38051631          0.55555556   0
## 1037          0.58587670          0.50821577 0.41725975          0.50000000   0
## 1038          0.43133438          0.30598238 0.29345786          0.33333333   0
## 1039          0.38014731          0.53323964 0.32191025          0.38888889   0
## 1040          0.68261498          0.54757061 0.55800936          0.50000000   1
## 1041          0.32203793          0.52282447 0.53038019          0.61111111   0
## 1042          0.44676249          0.22801971 0.20924253          0.22222222   0
## 1043          0.51032826          0.60582357 0.66244629          0.61111111   1
## 1044          0.48167963          0.45835567 0.47651403          0.44444444   1
## 1045          0.44278173          0.52449343 0.47608364          0.61111111   0
## 1046          0.64867341          0.50722837 0.61389268          0.55555556   1
## 1047          0.66544938          0.58674701 0.48171041          0.44444444   0
## 1048          0.53436157          0.36991566 0.49426384          0.50000000   1
## 1049          0.32274546          0.40156178 0.43210050          0.55555556   0
## 1050          0.41269146          0.35982292 0.38872525          0.33333333   0
## 1051          0.47450233          0.33177890 0.38983336          0.44444444   0
## 1052          0.69258167          0.57185106 0.48677076          0.44444444   0
## 1053          0.66499451          0.50898636 0.54674485          0.55555556   1
## 1054          0.49821881          0.42780176 0.43613605          0.38888889   0
## 1055          0.42517920          0.33328444 0.37599754          0.44444444   0
## 1056          0.55800464          0.66851085 0.51553720          0.55555556   0
## 1057          0.48794472          0.67873886 0.55987918          0.50000000   1
## 1058          0.52574385          0.46094251 0.46386198          0.55555556   0
## 1059          0.41207108          0.53052027 0.48806535          0.61111111   0
## 1060          0.48379302          0.53614828 0.48508647          0.44444444   0
## 1061          0.61007977          0.58938894 0.53047800          0.50000000   0
## 1062          0.42348091          0.49814631 0.58974432          0.55555556   1
## 1063          0.46080534          0.62217327 0.53732655          0.66666667   1
## 1064          0.57676572          0.53473985 0.43281200          0.44444444   0
## 1065          0.58077811          0.38138757 0.40362542          0.55555556   1
## 1066          0.69284046          0.57723870 0.50640895          0.44444444   0
## 1067          0.34570308          0.43145483 0.34510057          0.55555556   0
## 1068          0.50743406          0.37026405 0.36106795          0.27777778   0
## 1069          0.47837017          0.56477808 0.58058073          0.61111111   1
## 1070          0.61812109          0.50736388 0.50512023          0.38888889   0
## 1071          0.60251243          0.51331430 0.51971984          0.55555556   0
## 1072          0.46392554          0.33242341 0.32295554          0.44444444   0
## 1073          0.87092230          0.67869586 0.60248127          0.66666667   1
## 1074          0.41185188          0.53043810 0.57216330          0.50000000   1
## 1075          0.41764963          0.52815688 0.45234558          0.66666667   1
## 1076          0.63304644          0.46070565 0.38865401          0.38888889   0
## 1077          0.48250498          0.52381375 0.42707963          0.50000000   1
## 1078          0.57725870          0.54188187 0.50295973          0.61111111   0
## 1079          0.27953379          0.44137041 0.40104413          0.50000000   0
## 1080          0.38017533          0.58147276 0.51270878          0.50000000   1
## 1081          0.30163093          0.45285114 0.48348518          0.50000000   1
## 1082          0.48947245          0.44231922 0.41382092          0.44444444   1
## 1083          0.54258196          0.54440748 0.58766342          0.61111111   0
## 1084          0.68075850          0.53647755 0.44878287          0.44444444   0
## 1085          0.63718971          0.54221886 0.45470193          0.50000000   1
## 1086          0.36107243          0.34156565 0.43444557          0.50000000   0
## 1087          0.69013421          0.29910291 0.49626239          0.44444444   0
## 1088          0.47967904          0.45633561 0.48508647          0.55555556   1
## 1089          0.41241607          0.63591692 0.48508647          0.61111111   1
## 1090          0.45136648          0.41063371 0.50690101          0.44444444   1
## 1091          0.34707343          0.53390115 0.55091963          0.66666667   1
## 1092          0.57210380          0.53809011 0.56968293          0.55555556   1
```

```
## 1093           0.36867898           0.36151863 0.29425025          0.33333333   0
## 1094           0.47849026           0.52915498 0.67915545          0.55555556   1
## 1095           0.67902775           0.57404509 0.59527215          0.72222222   1
## 1096           0.52397761           0.39622241 0.60482849          0.55555556   0
## 1097           0.41376714           0.34944260 0.43752806          0.66666667   0
## 1098           0.48639400           0.48675698 0.48888454          0.61111111   0
## 1099           0.32389467           0.65384869 0.48653335          0.50000000   0
## 1100           0.71140145           0.60368678 0.61335140          0.50000000   1
## 1101           0.69318958           0.63798326 0.58998547          0.38888889   1
## 1102           0.69324514           0.41433046 0.43246934          0.33333333   0
## 1103           0.49489037           0.54188205 0.55851577          0.55555556   0
## 1104           0.51824858           0.52687024 0.59640913          0.77777778   1
## 1105           0.65864863           0.63037129 0.57870735          0.55555556   1
## 1106           0.60988011           0.46964913 0.34720012          0.44444444   0
## 1107           0.47675788           0.46548285 0.31672194          0.27777778   1
## 1108           0.41825785           0.53891353 0.34535616          0.38888889   1
## 1109           0.55390853           0.44633176 0.37400322          0.50000000   1
## 1110           0.55823178           0.79692403 0.75306407          0.72222222   1
## 1111           0.68449782           0.64815170 0.63060628          0.55555556   0
## 1112           0.70967149           0.59329715 0.54296178          0.44444444   0
## 1113           0.43888324           0.38012826 0.49627203          0.55555556   1
## 1114           0.47001912           0.58026875 0.62327603          0.55555556   0
## 1115           0.54365776           0.50382119 0.53066875          0.50000000   1
## 1116           0.49914545           0.45955248 0.39261179          0.50000000   0
## 1117           0.31321453           0.29932057 0.27912836          0.33333333   1
## 1118           0.41626772           0.40532573 0.33806452          0.38888889   1
## 1119           0.58150369           0.39714127 0.43782536          0.55555556   1
## 1120           0.58687195           0.46121092 0.36769167          0.50000000   0
## 1121           0.66510206           0.47406347 0.41166929          0.55555556   0
## 1122           0.52462888           0.54761368 0.60550445          0.61111111   1
## 1123           0.60106144           0.71924471 0.76451212          0.88888889   1
## 1124           0.54169587           0.62622394 0.61343348          0.61111111   1
## 1125           0.42041613           0.44642176 0.39227552          0.55555556   1
## 1126           0.59409037           0.53220296 0.52424484          0.55555556   1
## 1127           0.40401532           0.27627110 0.30187309          0.38888889   1
## 1128           0.51352891           0.51629328 0.55274951          0.50000000   1
## 1129           0.43872054           0.42167255 0.46802848          0.44444444   0
## 1130           0.35585016           0.41309133 0.43151047          0.44444444   0
## 1131           0.77850919           0.67416694 0.62939893          0.61111111   1
## 1132           0.65987778           0.59500136 0.69150840          0.72222222   1
## 1133           0.53970723           0.42603535 0.52901107          0.38888889   0
## 1134           0.39101979           0.46867598 0.36382392          0.44444444   0
## 1135           0.38640569           0.34563126 0.35270939          0.44444444   1
## 1136           0.42976677           0.42885234 0.50823659          0.50000000   0
## 1137           0.48421322           0.44662449 0.48944268          0.55555556   0
## 1138           0.58071348           0.73584832 0.66919617          0.77777778   1
## 1139           0.79925779           0.53872583 0.47495829          0.72222222   1
## 1140           0.25041755           0.42518959 0.35023295          0.50000000   0
## 1141           0.47970614           0.40292154 0.32796985          0.44444444   1
## 1142           0.41035615           0.51502074 0.58734615          0.83333333   0
## 1143           0.63002385           0.47964711 0.38656691          0.38888889   1
## 1144           0.44870156           0.45580736 0.46388796          0.50000000   1
## 1145           0.51768556           0.47422283 0.40763569          0.44444444   0
## 1146           0.56897674           0.36484166 0.25685109          0.27777778   0
## 1147           0.48620428           0.38833251 0.41373816          0.22222222   0
## 1148           0.43772048           0.46350877 0.46738343          0.50000000   1
## 1149           0.51196704           0.45969730 0.41256207          0.50000000   1
## 1150           0.41864639           0.42018857 0.47806655          0.55555556   0
```

555

```
## 1151          0.68898207        0.55887486 0.48748841    0.38888889   0
## 1152          0.44387202        0.41520990 0.31122667    0.33333333   0
## 1153          0.53309206        0.51129626 0.54300294    0.44444444   1
## 1154          0.67733749        0.52062322 0.50389595    0.50000000   1
## 1155          0.46578090        0.49160142 0.49576212    0.55555556   1
## 1156          0.51809669        0.52622310 0.54347244    0.38888889   1
## 1157          0.52409688        0.46734139 0.37941509    0.38888889   0
## 1158          0.57299569        0.57003753 0.54254441    0.55555556   1
## 1159          0.60527533        0.76754342 0.66658280    0.55555556   1
## 1160          0.55621062        0.44922428 0.60887532    0.44444444   1
## 1161          0.42882557        0.35984061 0.48913774    0.50000000   0
## 1162          0.60842790        0.48555397 0.44477657    0.38888889   1
## 1163          0.56803566        0.53959523 0.47344111    0.44444444   0
## 1164          0.54710414        0.44204954 0.39147249    0.22222222   1
## 1165          0.73634464        0.76654120 0.56612927    0.50000000   0
## 1166          0.48271158        0.35233268 0.54401406    0.55555556   1
## 1167          0.48457766        0.29940464 0.27213501    0.38888889   0
## 1168          0.52412688        0.53143961 0.57543443    0.72222222   1
## 1169          0.56424585        0.47231651 0.38380468    0.38888889   0
## 1170          0.47829702        0.53617816 0.47196735    0.44444444   0
## 1171          0.59312251        0.69615396 0.61665025    0.55555556   1
## 1172          0.63995920        0.53692923 0.57913385    0.38888889   1
## 1173          0.37713097        0.52194394 0.54521587    0.44444444   0
## 1174          0.53960105        0.45593130 0.56210121    0.44444444   0
## 1175          0.41661219        0.53587528 0.58302930    0.55555556   1
## 1176          0.38982719        0.42676496 0.39273572    0.33333333   1
## 1177          0.59382861        0.48070723 0.40817872    0.50000000   1
## 1178          0.40686766        0.59102216 0.61573286    0.61111111   0
## 1179          0.49762992        0.49821291 0.54457812    0.61111111   1
## 1180          0.42342047        0.33386893 0.33288554    0.38888889   0
## 1181          0.72201183        0.39968725 0.52496829    0.38888889   1
## 1182          0.44577045        0.45926299 0.47587903    0.50000000   0
## 1183          0.52236645        0.53111062 0.37570214    0.55555556   0
## 1184          0.51729860        0.47637054 0.58911799    0.66666667   1
## 1185          0.36230473        0.39303873 0.35965287    0.50000000   1
## 1186          0.75088190        0.81981552 0.66144427    0.77777778   1
## 1187          0.59257295        0.47177122 0.57480685    0.50000000   0
## 1188          0.37002057        0.43352998 0.38543826    0.16666667   0
## 1189          0.65334201        0.66697023 0.57511473    0.50000000   1
## 1190          0.49160449        0.43566752 0.58205840    0.66666667   1
## 1191          0.46276830        0.50505887 0.46906553    0.33333333   0
## 1192          0.65015427        0.39269843 0.36706231    0.38888889   0
## 1193          0.44986184        0.53521926 0.60603103    0.50000000   1
## 1194          0.57527229        0.59440425 0.47158223    0.61111111   0
## 1195          0.29342218        0.36628555 0.33848640    0.50000000   1
## 1196          0.49969875        0.50086524 0.49600902    0.61111111   1
## 1197          0.49043828        0.45328396 0.49574771    0.55555556   1
## 1198          0.46033717        0.51309436 0.58994291    0.72222222   0
## 1199          0.38491446        0.40299595 0.36756939    0.44444444   0
## 1200          0.62159896        0.59490490 0.57678405    0.77777778   1
## 1201          0.54033269        0.51239702 0.46889275    0.44444444   0
## 1202          0.50642492        0.48015349 0.40023908    0.38888889   0
## 1203          0.72900616        0.64227959 0.61094553    0.38888889   1
## 1204          0.78407701        0.74449618 0.60053644    0.44444444   0
## 1205          0.37761769        0.41406393 0.49700197    0.55555556   0
## 1206          0.48897924        0.49624019 0.37345700    0.27777778   0
## 1207          0.46944714        0.33583459 0.33151796    0.38888889   1
## 1208          0.39570058        0.43778578 0.37498222    0.61111111   0
```

```
## 1209          0.51699313        0.41929452 0.34805817      0.44444444  0
## 1210          0.55823326        0.55975809 0.57254568      0.66666667  1
## 1211          0.57166171        0.53394654 0.46625247      0.44444444  1
## 1212          0.69013894        0.70738151 0.67602881      0.72222222  1
## 1213          0.33710602        0.34078548 0.42431740      0.72222222  1
## 1214          0.50641697        0.44314227 0.55923441      0.55555556  1
## 1215          0.55486231        0.57720799 0.50155867      0.61111111  0
## 1216          0.57937568        0.49833337 0.46638829      0.50000000  0
## 1217          0.52030248        0.57877968 0.53999186      0.61111111  1
## 1218          0.32151564        0.47454355 0.38067434      0.50000000  0
## 1219          0.44398373        0.38075393 0.41949107      0.38888889  0
## 1220          0.46668390        0.35654659 0.46867183      0.50000000  0
## 1221          0.38904923        0.40918623 0.44083529      0.44444444  1
## 1222          0.42727926        0.29099303 0.55062175      0.50000000  1
## 1223          0.46305803        0.48303141 0.31526044      0.27777778  0
## 1224          0.44593644        0.39213364 0.44017851      0.38888889  1
## 1225          0.39999159        0.43997363 0.45746416      0.55555556  1
## 1226          0.29212001        0.37031018 0.36193702      0.38888889  0
## 1227          0.47920609        0.56938283 0.48508647      0.44444444  1
## 1228          0.49368148        0.43524191 0.39938649      0.33333333  1
## 1229          0.40006850        0.51595448 0.49823995      0.61111111  0
## 1230          0.34812785        0.42692805 0.37632080      0.27777778  0
## 1231          0.49005325        0.57080051 0.41663779      0.61111111  1
## 1232          0.55794616        0.51603971 0.42015320      0.38888889  0
## 1233          0.46699636        0.46424589 0.44654998      0.22222222  0
## 1234          0.52294308        0.64548126 0.58875136      0.61111111  1
## 1235          0.55948763        0.55453672 0.50572814      0.55555556  0
## 1236          0.30970021        0.35414219 0.30277925      0.27777778  1
## 1237          0.48967946        0.38999881 0.44972433      0.50000000  0
## 1238          0.37476537        0.30055971 0.37908327      0.50000000  1
## 1239          0.65477743        0.69313294 0.73250342      0.61111111  1
## 1240          0.43532747        0.56723060 0.49524852      0.55555556  1
## 1241          0.27520412        0.37562492 0.26901865      0.27777778  0
## 1242          0.56025775        0.55274042 0.57374235      0.55555556  0
## 1243          0.40373186        0.42513590 0.38806022      0.55555556  0
## 1244          0.42109038        0.64939713 0.48508647      0.50000000  1
## 1245          0.60757609        0.53388241 0.44789609      0.38888889  1
## 1246          0.44316930        0.51322372 0.54389525      0.38888889  1
## 1247          0.46990188        0.32547326 0.35605299      0.72222222  1
## 1248          0.40084228        0.39539481 0.34184508      0.38888889  1
## 1249          0.40903464        0.59678058 0.59805462      0.50000000  1
## 1250          0.35797598        0.47433851 0.36055968      0.44444444  0
## 1251          0.40106331        0.35212042 0.46820617      0.50000000  1
## 1252          0.54331193        0.42312360 0.41968283      0.44444444  0
## 1253          0.50420685        0.55857722 0.57940654      0.66666667  1
## 1254          0.62900115        0.49576394 0.51235464      0.50000000  1
## 1255          0.61885114        0.48748229 0.41459731      0.50000000  0
## 1256          0.39720210        0.52959337 0.49215264      0.33333333  0
## 1257          0.59172747        0.66564726 0.62739806      0.55555556  1
## 1258          0.46488754        0.43158067 0.39341396      0.44444444  1
## 1259          0.67147519        0.66831454 0.52585337      0.55555556  1
## 1260          0.61704198        0.63391529 0.61383002      0.61111111  1
## 1261          0.48880298        0.51284557 0.44112736      0.50000000  0
## 1262          0.49682557        0.46906210 0.44167999      0.72222222  0
## 1263          0.55336765        0.49676520 0.45228265      0.66666667  1
## 1264          0.45818696        0.36415555 0.34763261      0.38888889  0
## 1265          0.62634956        0.60171225 0.42061000      0.38888889  0
## 1266          0.47751534        0.48705436 0.25883853      0.33333333  0
```

## 1267	0.53156663	0.65543543	0.57077927	0.72222222	0
## 1268	0.56695442	0.71033594	0.58696404	0.50000000	1
## 1269	0.52155485	0.44458230	0.35679620	0.38888889	0
## 1270	0.48257814	0.51709374	0.29597991	0.33333333	1
## 1271	0.55211831	0.66914448	0.59488514	0.66666667	1
## 1272	0.53551867	0.58398712	0.55036443	0.55555556	1
## 1273	0.54600151	0.52977845	0.56093883	0.66666667	0
## 1274	0.49302935	0.40638062	0.44237539	0.16666667	0
## 1275	0.49923767	0.48603018	0.45417197	0.44444444	1
## 1276	0.49811488	0.51524968	0.35342014	0.38888889	0
## 1277	0.29612306	0.28025169	0.41587725	0.44444444	0
## 1278	0.41075652	0.54418216	0.61021604	0.83333333	0
## 1279	0.36979219	0.47126936	0.38690910	0.27777778	1
## 1280	0.36942634	0.28277400	0.42946260	0.55555556	1
## 1281	0.50508969	0.40744157	0.45293352	0.44444444	1
## 1282	0.55352732	0.63565799	0.62742845	0.61111111	0
## 1283	0.55844844	0.44991423	0.29940319	0.33333333	0
## 1284	0.73699411	0.58114870	0.57768696	0.61111111	0
## 1285	0.64143670	0.65321334	0.61233795	0.50000000	1
## 1286	0.41587043	0.48054978	0.44648542	0.50000000	0
## 1287	0.35549822	0.35957546	0.37445559	0.61111111	0
## 1288	0.51510697	0.61956563	0.53964053	0.61111111	0
## 1289	0.41742648	0.31354240	0.31781806	0.27777778	0
## 1290	0.57727932	0.55933760	0.45032279	0.44444444	0
## 1291	0.44451732	0.25391917	0.40912513	0.44444444	0
## 1292	0.52982707	0.56280348	0.59383113	0.55555556	1
## 1293	0.37278812	0.37704427	0.45635927	0.44444444	0
## 1294	0.50334462	0.40077947	0.34366535	0.33333333	0
## 1295	0.47218395	0.42349634	0.39505821	0.55555556	1
## 1296	0.51273413	0.59338747	0.46554239	0.44444444	1
## 1297	0.36595333	0.38469009	0.53517087	0.72222222	0
## 1298	0.23291130	0.37954267	0.33976912	0.44444444	0
## 1299	0.39583564	0.60497545	0.62949783	0.50000000	1
## 1300	0.38534897	0.42900124	0.63845604	0.44444444	0
## 1301	0.46164087	0.44471427	0.42984186	0.50000000	1
## 1302	0.60393712	0.78520425	0.64713733	0.55555556	1
## 1303	0.69578205	0.50808972	0.52108209	0.61111111	1
## 1304	0.36561362	0.28128515	0.32685756	0.55555556	0
## 1305	0.45689652	0.47572506	0.48508647	0.61111111	1
## 1306	0.58041378	0.57969903	0.43928949	0.44444444	0
## 1307	0.53816561	0.47501038	0.43701492	0.55555556	0
## 1308	0.67606564	0.62082555	0.57329964	0.55555556	1
## 1309	0.54422015	0.61589298	0.54838759	0.33333333	1
## 1310	0.71283783	0.64675257	0.48552053	0.50000000	0
## 1311	0.54336770	0.44262758	0.36759819	0.38888889	1
## 1312	0.45978239	0.48765667	0.40849829	0.61111111	0
## 1313	0.59977024	0.37521680	0.39159559	0.50000000	0
## 1314	0.49059895	0.46570155	0.50427670	0.44444444	0
## 1315	0.45733529	0.49205244	0.60212321	0.66666667	1
## 1316	0.55254874	0.46175611	0.46680473	0.55555556	1
## 1317	0.65597740	0.54698272	0.49429391	0.44444444	0
## 1318	0.36847760	0.47467703	0.43444557	0.44444444	1
## 1319	0.45430464	0.46612138	0.52356595	0.55555556	1
## 1320	0.49155774	0.58074320	0.49249733	0.44444444	0
## 1321	0.51138163	0.35957265	0.46168875	0.38888889	1
## 1322	0.47554079	0.46100383	0.33465114	0.44444444	0
## 1323	0.57917262	0.51208707	0.51164102	0.55555556	1
## 1324	0.47038965	0.59030097	0.58154532	0.55555556	0

```
## 1325       0.46682867       0.52991039 0.60192295       0.72222222   1
## 1326       0.73594011       0.61853252 0.44167999       0.44444444   0
## 1327       0.68962809       0.61870297 0.69144812       0.55555556   1
## 1328       0.43280531       0.40441485 0.47284825       0.38888889   0
## 1329       0.41361157       0.37417727 0.43613179       0.55555556   1
## 1330       0.55228431       0.56420997 0.49889762       0.50000000   0
## 1331       0.44741279       0.44080386 0.49352662       0.44444444   0
## 1332       0.36730786       0.43964834 0.39545895       0.50000000   0
## 1333       0.66464976       0.57528306 0.65846422       0.83333333   1
## 1334       0.73300731       0.62224484 0.61286124       0.66666667   1
## 1335       0.39302880       0.56945761 0.63512794       0.55555556   0
## 1336       0.39157926       0.41785081 0.43785490       0.50000000   0
## 1337       0.43970129       0.36411371 0.40743710       0.33333333   1
## 1338       0.30290974       0.45908389 0.52133469       0.55555556   0
## 1339       0.52332977       0.54366873 0.39814413       0.61111111   1
## 1340       0.57884618       0.57126521 0.51532279       0.27777778   1
## 1341       0.62059540       0.61343468 0.48574521       0.33333333   1
## 1342       0.58251272       0.54774553 0.68933808       0.61111111   1
## 1343       0.73890358       0.56207820 0.48649316       0.44444444   0
## 1344       0.54043483       0.59145517 0.65193013       0.55555556   1
## 1345       0.50325565       0.47233102 0.39803155       0.50000000   1
## 1346       0.44372390       0.45515751 0.52168409       0.33333333   0
## 1347       0.43204501       0.41203890 0.33940718       0.27777778   0
## 1348       0.33143674       0.42214544 0.47488746       0.55555556   0
## 1349       0.41407017       0.36671679 0.44167999       0.50000000   1
## 1350       0.45903439       0.46417464 0.50399904       0.55555556   1
## 1351       0.61122021       0.63836670 0.62757266       0.55555556   1
## 1352       0.43087184       0.33363020 0.28811694       0.38888889   0
## 1353       0.41709046       0.50092603 0.49593809       0.44444444   0
## 1354       0.45287670       0.41825805 0.44060868       0.55555556   1
## 1355       0.51288446       0.36144080 0.28712661       0.44444444   0
## 1356       0.57171069       0.64136306 0.55356394       0.55555556   1
## 1357       0.52346026       0.55692744 0.51643560       0.44444444   0
## 1358       0.53656358       0.34678682 0.25931483       0.38888889   0
## 1359       0.38785039       0.39809714 0.31121132       0.50000000   0
## 1360       0.47923867       0.40774346 0.35182096       0.38888889   1
## 1361       0.49099729       0.46270243 0.40177218       0.27777778   0
## 1362       0.39580867       0.40092125 0.36647304       0.33333333   0
## 1363       0.37059160       0.17830285 0.35389765       0.55555556   1
## 1364       0.61532839       0.59016480 0.54676936       0.61111111   1
## 1365       0.40754052       0.49073721 0.36822287       0.27777778   0
## 1366       0.54839277       0.44857232 0.58869276       0.72222222   1
## 1367       0.60667735       0.64697156 0.66967661       0.72222222   1
## 1368       0.52859870       0.49828924 0.44402628       0.38888889   0
## 1369       0.73023922       0.80545283 0.65854774       0.50000000   1
## 1370       0.66845805       0.55580317 0.42070019       0.44444444   0
## 1371       0.35787816       0.28579012 0.39827351       0.33333333   0
## 1372       0.36229033       0.35534466 0.28950784       0.27777778   1
## 1373       0.44132657       0.47528849 0.32466251       0.50000000   0
## 1374       0.33414498       0.29825680 0.30298386       0.33333333   0
## 1375       0.71642466       0.75765899 0.48610041       0.44444444   1
## 1376       0.41902289       0.43462185 0.43497864       0.55555556   1
## 1377       0.56150535       0.49519133 0.72985080       0.77777778   1
## 1378       0.49261645       0.41809926 0.51014430       0.61111111   1
## 1379       0.60033112       0.51328235 0.61116985       0.55555556   1
## 1380       0.54794450       0.64240688 0.50873416       0.50000000   1
## 1381       0.38311435       0.39528072 0.38380468       0.33333333   0
## 1382       0.44561016       0.41311407 0.41179044       0.44444444   1
```

```
## 1383      0.37998591       0.30785569 0.44759674      0.44444444   1
## 1384      0.47635516       0.57229585 0.63700916      0.44444444   1
## 1385      0.52055902       0.46815824 0.46820617      0.50000000   0
## 1386      0.45991622       0.45656829 0.49041709      0.38888889   0
## 1387      0.41652313       0.38190587 0.38585769      0.44444444   1
## 1388      0.47756482       0.48668714 0.49215264      0.27777778   0
## 1389      0.62530028       0.62928720 0.50814038      0.27777778   1
## 1390      0.62117498       0.59890731 0.53483893      0.55555556   1
## 1391      0.56265828       0.40174870 0.36289288      0.33333333   1
## 1392      0.57103968       0.60666560 0.51829794      0.66666667   0
## 1393      0.55646883       0.58499451 0.51274978      0.44444444   1
## 1394      0.63452670       0.65845486 0.50152239      0.44444444   0
## 1395      0.43997157       0.39923929 0.37447511      0.33333333   0
## 1396      0.48507055       0.56787241 0.56668340      0.44444444   0
## 1397      0.46685588       0.42706742 0.35365726      0.33333333   0
## 1398      0.72479631       0.78329587 0.71696846      0.72222222   1
## 1399      0.42227949       0.41796382 0.49768612      0.38888889   0
## 1400      0.37538693       0.40884619 0.40093072      0.50000000   0
## 1401      0.46948840       0.45575351 0.58827205      0.55555556   1
## 1402      0.55690437       0.55976505 0.65687002      0.55555556   1
## 1403      0.62879156       0.74241798 0.64117958      0.44444444   1
## 1404      0.55609222       0.54254937 0.42066535      0.33333333   1
## 1405      0.29658909       0.46365631 0.43357745      0.50000000   0
## 1406      0.44239247       0.44967419 0.40370151      0.50000000   0
## 1407      0.54272316       0.73944556 0.63363310      0.50000000   1
## 1408      0.47990553       0.44972810 0.46650506      0.50000000   0
## 1409      0.42270371       0.40612832 0.42516011      0.38888889   1
## 1410      0.38890653       0.41846878 0.39531397      0.44444444   0
## 1411      0.37002194       0.32058293 0.30567301      0.27777778   0
## 1412      0.57452618       0.52207726 0.54348792      0.50000000   0
## 1413      0.58833428       0.46394614 0.43269934      0.33333333   0
## 1414      0.43742099       0.51077946 0.48610183      0.66666667   1
## 1415      0.59784287       0.67337302 0.58616072      0.66666667   1
## 1416      0.58060307       0.48400766 0.47317097      0.44444444   0
## 1417      0.60291684       0.63708560 0.52047755      0.38888889   0
## 1418      0.55879825       0.46589899 0.61912108      0.66666667   0
## 1419      0.36564277       0.35022051 0.38237818      0.38888889   0
## 1420      0.59514795       0.56505084 0.51918250      0.50000000   0
## 1421      0.46929884       0.33751071 0.44616472      0.50000000   1
## 1422      0.57343148       0.54616885 0.45044516      0.50000000   1
## 1423      0.29875623       0.32588456 0.40097108      0.44444444   1
## 1424      0.56315141       0.52343413 0.57005235      0.61111111   1
## 1425      0.68444068       0.57907189 0.49621320      0.44444444   1
## 1426      0.44582757       0.34209897 0.23318048      0.27777778   0
## 1427      0.41149594       0.41733650 0.52427929      0.50000000   0
## 1428      0.60765626       0.53426883 0.50368925      0.50000000   0
## 1429      0.46502252       0.35830166 0.45502865      0.38888889   0
## 1430      0.43860855       0.41405578 0.48167596      0.44444444   0
## 1431      0.36628935       0.65076371 0.58521733      0.55555556   1
## 1432      0.55931728       0.57122665 0.56264700      0.61111111   0
## 1433      0.46355153       0.55048150 0.38063962      0.55555556   1
## 1434      0.45024551       0.60905069 0.60048554      0.61111111   1
## 1435      0.53448745       0.63600219 0.45163002      0.61111111   0
## 1436      0.50097816       0.46181859 0.48201732      0.50000000   0
## 1437      0.65091469       0.63545122 0.67308212      0.77777778   1
## 1438      0.43986149       0.37552605 0.36075352      0.44444444   1
## 1439      0.24139927       0.54839638 0.43315653      0.61111111   1
## 1440      0.48676138       0.58611320 0.52729071      0.50000000   0
```

```
## 1441           0.46638596        0.34394666 0.33907382        0.33333333   0
## 1442           0.41465130        0.24398331 0.31691650        0.44444444   0
## 1443           0.56575378        0.51203790 0.49451848        0.44444444   0
## 1444           0.71978240        0.34910183 0.47402207        0.44444444   0
## 1445           0.68483211        0.74224636 0.57924515        0.55555556   1
## 1446           0.64346686        0.58759132 0.59113446        0.61111111   1
## 1447           0.85662846        0.64233873 0.65950161        0.61111111   1
## 1448           0.49557421        0.35389906 0.46121802        0.55555556   1
## 1449           0.65833447        0.88464770 0.65559603        0.44444444   1
## 1450           0.40097389        0.12286111 0.00000000        0.11111111   0
## 1451           0.52681610        0.70948951 0.68765005        0.66666667   1
## 1452           0.61874205        0.70604840 0.56556443        0.50000000   1
## 1453           0.15324671        0.31527003 0.38012171        0.38888889   1
## 1454           0.47736883        0.45464875 0.42281334        0.55555556   0
## 1455           0.39034363        0.26654314 0.33333315        0.44444444   0
## 1456           0.60467055        0.59899795 0.74218640        0.77777778   1
## 1457           0.44933422        0.38272178 0.39476477        0.44444444   0
## 1458           0.49992251        0.51111412 0.58636826        0.50000000   1
## 1459           0.61654100        0.45190864 0.48804793        0.61111111   0
## 1460           0.39339633        0.46880024 0.46071526        0.66666667   0
## 1461           0.28174770        0.46530958 0.46229807        0.55555556   0
## 1462           0.27885550        0.41162152 0.41359344        0.38888889   0
## 1463           0.53825758        0.56027373 0.52429232        0.72222222   1
## 1464           0.39198658        0.48767472 0.50281750        0.50000000   0
## 1465           0.18897612        0.24718254 0.24561512        0.38888889   1
## 1466           0.36827700        0.36613050 0.40406104        0.55555556   0
## 1467           0.61401420        0.70084829 0.74988678        0.72222222   1
## 1468           0.53945131        0.48448100 0.41970666        0.55555556   0
## 1469           0.37243067        0.35311497 0.46249284        0.50000000   0
## 1470           0.51061961        0.64296337 0.54422572        0.50000000   1
## 1471           0.44333970        0.57602494 0.55079848        0.61111111   1
## 1472           0.52840072        0.65675471 0.64210882        0.55555556   0
## 1473           0.50302983        0.46444686 0.38541233        0.27777778   0
## 1474           0.64259143        0.56765509 0.56620356        0.50000000   0
## 1475           0.33233623        0.25475904 0.21203624        0.22222222   0
## 1476           0.10467163        0.19132718 0.33014045        0.50000000   0
## 1477           0.53017825        0.59235486 0.65327840        0.66666667   1
## 1478           0.36384855        0.43330424 0.32457556        0.44444444   0
## 1479           0.31660885        0.30035402 0.45976602        0.55555556   1
## 1480           0.42688781        0.58334251 0.55354175        0.38888889   1
## 1481           0.32915090        0.41847853 0.42944305        0.44444444   0
## 1482           0.68577244        0.70245935 0.58511010        0.61111111   1
## 1483           0.36795653        0.33975980 0.33405000        0.44444444   0
## 1484           0.38860295        0.57932861 0.47631233        0.38888889   0
## 1485           0.56633850        0.65934154 0.63908921        0.61111111   0
## 1486           0.55702055        0.52980516 0.48508647        0.55555556   0
## 1487           0.47329040        0.38306326 0.39913021        0.38888889   0
## 1488           0.26551685        0.43156229 0.39103909        0.44444444   0
## 1489           0.37233100        0.32592085 0.36891494        0.38888889   0
## 1490           0.60524080        0.57025009 0.57732524        0.61111111   1
## 1491           0.61626501        0.76309675 0.56795339        0.61111111   0
## 1492           0.54133632        0.56398715 0.55186567        0.66666667   1
## 1493           0.55290295        0.51200253 0.46517271        0.38888889   0
## 1494           0.46138398        0.51190398 0.48801934        0.50000000   0
## 1495           0.50471514        0.59269747 0.49128740        0.61111111   0
## 1496           0.63766013        0.59806684 0.63099724        0.55555556   1
## 1497           0.58873739        0.71633828 0.71922614        0.72222222   1
## 1498           0.45039846        0.41994885 0.48034352        0.50000000   1
```

```
## 1499          0.48329381    0.55905363 0.51375113    0.50000000   0
## 1500          0.30191857    0.35357858 0.53138672    0.55555556   0
## 1501          0.57401493    0.57147909 0.48775764    0.50000000   0
## 1502          0.51203358    0.57842688 0.57965059    0.61111111   0
## 1503          0.30605283    0.56977951 0.48086640    0.66666667   0
## 1504          0.47886618    0.48195243 0.53307755    0.55555556   0
## 1505          0.62040744    0.68468301 0.65098696    0.66666667   1
## 1506          0.49069646    0.39169609 0.39759624    0.61111111   1
## 1507          0.57376721    0.65328514 0.55369672    0.44444444   1
## 1508          0.58650554    0.78480725 0.58152435    0.66666667   1
## 1509          0.46920938    0.52606931 0.57347785    0.38888889   0
## 1510          0.48260315    0.62654206 0.55951013    0.44444444   1
## 1511          0.63724825    0.45187749 0.54230410    0.44444444   1
## 1512          0.54513488    0.46138808 0.43269934    0.33333333   1
## 1513          0.47037857    0.52906317 0.61819968    0.72222222   1
## 1514          0.61961555    0.62098349 0.58958356    0.61111111   1
## 1515          0.58487063    0.64030062 0.60951838    0.44444444   1
## 1516          0.57752600    0.58581277 0.49849271    0.50000000   1
## 1517          0.55876241    0.46642659 0.39272044    0.50000000   0
## 1518          0.45686592    0.38178181 0.40558742    0.33333333   0
## 1519          0.45309642    0.51251594 0.40743099    0.33333333   0
## 1520          0.42459091    0.53889019 0.52214078    0.50000000   1
## 1521          0.44924084    0.48846568 0.55331841    0.44444444   0
## 1522          0.56033904    0.61160506 0.54219096    0.55555556   1
## 1523          0.34379128    0.36115858 0.55233094    0.55555556   1
## 1524          0.55499155    0.54685894 0.52450580    0.44444444   0
## 1525          0.59881721    0.56656178 0.52651993    0.55555556   1
## 1526          0.44807741    0.41293713 0.31995312    0.44444444   0
## 1527          0.52747562    0.53465774 0.50920118    0.44444444   0
## 1528          0.53796054    0.44848222 0.54864050    0.61111111   1
## 1529          0.46151709    0.49773378 0.48770670    0.55555556   1
## 1530          0.43647704    0.45591306 0.49120681    0.38888889   0
## 1531          0.49242300    0.51857362 0.48092990    0.50000000   1
## 1532          0.68213477    0.88792051 0.92332499    0.83333333   1
## 1533          0.69603163    0.68911977 0.54118100    0.50000000   0
## 1534          0.63747976    0.63506401 0.64074059    0.55555556   0
## 1535          0.58236124    0.65986690 0.54017931    0.50000000   1
## 1536          0.59036964    0.74377615 0.62168133    0.66666667   1
## 1537          0.50496797    0.58488152 0.71720177    0.72222222   1
## 1538          0.36803851    0.23052340 0.43960442    0.44444444   1
## 1539          0.62984308    0.64172350 0.50056008    0.44444444   1
## 1540          0.54633217    0.50221345 0.56450346    0.61111111   1
## 1541          0.41807733    0.43374231 0.32393389    0.27777778   0
## 1542          0.34740685    0.33655036 0.33312510    0.22222222   0
## 1543          0.48249123    0.36272952 0.36721542    0.38888889   0
## 1544          0.46399932    0.47480005 0.41933632    0.44444444   1
## 1545          0.41279901    0.42580715 0.52167193    0.61111111   0
## 1546          0.54036613    0.52721962 0.52980830    0.55555556   1
## 1547          0.38013367    0.39469407 0.38673690    0.27777778   0
## 1548          0.31204685    0.27135357 0.48508647    0.50000000   1
## 1549          0.44287993    0.52593408 0.58724410    0.55555556   1
## 1550          0.80690276    0.59543480 0.49460789    0.55555556   0
## 1551          0.57980811    0.79200473 0.88398091    0.88888889   1
## 1552          0.54521815    0.68936828 0.58531324    0.55555556   1
## 1553          0.71877418    0.53337079 0.41563610    0.50000000   0
## 1554          0.45640717    0.49081755 0.52290525    0.61111111   0
## 1555          0.47988477    0.54563033 0.48014589    0.61111111   1
## 1556          0.35175484    0.34251805 0.41545524    0.44444444   0
```

```
## 1557            0.39000687         0.47671442 0.32615197       0.50000000    0
## 1558            0.51595835         0.71865967 0.63266851       0.55555556    1
## 1559            0.45266641         0.39519405 0.29263721       0.33333333    0
## 1560            0.47741694         0.47653648 0.37587828       0.38888889    0
## 1561            0.73091559         0.70337015 0.57189943       0.50000000    0
## 1562            0.36623361         0.38103876 0.31747504       0.38888889    0
## 1563            0.69877564         0.91842104 0.72190713       0.72222222    1
## 1564            0.42343491         0.44349688 0.60159860       0.66666667    1
## 1565            0.49093923         0.40208003 0.32303561       0.33333333    0
## 1566            0.28195990         0.39851413 0.29737247       0.22222222    0
## 1567            0.55807498         0.37704982 0.43032364       0.38888889    1
## 1568            0.42852820         0.46498754 0.59369337       0.83333333    1
## 1569            0.45730722         0.41485965 0.33789027       0.27777778    0
## 1570            0.51169265         0.62772740 0.54478942       0.61111111    1
## 1571            0.46235747         0.49856567 0.35486703       0.38888889    0
## 1572            0.34536775         0.24808039 0.31921678       0.38888889    1
## 1573            0.47917807         0.51421541 0.34092840       0.44444444    0
## 1574            0.31010569         0.34863884 0.47293266       0.61111111    0
## 1575            0.52649892         0.58817140 0.59097198       0.72222222    1
## 1576            0.69982409         0.71294957 0.72660459       0.77777778    1
## 1577            0.32946303         0.11905692 0.16945168       0.27777778    0
## 1578            0.37686282         0.31237172 0.32977614       0.50000000    1
## 1579            0.62938075         0.63391438 0.54244038       0.44444444    1
## 1580            0.39560669         0.42433259 0.38774803       0.66666667    0
## 1581            0.20616253         0.31380388 0.32323179       0.38888889    0
## 1582            0.69396722         0.48864625 0.57624008       0.55555556    0
## 1583            0.27011759         0.29353931 0.22639081       0.11111111    0
## 1584            0.58481755         0.44908170 0.48508647       0.55555556    1
## 1585            0.65387424         0.61177671 0.61617404       0.61111111    1
## 1586            0.68423735         0.74117338 0.69971459       0.83333333    1
## 1587            0.65449920         0.55045217 0.60324856       0.66666667    1
## 1588            0.44232090         0.32763352 0.32544312       0.33333333    0
## 1589            0.53322263         0.58500414 0.51914386       0.44444444    1
## 1590            0.30389947         0.34548596 0.37459724       0.44444444    0
## 1591            0.69785000         0.68600182 0.60630138       0.55555556    0
## 1592            0.47628456         0.46391683 0.56776548       0.27777778    1
## 1593            0.40639061         0.60995623 0.59014850       0.50000000    1
## 1594            0.61705577         0.54565915 0.35013177       0.27777778    0
## 1595            0.35419317         0.49127489 0.34002815       0.38888889    0
## 1596            0.21030515         0.09424004 0.20061675       0.33333333    0
## 1597            0.54874348         0.57740674 0.37991919       0.50000000    1
## 1598            0.51489121         0.76624895 0.66347311       0.72222222    1
## 1599            0.29686836         0.39121372 0.33376427       0.38888889    1
## 1600            0.49166645         0.37658234 0.39783405       0.44444444    0
## 1601            0.53868675         0.49095611 0.52602199       0.44444444    0
## 1602            0.38712786         0.34295011 0.34200992       0.38888889    0
## 1603            0.40497350         0.20917430 0.15406794       0.22222222    0
## 1604            0.50115277         0.59644089 0.48232981       0.55555556    0
## 1605            0.32840371         0.48332216 0.40879629       0.33333333    0
## 1606            0.42475324         0.44044006 0.37784693       0.44444444    1
## 1607            0.52728615         0.52670665 0.51287240       0.55555556    1
## 1608            0.39595854         0.42238520 0.39285630       0.33333333    0
## 1609            0.51073755         0.57197067 0.50590917       0.50000000    1
## 1610            0.37483544         0.34141779 0.32716157       0.61111111    0
## 1611            0.48648384         0.52031603 0.51715904       0.44444444    1
## 1612            0.58364729         0.51350372 0.59439744       0.50000000    1
## 1613            0.64967117         0.73248619 0.67535155       0.55555556    1
## 1614            0.25014551         0.43356733 0.47691199       0.44444444    0
```

```
## 1615        0.41252974         0.53110988 0.46736814      0.50000000   1
## 1616        0.67178492         0.68673570 0.66680937      0.66666667   1
## 1617        0.44058162         0.61876457 0.62408018      0.61111111   1
## 1618        0.59347714         0.44731080 0.58517671      0.66666667   1
## 1619        0.60533438         0.60745531 0.62532280      0.72222222   0
## 1620        0.54470151         0.54072011 0.53331589      0.50000000   1
## 1621        0.54213278         0.64904170 0.48756887      0.61111111   1
## 1622        0.62140655         0.46674504 0.55625535      0.61111111   1
## 1623        0.54713753         0.32812395 0.44985182      0.55555556   1
## 1624        0.75874646         0.68919744 0.69140123      0.72222222   1
## 1625        0.51946358         0.59989468 0.55406576      0.44444444   0
## 1626        0.53382063         0.56719232 0.61981036      0.55555556   1
## 1627        0.55710149         0.38086518 0.54150829      0.50000000   1
## 1628        0.41363574         0.60846385 0.55810169      0.50000000   1
## 1629        0.53260317         0.48930590 0.49497286      0.55555556   0
## 1630        0.53513175         0.65121644 0.52309848      0.61111111   0
## 1631        0.45754880         0.53468794 0.46916010      0.50000000   0
## 1632        0.32497018         0.41430537 0.61479525      0.66666667   1
## 1633        0.54109511         0.48453684 0.57728318      0.66666667   0
## 1634        0.31555610         0.46861286 0.48876944      0.50000000   1
## 1635        0.79173519         0.73854532 0.74552536      0.72222222   0
## 1636        0.23872797         0.48485405 0.43341072      0.38888889   0
## 1637        0.47384753         0.35147729 0.40221955      0.55555556   0
## 1638        0.44999423         0.43555829 0.47061764      0.44444444   1
## 1639        0.55786860         0.46843633 0.40044383      0.38888889   0
## 1640        0.50507900         0.61153869 0.49829714      0.50000000   1
## 1641        0.55558457         0.62751643 0.64713733      0.61111111   1
## 1642        0.74125756         0.74803396 0.69463500      0.66666667   0
## 1643        0.55818746         0.39139926 0.52306714      0.50000000   0
## 1644        0.44224361         0.75321381 0.54900371      0.61111111   1
## 1645        0.77839390         0.69177200 0.68103221      0.50000000   1
## 1646        0.61697876         0.50500061 0.50512023      0.55555556   1
## 1647        0.51660091         0.64876018 0.57019304      0.66666667   1
## 1648        0.51312227         0.64738997 0.69544096      0.61111111   0
## 1649        0.84300447         0.60989493 0.46944737      0.50000000   1
## 1650        0.51826481         0.43121891 0.27134243      0.27777778   1
## 1651        0.70999135         0.58491363 0.47935354      0.44444444   1
## 1652        0.53324421         0.48011687 0.39902484      0.44444444   0
## 1653        0.55742760         0.28881513 0.48241530      0.44444444   0
## 1654        0.51261379         0.63030637 0.51554716      0.44444444   1
## 1655        0.57736549         0.48601349 0.48277146      0.33333333   0
## 1656        0.53663727         0.56395820 0.65946729      0.66666667   1
## 1657        0.45767101         0.47076107 0.44488539      0.55555556   1
## 1658        0.44713262         0.39835703 0.35791137      0.44444444   1
## 1659        0.55127895         0.32072467 0.41756528      0.27777778   0
## 1660        0.45781503         0.21244605 0.33849440      0.33333333   1
## 1661        0.50687381         0.48607306 0.45728785      0.50000000   1
## 1662        0.55000677         0.47041044 0.42431740      0.38888889   0
## 1663        0.59050197         0.54328104 0.57883676      0.61111111   0
## 1664        0.64343080         0.20261321 0.31037538      0.33333333   0
## 1665        0.54359996         0.54659041 0.45247561      0.61111111   1
## 1666        0.43585876         0.44754346 0.49865100      0.50000000   0
## 1667        0.42650343         0.33353653 0.35321223      0.33333333   1
## 1668        0.50529121         0.44402857 0.39608126      0.38888889   0
## 1669        0.60248759         0.30734977 0.39231575      0.33333333   0
## 1670        0.57876333         0.35903266 0.51275369      0.50000000   0
## 1671        0.50774878         0.51989757 0.47956201      0.55555556   1
## 1672        0.50507688         0.27869523 0.39912680      0.33333333   0
```

```
## 1673           0.59475942          0.30354000 0.45976602          0.33333333   0
## 1674           0.40668119          0.52825788 0.49655233          0.50000000   1
## 1675           0.38846274          0.39251025 0.30232911          0.33333333   0
## 1676           0.78445087          0.57932506 0.73829095          0.61111111   1
## 1677           0.43033380          0.38266312 0.35666697          0.38888889   0
## 1678           0.76210403          0.93963354 0.64713733          0.50000000   1
## 1679           0.67398543          0.73314491 0.60532475          0.50000000   0
## 1680           0.47431637          0.41810869 0.48508647          0.61111111   0
## 1681           0.44831951          0.37177493 0.35112744          0.44444444   0
## 1682           0.37927319          0.59649940 0.49698739          0.44444444   0
## 1683           0.44055503          0.42453891 0.31540659          0.22222222   1
## 1684           0.36103483          0.36846924 0.37306974          0.50000000   1
## 1685           0.51607668          0.56495036 0.41174448          0.38888889   0
## 1686           0.38732707          0.40239445 0.45132587          0.44444444   0
## 1687           0.74290784          0.67870002 0.63944642          0.61111111   1
## 1688           0.32275846          0.34922357 0.46206788          0.38888889   0
## 1689           0.48177420          0.44341843 0.54675488          0.66666667   0
## 1690           0.44984214          0.60235541 0.61801882          0.44444444   1
## 1691           0.43370450          0.44895405 0.54055031          0.50000000   1
## 1692           0.50098341          0.28149710 0.38331540          0.27777778   0
## 1693           0.45492510          0.44119231 0.51874319          0.50000000   0
## 1694           0.57599844          0.66978868 0.51547101          0.44444444   0
## 1695           0.23885483          0.38961462 0.53514795          0.61111111   1
## 1696           0.54141581          0.54009848 0.43950966          0.61111111   1
## 1697           0.42327105          0.34364778 0.40512716          0.22222222   1
## 1698           0.40620617          0.33766413 0.42974997          0.44444444   0
## 1699           0.44515443          0.35703661 0.47891254          0.50000000   0
## 1700           0.47036382          0.41915762 0.43997004          0.44444444   0
## 1701           0.58840059          0.48212967 0.46324138          0.33333333   0
## 1702           0.49697776          0.57893157 0.58926203          0.61111111   1
## 1703           0.53351151          0.46699184 0.52630745          0.77777778   0
## 1704           0.52282165          0.57811669 0.59370300          0.55555556   1
## 1705           0.44363976          0.43219337 0.40112758          0.38888889   1
## 1706           0.39701917          0.43416604 0.56191012          0.77777778   1
## 1707           0.39158706          0.44369183 0.40489430          0.27777778   0
## 1708           0.37002356          0.28904658 0.52065178          0.55555556   1
## 1709           0.54109834          0.51241855 0.37320184          0.22222222   0
## 1710           0.40724997          0.34918265 0.39395824          0.50000000   0
## 1711           0.61254007          0.63447693 0.51270878          0.72222222   0
## 1712           0.47428280          0.47220345 0.42564640          0.33333333   0
## 1713           0.41168787          0.51488029 0.42213331          0.44444444   0
## 1714           0.44924734          0.34768399 0.37126503          0.44444444   1
## 1715           0.38011293          0.47176615 0.49757246          0.61111111   0
## 1716           0.35046994          0.47695695 0.54953852          0.50000000   1
## 1717           0.48050431          0.62992331 0.57826572          0.55555556   1
## 1718           0.47898175          0.50518177 0.41786504          0.44444444   0
## 1719           0.52623504          0.63771066 0.63807155          0.66666667   1
## 1720           0.49726073          0.46907928 0.46799517          0.44444444   1
## 1721           0.49727699          0.33741795 0.32208236          0.33333333   0
## 1722           0.68872069          0.64846943 0.53770039          0.50000000   1
## 1723           0.46816002          0.44492102 0.47899051          0.50000000   0
## 1724           0.62458406          0.49424975 0.42721116          0.44444444   1
## 1725           0.59248346          0.54808087 0.42706647          0.33333333   0
## 1726           0.48519092          0.36632783 0.42400280          0.44444444   0
## 1727           0.63410364          0.59113804 0.51460520          0.61111111   1
## 1728           0.58686248          0.50304829 0.59207428          0.66666667   1
## 1729           0.43141865          0.37440081 0.43576092          0.33333333   0
## 1730           0.60524432          0.53201662 0.51696850          0.44444444   0
```

```
## 1731            0.38492308       0.53045647 0.50593860       0.44444444   0
## 1732            0.43794336       0.54670175 0.55708446       0.50000000   1
## 1733            0.61589119       0.63856937 0.45904258       0.55555556   1
## 1734            0.53245278       0.45705987 0.49628077       0.55555556   0
## 1735            0.41831653       0.40023747 0.39393286       0.44444444   0
## 1736            0.57885960       0.47473793 0.44548269       0.38888889   0
## 1737            0.66817880       0.51601076 0.53208652       0.55555556   1
## 1738            0.52015544       0.54661464 0.52278279       0.55555556   1
## 1739            0.60249988       0.66101033 0.44866665       0.50000000   1
## 1740            0.32409067       0.28294340 0.38549271       0.44444444   0
## 1741            0.36062465       0.26089044 0.36518670       0.44444444   0
## 1742            0.45204663       0.50743540 0.53323202       0.44444444   1
## 1743            0.63984898       0.63362601 0.49252324       0.61111111   1
## 1744            0.45742623       0.64092566 0.58058073       0.72222222   1
## 1745            0.45720194       0.45133164 0.50517881       0.38888889   1
## 1746            0.50889829       0.54066047 0.61597371       0.55555556   1
## 1747            0.48262865       0.47122314 0.35597913       0.50000000   0
## 1748            0.57134695       0.40111010 0.40562275       0.27777778   1
## 1749            0.52012718       0.38483560 0.38960035       0.27777778   0
## 1750            0.23517657       0.14459929 0.32683367       0.44444444   1
## 1751            0.64882410       0.57193008 0.62710115       0.77777778   1
## 1752            0.44526404       0.70891888 0.60807150       0.77777778   1
## 1753            0.50161556       0.56688593 0.50628498       0.50000000   1
## 1754            0.54258655       0.65373138 0.52114724       0.50000000   0
## 1755            0.48748516       0.53238156 0.54211317       0.61111111   1
## 1756            0.53500451       0.48309900 0.50289515       0.50000000   0
## 1757            0.36276567       0.41565564 0.41771367       0.55555556   0
## 1758            0.75792640       0.58099635 0.41903313       0.50000000   1
## 1759            0.49688232       0.38877158 0.42436357       0.33333333   1
## 1760            0.67931958       0.61544342 0.69406609       0.66666667   1
## 1761            0.53546646       0.45969341 0.49035408       0.44444444   0
## 1762            0.44534816       0.42228258 0.49275933       0.50000000   0
## 1763            0.26176458       0.31464580 0.25530341       0.38888889   0
## 1764            0.40734275       0.40694748 0.31106594       0.38888889   1
## 1765            0.43943570       0.36158328 0.27384159       0.33333333   0
## 1766            0.60677265       0.49056212 0.71899008       0.61111111   1
## 1767            0.51177292       0.41783393 0.22834891       0.16666667   0
## 1768            0.25266942       0.47992628 0.42700880       0.38888889   1
## 1769            0.55707957       0.67543233 0.55560153       0.66666667   1
## 1770            0.42452886       0.61974710 0.50684522       0.50000000   1
## 1771            0.52621622       0.44199773 0.43734644       0.44444444   0
## 1772            0.51967349       0.56402287 0.59953221       0.66666667   1
## 1773            0.51342909       0.53370118 0.46039903       0.44444444   0
## 1774            0.27520575       0.28365726 0.27480052       0.16666667   0
## 1775            0.63659144       0.44930439 0.37404864       0.38888889   1
## 1776            0.63693643       0.66103545 0.46769627       0.55555556   1
## 1777            0.42346748       0.53690328 0.65388945       0.83333333   1
## 1778            0.35098633       0.39045603 0.37847406       0.38888889   0
## 1779            0.38909229       0.29016230 0.33444448       0.38888889   0
## 1780            0.52579439       0.49695572 0.54838759       0.44444444   1
## 1781            0.49979466       0.52207935 0.53473441       0.33333333   1
## 1782            0.62109767       0.59012114 0.57189943       0.66666667   1
## 1783            0.66342335       0.52434287 0.51547101       0.38888889   0
## 1784            0.67749224       0.78149915 0.79038565       0.83333333   1
## 1785            0.57626010       0.46993594 0.46989420       0.38888889   1
## 1786            0.58412167       0.49229488 0.39314272       0.44444444   0
## 1787            0.48580618       0.45470157 0.37293920       0.38888889   0
## 1788            0.52411973       0.44672511 0.41862030       0.61111111   0
```

```
## 1789           0.42557868        0.30330986 0.35770514        0.50000000    0
## 1790           0.59649753        0.49952311 0.35854833        0.44444444    1
## 1791           0.40339814        0.35478297 0.31806036        0.33333333    0
## 1792           0.68841898        0.49468429 0.61731547        0.66666667    1
## 1793           0.59513564        0.54932824 0.48347456        0.55555556    0
## 1794           0.30364611        0.44344297 0.33766823        0.22222222    0
## 1795           0.40811551        0.60136338 0.50965198        0.55555556    0
## 1796           0.34957814        0.31673755 0.40603727        0.38888889    0
## 1797           0.55975730        0.60372002 0.65838356        0.66666667    1
## 1798           0.71702575        0.74384853 0.57541888        0.66666667    1
## 1799           0.41348873        0.52822525 0.37472424        0.55555556    1
## 1800           0.35839776        0.46264584 0.51194149        0.44444444    0
## 1801           0.81019904        0.62680108 0.64256730        0.66666667    1
## 1802           0.52331301        0.54973715 0.50235041        0.33333333    0
## 1803           0.51571210        0.43198031 0.42036091        0.38888889    0
## 1804           0.54648753        0.48986350 0.41899809        0.27777778    0
## 1805           0.71768875        0.62676746 0.55724975        0.72222222    1
## 1806           0.39251152        0.26935496 0.31237436        0.27777778    0
## 1807           0.58988242        0.55098345 0.55538290        0.50000000    1
## 1808           0.48958215        0.70152090 0.56182232        0.55555556    1
## 1809           0.28588136        0.36044503 0.39159559        0.44444444    1
## 1810           0.41294578        0.41485029 0.50259620        0.44444444    0
## 1811           0.52550541        0.63079469 0.54783344        0.55555556    1
## 1812           0.48016778        0.55047949 0.52278157        0.44444444    1
## 1813           0.32738736        0.22200642 0.24606144        0.22222222    0
## 1814           0.66336520        0.68073605 0.67245778        0.66666667    1
## 1815           0.39130264        0.38724961 0.48738833        0.44444444    1
## 1816           0.41497992        0.40544854 0.44710580        0.38888889    1
## 1817           0.57322210        0.48151890 0.36752725        0.55555556    0
## 1818           0.59511069        0.66871618 0.52539072        0.44444444    0
## 1819           0.50144142        0.41620056 0.39843966        0.50000000    0
## 1820           0.88761329        0.72082038 0.62720124        0.72222222    1
## 1821           0.62714379        0.57756790 0.65082031        0.55555556    1
## 1822           0.51544469        0.49900225 0.55505513        0.44444444    0
## 1823           0.55286615        0.50462106 0.45175649        0.44444444    0
## 1824           0.31956701        0.32061252 0.39373427        0.55555556    1
## 1825           0.72629594        0.68939811 0.52559919        0.38888889    0
## 1826           0.42627853        0.44651409 0.48222980        0.61111111    1
## 1827           0.48082959        0.52211867 0.61093287        0.55555556    1
## 1828           0.59620856        0.26722611 0.38380468        0.33333333    0
## 1829           0.48233749        0.54142109 0.49167135        0.38888889    1
## 1830           0.34675352        0.55677928 0.54033108        0.61111111    1
## 1831           0.50583519        0.47828069 0.56134570        0.44444444    1
## 1832           0.54692959        0.50963284 0.50463515        0.44444444    1
## 1833           0.42988314        0.50518057 0.44167999        0.44444444    1
## 1834           0.31901867        0.50076194 0.45554595        0.38888889    0
## 1835           0.59135375        0.52397457 0.49531695        0.50000000    1
## 1836           0.50610089        0.44570574 0.35141646        0.16666667    0
## 1837           0.63978962        0.68061501 0.64695913        0.55555556    0
## 1838           0.48133892        0.29522962 0.34458149        0.27777778    0
## 1839           0.67409747        0.49213553 0.60742101        0.77777778    0
## 1840           0.63386335        0.56037793 0.41117814        0.27777778    0
## 1841           0.54309035        0.57332143 0.59557570        0.72222222    0
## 1842           0.62874012        0.55710721 0.58596794        0.61111111    1
## 1843           0.45733881        0.43166134 0.44128894        0.44444444    0
## 1844           0.40862388        0.47665782 0.43447852        0.38888889    0
## 1845           0.54440157        0.39645017 0.51731249        0.61111111    1
## 1846           0.38430075        0.39078335 0.40379451        0.44444444    0
```

```
## 1847            0.44123051        0.42037559 0.42587558        0.44444444   1
## 1848            0.46323294        0.27949662 0.26834344        0.44444444   0
## 1849            0.51491034        0.53295522 0.34955302        0.38888889   0
## 1850            0.66162266        0.63840038 0.58718836        0.72222222   1
## 1851            0.68861199        0.78507055 0.70744438        0.77777778   1
## 1852            0.43027995        0.42183930 0.39544501        0.38888889   0
## 1853            0.89083367        0.67217169 0.53010060        0.55555556   1
## 1854            0.41711947        0.39923975 0.43269934        0.50000000   1
## 1855            0.24658843        0.23301955 0.28064842        0.33333333   0
## 1856            0.30634844        0.21487732 0.31577960        0.55555556   1
## 1857            0.59558653        0.65653743 0.57546099        0.72222222   1
## 1858            0.48246087        0.35827273 0.44989203        0.55555556   1
## 1859            0.50653631        0.48787555 0.43146670        0.61111111   1
## 1860            0.63112951        0.29875244 0.41990255        0.33333333   0
## 1861            0.50619802        0.40104073 0.41903313        0.38888889   1
## 1862            0.39747325        0.18581679 0.27032026        0.16666667   0
## 1863            0.28362391        0.44609042 0.32916582        0.33333333   0
## 1864            0.50772595        0.34349466 0.43431737        0.33333333   0
## 1865            0.40792742        0.58490149 0.49678467        0.44444444   0
## 1866            0.41694426        0.56729765 0.54905392        0.72222222   0
## 1867            0.36683543        0.43631247 0.40474148        0.33333333   0
## 1868            0.57613704        0.49569447 0.68304633        0.66666667   1
## 1869            0.62650967        0.73858035 0.65603685        0.61111111   1
## 1870            0.48115551        0.51749624 0.31965342        0.22222222   0
## 1871            0.59500266        0.62152785 0.57915304        0.66666667   1
## 1872            0.51307808        0.48627458 0.54728781        0.61111111   0
## 1873            0.70495676        0.71773042 0.68485552        0.66666667   1
## 1874            0.63590200        0.53577603 0.59423054        0.55555556   0
## 1875            0.50394236        0.54700090 0.53742347        0.61111111   1
## 1876            0.38465865        0.45520172 0.45739551        0.55555556   0
## 1877            0.48906439        0.58670109 0.59550647        0.66666667   1
## 1878            0.76650516        0.42469240 0.56302941        0.55555556   1
## 1879            0.49165892        0.30975184 0.37710221        0.33333333   0
## 1880            0.57135204        0.59432820 0.61093287        0.61111111   1
## 1881            0.56810839        0.72170023 0.66126150        0.72222222   1
## 1882            0.50289660        0.52840005 0.61293829        0.66666667   1
## 1883            0.52996909        0.54363873 0.61421010        0.55555556   1
## 1884            0.61720408        0.65777317 0.52000038        0.44444444   1
## 1885            0.42763358        0.37917957 0.36343191        0.38888889   0
## 1886            0.48240795        0.38569418 0.42074274        0.33333333   0
## 1887            0.39391883        0.55784670 0.52367001        0.44444444   0
## 1888            0.44908326        0.60904694 0.42218211        0.38888889   0
## 1889            0.42911279        0.50038107 0.44512081        0.61111111   0
## 1890            0.41022776        0.49512733 0.40125035        0.38888889   0
## 1891            0.54775560        0.63882811 0.51148500        0.44444444   0
## 1892            0.46811000        0.42092008 0.41824049        0.55555556   1
## 1893            0.53972251        0.47235142 0.43834103        0.38888889   1
## 1894            0.55100861        0.72528667 0.57836423        0.66666667   0
## 1895            0.55083172        0.47202936 0.47884414        0.50000000   1
## 1896            0.39148786        0.46007736 0.45198785        0.33333333   1
## 1897            0.54649268        0.62417200 0.53517087        0.55555556   1
## 1898            0.51890103        0.55237540 0.48784870        0.44444444   1
## 1899            0.69829377        0.53767613 0.58951366        0.66666667   1
## 1900            0.52556826        0.64586355 0.54944780        0.61111111   1
## 1901            0.52925038        0.54785016 0.59696900        0.61111111   0
## 1902            0.61298487        0.59065423 0.64090461        0.72222222   1
## 1903            0.41372962        0.47262568 0.49622747        0.55555556   0
## 1904            0.38842935        0.38118747 0.50019291        0.50000000   1
```

```
## 1905            0.49835269      0.52716430 0.56569851      0.77777778   1
## 1906            0.50918799      0.43826205 0.33959953      0.27777778   1
## 1907            0.64259740      0.55773980 0.56992641      0.66666667   0
## 1908            0.42852137      0.44964845 0.40447443      0.38888889   1
## 1909            0.55167672      0.49567851 0.50350134      0.44444444   0
## 1910            0.43857890      0.54488850 0.46528180      0.50000000   0
## 1911            0.40054940      0.28342354 0.35337759      0.50000000   0
## 1912            0.33749831      0.25575615 0.23280274      0.11111111   0
## 1913            0.46358796      0.52068233 0.60095970      0.44444444   0
## 1914            0.43933982      0.53720927 0.37459724      0.38888889   0
## 1915            0.66452329      0.56892434 0.47077491      0.33333333   1
## 1916            0.54337435      0.59791213 0.61407974      0.55555556   0
## 1917            0.48825382      0.41360226 0.38899862      0.44444444   1
## 1918            0.62958926      0.59072160 0.58238320      0.61111111   0
## 1919            0.62154343      0.66159537 0.67806605      0.72222222   1
## 1920            0.49482949      0.49452733 0.42651917      0.50000000   0
## 1921            0.53060579      0.56253101 0.60996358      0.66666667   1
## 1922            0.48754059      0.36179793 0.60329987      0.72222222   0
## 1923            0.39565592      0.35278389 0.28572126      0.33333333   0
## 1924            0.58587298      0.49667627 0.53090442      0.66666667   1
## 1925            0.25204002      0.49811030 0.40820438      0.27777778   0
## 1926            0.41410537      0.47328467 0.42289590      0.44444444   0
## 1927            0.47363128      0.46758985 0.44827968      0.66666667   0
## 1928            0.50784569      0.36918753 0.38718074      0.27777778   0
## 1929            0.56599324      0.66363780 0.71488549      0.72222222   0
## 1930            0.25394754      0.26012361 0.30761568      0.33333333   0
## 1931            0.73012671      0.77385496 0.58687215      0.38888889   1
## 1932            0.67897231      0.68917781 0.59395827      0.66666667   1
## 1933            0.53130058      0.57053733 0.54981874      0.55555556   1
## 1934            0.49159654      0.38324914 0.34697494      0.38888889   0
## 1935            0.58984183      0.59228971 0.51249141      0.38888889   1
## 1936            0.58207810      0.62595410 0.60377990      0.66666667   1
## 1937            0.36054608      0.41017871 0.26901865      0.11111111   0
## 1938            0.62012146      0.79172869 0.66917230      0.61111111   1
## 1939            0.51457423      0.58632777 0.42304234      0.33333333   0
## 1940            0.39015185      0.34422359 0.33848640      0.33333333   0
## 1941            0.35427948      0.44919967 0.41602017      0.38888889   0
## 1942            0.39729247      0.41720300 0.49912281      0.38888889   0
## 1943            0.38252375      0.53420227 0.65101432      0.55555556   0
## 1944            0.55851729      0.52752708 0.45507289      0.38888889   0
## 1945            0.43344225      0.27591393 0.25133691      0.27777778   0
## 1946            0.37621914      0.17261822 0.20372437      0.33333333   0
## 1947            0.51893616      0.44098518 0.44739137      0.55555556   1
## 1948            0.50198702      0.58053288 0.55039349      0.72222222   0
## 1949            0.33380626      0.32514217 0.48604196      0.61111111   0
## 1950            0.40129356      0.42772092 0.38567011      0.27777778   1
## 1951            0.65048620      0.54030304 0.59029293      0.61111111   1
## 1952            0.58175444      0.56273864 0.45248872      0.38888889   1
## 1953            0.55751832      0.39515670 0.38944989      0.27777778   0
## 1954            0.47793458      0.40467952 0.38517955      0.22222222   0
## 1955            0.58785037      0.54783533 0.47342741      0.50000000   1
## 1956            0.46597493      0.44144108 0.50230847      0.55555556   1
## 1957            0.56676204      0.49161172 0.61825327      0.77777778   1
## 1958            0.46315755      0.30252242 0.42368983      0.50000000   0
## 1959            0.47651983      0.50968775 0.44804627      0.50000000   0
## 1960            0.37636605      0.24023475 0.25720244      0.27777778   1
## 1961            0.67112498      0.73903424 0.64801805      0.55555556   1
## 1962            0.39990318      0.26682680 0.24759813      0.44444444   0
```

```
## 1963        0.38205173        0.27878042 0.48323587        0.61111111        0
## 1964        0.35450202        0.50470919 0.41237134        0.33333333        0
## 1965        0.30551742        0.41940497 0.45484195        0.66666667        1
## 1966        0.44068365        0.32574486 0.39708670        0.38888889        1
## 1967        0.47110377        0.46174527 0.35750706        0.33333333        0
## 1968        0.36695811        0.60275156 0.46817221        0.55555556        0
## 1969        0.44671170        0.24754730 0.20145059        0.33333333        0
## 1970        0.44660002        0.46705882 0.64900305        0.66666667        1
## 1971        0.49191677        0.51575084 0.38634154        0.33333333        0
## 1972        0.47780743        0.62857229 0.55480944        0.50000000        1
## 1973        0.41865847        0.61920730 0.56752808        0.44444444        1
## 1974        0.45801715        0.36810027 0.46735049        0.61111111        1
## 1975        0.48467105        0.62017220 0.52520200        0.44444444        0
## 1976        0.59546949        0.55396186 0.48103520        0.27777778        0
## 1977        0.63740350        0.57864484 0.46909461        0.38888889        1
## 1978        0.56128084        0.57839420 0.52412730        0.50000000        1
## 1979        0.49849644        0.51333061 0.44703373        0.50000000        0
## 1980        0.43016595        0.29701323 0.46786447        0.50000000        1
## 1981        0.56911526        0.66235839 0.68097213        0.72222222        0
## 1982        0.44660207        0.28781135 0.39621578        0.55555556        0
## 1983        0.17595343        0.50212157 0.51524255        0.61111111        0
## 1984        0.60832758        0.64561164 0.54105055        0.50000000        1
## 1985        0.50229713        0.43346343 0.42431740        0.38888889        0
## 1986        0.46294966        0.43687695 0.39972039        0.38888889        0
## 1987        0.65860422        0.46789754 0.47833435        0.61111111        0
## 1988        0.63721939        0.59991997 0.47823584        0.61111111        0
## 1989        0.64142362        0.61929010 0.53591151        0.50000000        0
## 1990        0.50701502        0.51128606 0.49554136        0.38888889        0
## 1991        0.48484298        0.33919959 0.40855570        0.55555556        0
## 1992        0.52163629        0.64352257 0.49700197        0.55555556        0
## 1993        0.44879528        0.49905944 0.58955756        0.66666667        1
## 1994        0.54089958        0.25535432 0.21379596        0.33333333        1
## 1995        0.28275782        0.32409228 0.31146054        0.27777778        0
## 1996        0.42988533        0.42742020 0.38034474        0.22222222        0
## 1997        0.44824216        0.51286554 0.52306714        0.66666667        0
## 1998        0.61787975        0.38439298 0.53747360        0.33333333        0
## 1999        0.74539794        0.54462906 0.42026612        0.50000000        0
## 2000        0.49609260        0.55820535 0.38840840        0.38888889        1
## 2001        0.50319407        0.56992007 0.48335392        0.38888889        0
## 2002        0.52558839        0.59388503 0.55276112        0.44444444        1
## 2003        0.52275150        0.37537495 0.42273014        0.55555556        0
## 2004        0.38039859        0.22859086 0.23800342        0.38888889        0
## 2005        0.39193028        0.36995677 0.51483058        0.61111111        0
## 2006        0.42632000        0.44527888 0.43230936        0.38888889        0
## 2007        0.64501736        0.62060587 0.66449993        0.66666667        1
## 2008        0.55888177        0.80933029 0.67877367        0.77777778        1
## 2009        0.56866122        0.52273395 0.47635528        0.55555556        1
## 2010        0.56410930        0.70836626 0.59068519        0.55555556        0
## 2011        0.65932158        0.88249380 0.76952659        0.77777778        1
## 2012        0.67179858        0.67829888 0.67168397        0.72222222        1
## 2013        0.53027286        0.46271420 0.53074629        0.50000000        1
## 2014        0.52705558        0.35681047 0.35987312        0.38888889        1
## 2015        0.54730210        0.58218580 0.66138178        0.72222222        1
## 2016        0.53364876        0.44643507 0.40168058        0.44444444        1
## 2017        0.42566274        0.49363107 0.42203659        0.50000000        1
## 2018        0.51201403        0.56232077 0.60400893        0.61111111        1
## 2019        0.24474492        0.14375206 0.28930686        0.27777778        1
## 2020        0.66692053        0.68836145 0.75867032        0.66666667        1
```

```
## 2021          0.30745368          0.26392311 0.36590067          0.44444444   1
## 2022          0.38587121          0.42356052 0.46910395          0.50000000   0
## 2023          0.70434188          0.64855185 0.63748942          0.72222222   0
## 2024          0.57875662          0.65864875 0.58597872          0.55555556   1
## 2025          0.39728361          0.25081306 0.20561372          0.33333333   0
## 2026          0.43727203          0.50664946 0.41131390          0.27777778   0
## 2027          0.38607549          0.39865567 0.39990044          0.44444444   0
## 2028          0.54128106          0.68062768 0.58214444          0.50000000   1
## 2029          0.48735006          0.65620825 0.45554088          0.66666667   1
## 2030          0.27409423          0.32007645 0.36822287          0.44444444   1
## 2031          0.49035839          0.44039962 0.30680073          0.27777778   0
## 2032          0.40592371          0.32199036 0.42089379          0.55555556   0
## 2033          0.58953243          0.46348456 0.53957197          0.55555556   0
## 2034          0.36108405          0.45303059 0.28536321          0.16666667   0
## 2035          0.51244010          0.60877565 0.69986637          0.66666667   1
## 2036          0.44519368          0.43557919 0.40810627          0.50000000   1
## 2037          0.42981088          0.54375824 0.55352321          0.61111111   0
## 2038          0.41691650          0.18712154 0.33404706          0.33333333   0
## 2039          0.67965478          0.74489088 0.63179214          0.66666667   1
## 2040          0.50987700          0.67483766 0.65265963          0.61111111   0
## 2041          0.46249050          0.40532539 0.46653370          0.44444444   0
## 2042          0.47717619          0.36860744 0.41285925          0.50000000   0
## 2043          0.42134050          0.38202310 0.32683367          0.50000000   0
## 2044          0.38805418          0.33540016 0.43183822          0.44444444   1
## 2045          0.46688556          0.53872493 0.52829059          0.50000000   1
## 2046          0.54236678          0.57563813 0.50338254          0.50000000   0
## 2047          0.41033744          0.22791852 0.46167912          0.38888889   0
## 2048          0.44196582          0.42566006 0.47383294          0.50000000   1
## 2049          0.30315292          0.43771522 0.29300032          0.27777778   0
## 2050          0.54460105          0.66011194 0.67877509          0.61111111   1
## 2051          0.46398482          0.62905699 0.54969727          0.55555556   1
## 2052          0.37233365          0.16854348 0.23454730          0.33333333   0
## 2053          0.62746037          0.53428720 0.46458896          0.61111111   0
## 2054          0.60752292          0.64920191 0.65609375          0.66666667   1
## 2055          0.46954374          0.55242002 0.46957968          0.38888889   1
## 2056          0.32292382          0.48034364 0.43020802          0.61111111   1
## 2057          0.55229682          0.54373745 0.61915571          0.66666667   1
## 2058          0.46159735          0.47242816 0.37621344          0.50000000   0
## 2059          0.71823212          0.66121576 0.63005737          0.55555556   1
## 2060          0.48504859          0.54546646 0.45791182          0.44444444   1
## 2061          0.68480581          0.42107197 0.65631135          0.66666667   1
## 2062          0.56977961          0.51164763 0.46263259          0.44444444   0
## 2063          0.55208862          0.44217524 0.54438769          0.66666667   1
## 2064          0.54148956          0.37865566 0.45420109          0.55555556   1
## 2065          0.61186154          0.70206558 0.61763126          0.55555556   0
## 2066          0.44931412          0.60559885 0.52997272          0.44444444   0
## 2067          0.32542025          0.43759603 0.43377036          0.61111111   0
## 2068          0.55104556          0.43790181 0.57716082          0.61111111   1
## 2069          0.69583226          0.54200686 0.44167999          0.44444444   0
## 2070          0.46170356          0.63640674 0.53164007          0.55555556   1
## 2071          0.54675411          0.58422778 0.54153862          0.38888889   1
## 2072          0.51836502          0.52101018 0.50985130          0.50000000   1
## 2073          0.47995522          0.51239007 0.36662295          0.38888889   0
## 2074          0.67300265          0.65103125 0.55268106          0.66666667   1
## 2075          0.39925213          0.37003298 0.35342014          0.38888889   1
## 2076          0.50839318          0.48075275 0.44125692          0.55555556   1
## 2077          0.60490315          0.41145782 0.52198610          0.44444444   1
## 2078          0.50305440          0.49930077 0.45201486          0.44444444   0
```

## 2079	0.55305934	0.43258954	0.42715246	0.38888889	0
## 2080	0.42722488	0.43184682	0.46989420	0.50000000	1
## 2081	0.39186930	0.27393018	0.34993527	0.38888889	0
## 2082	0.42121799	0.68957874	0.66594681	0.72222222	1
## 2083	0.72719327	0.43913244	0.44971823	0.44444444	1
## 2084	0.41577376	0.44685183	0.49317199	0.61111111	1
## 2085	0.41411614	0.34623546	0.40655118	0.50000000	1
## 2086	0.57845858	0.46692059	0.45426158	0.61111111	0
## 2087	0.30863457	0.40892450	0.51381490	0.72222222	1
## 2088	0.50243949	0.41985655	0.46338323	0.50000000	1
## 2089	0.39770985	0.32528970	0.34265895	0.44444444	0
## 2090	0.29487361	0.14497492	0.32469423	0.44444444	0
## 2091	0.53571355	0.27741284	0.35673799	0.38888889	0
## 2092	0.53085751	0.72637766	0.61337674	0.50000000	1
## 2093	0.55766482	0.47119404	0.47032336	0.66666667	0
## 2094	0.34598853	0.26313884	0.36188342	0.44444444	1
## 2095	0.43089307	0.30295283	0.36399625	0.38888889	0
## 2096	0.43225728	0.31224480	0.34194416	0.44444444	1
## 2097	0.45272358	0.56250089	0.59360267	0.61111111	1
## 2098	0.50593158	0.55196533	0.53580352	0.38888889	0
## 2099	0.56448314	0.45198096	0.42376279	0.33333333	1
## 2100	0.45411408	0.44204946	0.49796967	0.44444444	0
## 2101	0.55796516	0.39530548	0.50230847	0.61111111	1
## 2102	0.29032089	0.39224474	0.44222140	0.44444444	1
## 2103	0.59677636	0.52752979	0.49556390	0.50000000	1
## 2104	0.49781428	0.55023086	0.47014326	0.50000000	0
## 2105	0.67660256	0.84965191	0.58244261	0.50000000	0
## 2106	0.31129609	0.41474391	0.49954180	0.55555556	1
## 2107	0.50245844	0.43324324	0.45358177	0.50000000	1
## 2108	0.49040558	0.46113047	0.51684321	0.50000000	0
## 2109	0.65322986	0.57003952	0.57906616	0.72222222	1
## 2110	0.39665193	0.35837267	0.43607915	0.44444444	0
## 2111	0.43439096	0.59478059	0.56580730	0.66666667	1
## 2112	0.55083276	0.41094817	0.40059354	0.44444444	1
## 2113	0.53905222	0.49286158	0.52709966	0.50000000	0
## 2114	0.49361784	0.51010376	0.44723906	0.50000000	0
## 2115	0.55231086	0.46123368	0.47664632	0.44444444	0
## 2116	0.57292855	0.49544823	0.42574056	0.50000000	1
## 2117	0.54456210	0.68158692	0.56795339	0.61111111	0
## 2118	0.51030231	0.46315378	0.39657666	0.22222222	1
## 2119	0.42086034	0.49315011	0.46772388	0.55555556	1
## 2120	0.51476815	0.84227871	0.57824661	0.61111111	0
## 2121	0.48384645	0.53493141	0.49748244	0.38888889	1
## 2122	0.57024517	0.59466783	0.54819282	0.61111111	1
## 2123	0.49594657	0.49855063	0.50874903	0.66666667	0
## 2124	0.53570191	0.48796315	0.36539519	0.50000000	1
## 2125	0.46660012	0.28211686	0.37957660	0.33333333	1
## 2126	0.53265559	0.65757459	0.61184554	0.66666667	1
## 2127	0.24799954	0.18164762	0.30093776	0.33333333	0
## 2128	0.63694657	0.65740603	0.60033816	0.55555556	0
## 2129	0.60372114	0.60511066	0.59321162	0.66666667	1
## 2130	0.40461982	0.30092618	0.24821536	0.22222222	0
## 2131	0.34237137	0.39518781	0.43528959	0.33333333	0
## 2132	0.63516739	0.52641389	0.54445855	0.55555556	0
## 2133	0.48504099	0.19392208	0.32684790	0.38888889	0
## 2134	0.43533696	0.44851586	0.36807769	0.44444444	0
## 2135	0.55605347	0.47866922	0.48159325	0.50000000	0
## 2136	0.64515656	0.72715767	0.60558682	0.61111111	0

```
## 2137          0.47669044          0.57973363 0.69352559          0.88888889   1
## 2138          0.41103505          0.48847260 0.44410100          0.66666667   1
## 2139          0.35010197          0.27758019 0.35791309          0.44444444   0
## 2140          0.65561729          0.60631442 0.54296178          0.66666667   1
## 2141          0.51607296          0.49888846 0.63211771          0.66666667   1
## 2142          0.55654404          0.46889989 0.34011928          0.44444444   0
## 2143          0.55602468          0.76823776 0.69865894          0.72222222   1
## 2144          0.22706416          0.23150875 0.29810470          0.38888889   0
## 2145          0.61697521          0.63139711 0.62381183          0.66666667   1
## 2146          0.50363825          0.38486552 0.34813022          0.44444444   0
## 2147          0.58680440          0.60519672 0.55352321          0.61111111   0
## 2148          0.59670646          0.54980895 0.55894257          0.44444444   1
## 2149          0.55419211          0.71854874 0.67096834          0.72222222   0
## 2150          0.39460141          0.50971897 0.47573738          0.61111111   0
## 2151          0.45140498          0.41386430 0.53456986          0.55555556   1
## 2152          0.51506573          0.54558131 0.51262392          0.61111111   0
## 2153          0.50639883          0.38026138 0.37300984          0.44444444   0
## 2154          0.61690997          0.63280501 0.65849317          0.66666667   1
## 2155          0.43034339          0.25687175 0.29940319          0.44444444   0
## 2156          0.53355263          0.56100324 0.58093454          0.55555556   1
## 2157          0.34931621          0.32301453 0.37289196          0.33333333   1
## 2158          0.54734315          0.62849040 0.57257729          0.61111111   1
## 2159          0.43442226          0.44872820 0.41608738          0.38888889   0
## 2160          0.50080609          0.38709200 0.42170625          0.44444444   0
## 2161          0.53456022          0.48099579 0.39946177          0.33333333   1
## 2162          0.25357306          0.36292728 0.39434532          0.50000000   0
## 2163          0.46837076          0.48840509 0.53234832          0.55555556   0
## 2164          0.62536978          0.62578135 0.54128551          0.55555556   1
## 2165          0.20145506          0.47603760 0.49589520          0.55555556   1
## 2166          0.49980450          0.58404510 0.45937648          0.55555556   0
## 2167          0.67886595          0.63906759 0.57291851          0.61111111   1
## 2168          0.48147795          0.46151692 0.53158492          0.50000000   1
## 2169          0.55040605          0.64909771 0.50191483          0.50000000   1
## 2170          0.37808214          0.34904759 0.37727037          0.38888889   0
## 2171          0.51533926          0.43925624 0.60149476          0.66666667   1
## 2172          0.42855051          0.46845669 0.36822287          0.44444444   0
## 2173          0.52062840          0.71309340 0.51178977          0.50000000   1
## 2174          0.56389457          0.55365520 0.51678009          0.61111111   1
## 2175          0.54998759          0.62560975 0.53361733          0.44444444   0
## 2176          0.48222797          0.49194865 0.50358141          0.27777778   1
## 2177          0.57323566          0.51100931 0.32014184          0.38888889   0
## 2178          0.60969091          0.43787129 0.36723643          0.27777778   0
## 2179          0.57418734          0.73524154 0.79434798          0.88888889   1
## 2180          0.61104922          0.44345139 0.44650293          0.50000000   0
## 2181          0.86105151          0.70758147 0.60891659          0.61111111   1
## 2182          0.44658745          0.53894545 0.66095349          0.66666667   1
## 2183          0.62939300          0.60582043 0.58327055          0.61111111   0
## 2184          0.35106362          0.23135953 0.30228519          0.38888889   0
## 2185          0.65192115          0.59831976 0.46144576          0.61111111   1
## 2186          0.53840749          0.56882649 0.56441207          0.66666667   1
## 2187          0.48182602          0.38847822 0.38178272          0.50000000   0
## 2188          0.48895121          0.38012739 0.35221968          0.38888889   0
## 2189          0.54703453          0.37959359 0.44952275          0.44444444   1
## 2190          0.62116675          0.71069702 0.69082792          0.61111111   1
## 2191          0.68551072          0.66220171 0.55924147          0.38888889   1
## 2192          0.39357344          0.41225670 0.27664778          0.44444444   0
## 2193          0.45723693          0.67811561 0.69738868          0.83333333   1
## 2194          0.57372060          0.70823446 0.71223301          0.72222222   1
```

```
## 2195          0.40529843          0.44740294 0.51981166          0.50000000  1
## 2196          0.38894362          0.37524843 0.44172242          0.50000000  1
## 2197          0.54586414          0.59658833 0.48081823          0.44444444  1
## 2198          0.49580905          0.53195577 0.52168603          0.50000000  1
## 2199          0.39381314          0.44785285 0.31190574          0.38888889  0
## 2200          0.48399870          0.56044319 0.54802218          0.61111111  1
## 2201          0.40663393          0.33587682 0.38130830          0.44444444  0
## 2202          0.55257446          0.54516707 0.43146670          0.50000000  0
## 2203          0.42062196          0.44148217 0.41674220          0.38888889  0
## 2204          0.61864013          0.51495252 0.46533652          0.33333333  1
## 2205          0.57788471          0.65953341 0.63556227          0.61111111  1
## 2206          0.59482492          0.50954611 0.53104824          0.55555556  1
## 2207          0.51150448          0.39056314 0.41894543          0.44444444  0
## 2208          0.48516652          0.53086804 0.54727704          0.50000000  0
## 2209          0.54578594          0.65062724 0.58316166          0.66666667  1
## 2210          0.51951303          0.47258697 0.50166109          0.55555556  1
## 2211          0.52146853          0.54798274 0.52359389          0.50000000  1
## 2212          0.52377619          0.53137756 0.53072332          0.55555556  0
## 2213          0.49734385          0.49673791 0.49482510          0.61111111  1
## 2214          0.58488607          0.55547842 0.62807253          0.72222222  1
## 2215          0.35990902          0.51828015 0.42040230          0.50000000  0
## 2216          0.79447829          0.72969659 0.70368633          0.66666667  1
## 2217          0.47691296          0.45319735 0.42431740          0.38888889  0
## 2218          0.70446970          0.54460652 0.72716304          0.72222222  0
## 2219          0.50229948          0.55658726 0.57589083          0.44444444  0
## 2220          0.47747279          0.52538980 0.48936598          0.44444444  0
## 2221          0.53625257          0.53544475 0.63395850          0.50000000  0
## 2222          0.63863007          0.57183053 0.59926007          0.55555556  1
## 2223          0.44281323          0.45422145 0.50494000          0.44444444  1
## 2224          0.41155379          0.36139808 0.34037759          0.44444444  0
## 2225          0.51554858          0.52403543 0.37760375          0.38888889  0
## 2226          0.51123247          0.51579255 0.50053623          0.55555556  1
## 2227          0.58304536          0.54227087 0.60662462          0.66666667  1
## 2228          0.61249910          0.57948782 0.52259684          0.55555556  0
## 2229          0.57763753          0.56652510 0.53525991          0.55555556  0
## 2230          0.56028939          0.53443771 0.52007472          0.50000000  1
## 2231          0.56848835          0.50623790 0.52245783          0.55555556  1
## 2232          0.47651614          0.47774152 0.48508647          0.38888889  1
## 2233          0.40721093          0.48029858 0.50494000          0.72222222  0
## 2234          0.75212047          0.49845816 0.45976602          0.38888889  0
## 2235          0.31386021          0.49684477 0.55670716          0.77777778  0
## 2236          0.68326448          0.80202531 0.61155184          0.50000000  0
## 2237          0.47497634          0.52289870 0.49977789          0.61111111  1
## 2238          0.45539097          0.36677003 0.39140081          0.38888889  0
## 2239          0.51868547          0.47207906 0.43288739          0.38888889  1
## 2240          0.43970138          0.30518425 0.44167999          0.44444444  0
## 2241          0.48352415          0.39621328 0.47039505          0.55555556  0
## 2242          0.59467196          0.62493083 0.45622624          0.61111111  1
## 2243          0.43918092          0.33815760 0.35507571          0.33333333  0
## 2244          0.44674028          0.41078104 0.51113036          0.61111111  1
## 2245          0.46269379          0.34183727 0.41334520          0.50000000  1
## 2246          0.59130018          0.41620910 0.46871039          0.27777778  0
## 2247          0.47888987          0.35663609 0.41668838          0.33333333  0
## 2248          0.61652831          0.67444559 0.67748087          0.77777778  1
## 2249          0.65599340          0.51253904 0.47254060          0.44444444  0
## 2250          0.58787434          0.65291841 0.66025232          0.72222222  1
## 2251          0.59127293          0.45976453 0.45672757          0.72222222  1
## 2252          0.34045209          0.34525063 0.37519158          0.55555556  1
```

```
## 2253          0.38277660          0.29817134 0.37594467          0.27777778   0
## 2254          0.56623146          0.56239092 0.66334242          0.61111111   1
## 2255          0.57124908          0.48121299 0.53377722          0.33333333   0
## 2256          0.53953758          0.50256927 0.39711531          0.50000000   0
## 2257          0.50394475          0.62573120 0.58154532          0.55555556   1
## 2258          0.56099467          0.65852347 0.54981874          0.50000000   0
## 2259          0.54594963          0.39208187 0.45548959          0.50000000   0
## 2260          0.41965727          0.39505551 0.41026462          0.38888889   1
## 2261          0.59417473          0.72164387 0.61661953          0.38888889   1
## 2262          0.15422666          0.29168196 0.26241732          0.22222222   0
## 2263          0.47109861          0.45383985 0.47614984          0.55555556   1
## 2264          0.56324275          0.64481926 0.50861947          0.44444444   1
## 2265          0.57472585          0.53031416 0.53486759          0.38888889   0
## 2266          0.57038393          0.57751650 0.45460799          0.55555556   1
## 2267          0.33017871          0.36401497 0.43481793          0.55555556   0
## 2268          0.44914215          0.34012731 0.42287051          0.44444444   1
## 2269          0.59276446          0.40260846 0.55040870          0.33333333   1
## 2270          0.68666026          0.63447584 0.63749145          0.55555556   1
## 2271          0.37334045          0.18417486 0.40452141          0.38888889   0
## 2272          0.41650568          0.40239835 0.46115997          0.33333333   1
## 2273          0.54822148          0.49990216 0.65635926          0.61111111   1
## 2274          0.57141302          0.54420933 0.54548947          0.72222222   1
## 2275          0.48877986          0.60083318 0.57189943          0.44444444   1
## 2276          0.38410779          0.38267661 0.39672609          0.55555556   0
## 2277          0.60309088          0.54879660 0.54538307          0.72222222   1
## 2278          0.47502026          0.47708541 0.45250757          0.44444444   1
## 2279          0.58059215          0.63181898 0.65792400          0.72222222   0
## 2280          0.54415364          0.55769894 0.56173215          0.50000000   0
## 2281          0.50818412          0.52589603 0.46721321          0.66666667   0
## 2282          0.56729501          0.59041513 0.64617275          0.61111111   0
## 2283          0.58744150          0.51298786 0.46228614          0.38888889   1
## 2284          0.67803577          0.67978971 0.60478313          0.66666667   0
## 2285          0.51215658          0.54025797 0.50712361          0.50000000   0
## 2286          0.42061806          0.39057193 0.40758686          0.44444444   1
## 2287          0.56316191          0.48990524 0.58745149          0.61111111   1
## 2288          0.34078432          0.30101044 0.54800395          0.50000000   1
## 2289          0.48149553          0.47463078 0.48671131          0.44444444   0
## 2290          0.65193768          0.56829972 0.50372057          0.33333333   1
## 2291          0.51248821          0.54321269 0.47849613          0.38888889   0
## 2292          0.46194087          0.47350940 0.42464314          0.50000000   1
## 2293          0.54981798          0.50355248 0.53735125          0.61111111   0
## 2294          0.50536408          0.54349650 0.41925331          0.38888889   1
## 2295          0.26733431          0.40489862 0.39158739          0.38888889   1
## 2296          0.37671967          0.49498091 0.62105089          0.88888889   0
## 2297          0.58049875          0.22430773 0.41776067          0.44444444   0
## 2298          0.40503502          0.32516633 0.30154315          0.11111111   0
## 2299          0.48187953          0.50595607 0.55819212          0.66666667   1
## 2300          0.49088350          0.57819059 0.65668343          0.66666667   0
## 2301          0.43034780          0.36973524 0.31683954          0.55555556   0
## 2302          0.49668553          0.44427974 0.41421019          0.44444444   0
## 2303          0.29165233          0.20611668 0.28577257          0.44444444   0
## 2304          0.41278740          0.34485018 0.33786242          0.44444444   0
## 2305          0.43503786          0.24265732 0.36509932          0.50000000   0
## 2306          0.48827919          0.42079480 0.40519582          0.33333333   1
## 2307          0.60969216          0.55063521 0.50337816          0.66666667   0
## 2308          0.59369714          0.54485146 0.56123445          0.44444444   1
## 2309          0.34246185          0.34298415 0.30087441          0.27777778   0
## 2310          0.39586967          0.31781072 0.42111902          0.50000000   1
```

```
## 2311          0.39703380          0.42274277 0.51803940          0.61111111   1
## 2312          0.32733122          0.55274883 0.30384537          0.27777778   0
## 2313          0.43876840          0.35715488 0.37407705          0.44444444   0
## 2314          0.33612072          0.30081041 0.29693465          0.38888889   0
## 2315          0.53180213          0.53808660 0.53867358          0.55555556   1
## 2316          0.56046506          0.71112364 0.55269401          0.66666667   1
## 2317          0.59781733          0.57869683 0.57647085          0.50000000   0
## 2318          0.62850298          0.57898168 0.64076084          0.66666667   1
## 2319          0.29816943          0.39865772 0.31368652          0.22222222   0
## 2320          0.50490738          0.38922003 0.29236973          0.22222222   0
## 2321          0.48083380          0.42238153 0.43680646          0.38888889   0
## 2322          0.43920738          0.31419782 0.41631287          0.38888889   1
## 2323          0.46421572          0.48930549 0.44298214          0.38888889   0
## 2324          0.57793919          0.51400056 0.45338779          0.38888889   0
## 2325          0.66884964          0.59887994 0.64095172          0.72222222   1
## 2326          0.46862980          0.60088145 0.51148112          0.50000000   0
## 2327          0.52147430          0.34620327 0.23805771          0.33333333   1
## 2328          0.50225474          0.50434977 0.47635245          0.61111111   1
## 2329          0.48305710          0.47503006 0.51772672          0.44444444   0
## 2330          0.56342056          0.65158939 0.61032717          0.55555556   1
## 2331          0.47514610          0.36195137 0.52003862          0.44444444   1
## 2332          0.38512566          0.41831943 0.43811721          0.38888889   0
## 2333          0.68975148          0.68859005 0.55781280          0.44444444   1
## 2334          0.43056788          0.42119303 0.45076507          0.50000000   0
## 2335          0.60881068          0.56925959 0.49817519          0.50000000   1
## 2336          0.49826073          0.46439415 0.50710425          0.50000000   1
## 2337          0.51010313          0.47976176 0.55847907          0.50000000   1
## 2338          0.65474944          0.57159539 0.60729241          0.72222222   1
## 2339          0.40540345          0.27591540 0.44231989          0.38888889   1
## 2340          0.31149901          0.25526102 0.37934341          0.38888889   1
## 2341          0.50677541          0.49225154 0.47905013          0.38888889   1
## 2342          0.49147315          0.45360893 0.46403590          0.55555556   1
## 2343          0.44886453          0.46843107 0.50733493          0.50000000   0
## 2344          0.59843626          0.59647193 0.49320189          0.61111111   0
## 2345          0.33911233          0.53286848 0.44736315          0.55555556   0
## 2346          0.34902175          0.29939745 0.23373963          0.33333333   0
## 2347          0.75490404          0.76411903 0.67427832          0.55555556   1
## 2348          0.62231897          0.78192486 0.54066238          0.33333333   0
## 2349          0.50896152          0.57202282 0.55304208          0.61111111   0
## 2350          0.60813341          0.83804169 0.88819664          0.77777778   1
## 2351          0.45622805          0.47762483 0.51823324          0.44444444   0
## 2352          0.41390563          0.43344169 0.40531240          0.38888889   0
## 2353          0.65892828          0.71318118 0.62512514          0.55555556   1
## 2354          0.56323827          0.60656008 0.58753146          0.61111111   1
## 2355          0.53557269          0.58904971 0.59917400          0.61111111   1
## 2356          0.53278898          0.49243321 0.46226804          0.44444444   1
## 2357          0.45722080          0.28945568 0.41859143          0.44444444   0
## 2358          0.43288584          0.49353393 0.51292681          0.38888889   0
## 2359          0.47682208          0.55718951 0.51844988          0.66666667   0
## 2360          0.55696375          0.53168447 0.54315470          0.55555556   0
## 2361          0.45184783          0.45312883 0.36635901          0.55555556   0
## 2362          0.60218525          0.58696115 0.54613819          0.50000000   1
## 2363          0.64345773          0.52639573 0.43167365          0.44444444   0
## 2364          0.29180799          0.20996488 0.32001031          0.55555556   0
## 2365          0.31367436          0.29058643 0.20835345          0.22222222   0
## 2366          0.50405149          0.59900612 0.68180687          0.61111111   1
## 2367          0.47442539          0.54265015 0.52336400          0.50000000   0
## 2368          0.43040764          0.37078256 0.37201572          0.44444444   1
```

```
## 2369          0.53522523          0.67399810 0.61063452          0.66666667   1
## 2370          0.59838116          0.57168384 0.52017972          0.72222222   1
## 2371          0.47901722          0.41803699 0.35486703          0.50000000   0
## 2372          0.63931577          0.55866941 0.52118691          0.38888889   1
## 2373          0.53592905          0.47448036 0.39437254          0.22222222   0
## 2374          0.54155973          0.39291393 0.34630271          0.38888889   0
## 2375          0.45717715          0.58579944 0.51367866          0.50000000   0
## 2376          0.55432596          0.46993543 0.41507503          0.61111111   0
## 2377          0.51039244          0.46103329 0.54466399          0.72222222   1
## 2378          0.50370725          0.61148812 0.62652560          0.61111111   1
## 2379          0.39949732          0.46185769 0.41025470          0.33333333   0
## 2380          0.54834409          0.39657639 0.46557533          0.55555556   1
## 2381          0.52681474          0.51683696 0.46456532          0.61111111   0
## 2382          0.46145614          0.44329185 0.37114446          0.50000000   0
## 2383          0.46141522          0.36650029 0.37323614          0.38888889   0
## 2384          0.52962530          0.61746045 0.62905159          0.55555556   0
## 2385          0.59051749          0.73326987 0.55429569          0.38888889   1
## 2386          0.54976222          0.51705841 0.45492158          0.61111111   1
## 2387          0.51234227          0.33691082 0.40984857          0.44444444   0
## 2388          0.55728190          0.60250361 0.52323156          0.66666667   0
## 2389          0.42852737          0.46423853 0.48546675          0.55555556   0
## 2390          0.55230611          0.50272885 0.59813019          0.66666667   1
## 2391          0.46718989          0.45932300 0.41274233          0.44444444   0
## 2392          0.41847026          0.32260260 0.40734825          0.44444444   1
## 2393          0.51224817          0.44916267 0.44666924          0.50000000   1
## 2394          0.60111692          0.56769345 0.49678581          0.55555556   1
## 2395          0.33906882          0.39774472 0.58011147          0.66666667   1
## 2396          0.64968587          0.68481641 0.67829647          0.72222222   1
## 2397          0.29651001          0.31211845 0.25767175          0.22222222   0
## 2398          0.41006511          0.24389710 0.37133923          0.50000000   0
## 2399          0.46879402          0.36569763 0.39065833          0.66666667   0
## 2400          0.45531233          0.64212601 0.51764133          0.44444444   1
## 2401          0.40432394          0.38000026 0.40532706          0.33333333   0
## 2402          0.40364880          0.48677730 0.43834103          0.33333333   1
## 2403          0.60837902          0.60108956 0.55854359          0.55555556   1
## 2404          0.61888796          0.60437539 0.67515678          0.66666667   1
## 2405          0.57607264          0.46632885 0.45506222          0.61111111   1
## 2406          0.65258300          0.71304494 0.60432975          0.50000000   1
## 2407          0.45799395          0.54489451 0.54221979          0.55555556   1
## 2408          0.60290558          0.61621762 0.55616359          0.50000000   1
## 2409          0.56992400          0.48437257 0.42003788          0.38888889   1
## 2410          0.43504991          0.29817430 0.46093466          0.55555556   1
## 2411          0.66017971          0.54865556 0.47482754          0.27777778   0
## 2412          0.39882330          0.29047992 0.39038142          0.38888889   1
## 2413          0.54440543          0.69461806 0.64296691          0.55555556   1
## 2414          0.55827759          0.55806565 0.54272754          0.55555556   1
## 2415          0.54129052          0.52108851 0.52482695          0.44444444   1
## 2416          0.38181142          0.25866614 0.34169095          0.33333333   0
## 2417          0.58405257          0.56517873 0.62730732          0.66666667   0
## 2418          0.48849337          0.52056444 0.53734403          0.61111111   1
## 2419          0.44487821          0.55936952 0.51884707          0.55555556   1
## 2420          0.51722658          0.51065449 0.49351229          0.55555556   1
## 2421          0.37042832          0.34739540 0.39931085          0.55555556   0
## 2422          0.46928646          0.39378777 0.41428485          0.44444444   0
## 2423          0.50487968          0.46824218 0.38575241          0.38888889   0
## 2424          0.54417799          0.46942944 0.51782962          0.44444444   0
## 2425          0.66682005          0.80290189 0.74461154          0.72222222   1
## 2426          0.53663145          0.59911884 0.48762442          0.50000000   0
```

## 2427	0.52713726	0.52201593 0.60615536	0.55555556	1
## 2428	0.48940945	0.47192990 0.31299474	0.27777778	0
## 2429	0.67952600	0.56117185 0.46095757	0.38888889	0
## 2430	0.59283288	0.53016684 0.47377428	0.38888889	1
## 2431	0.51773226	0.37169155 0.43931489	0.55555556	0
## 2432	0.40369753	0.49051486 0.52925348	0.50000000	1
## 2433	0.44554548	0.40640484 0.44581972	0.55555556	0
## 2434	0.35490803	0.25102910 0.31125186	0.38888889	0
## 2435	0.47355822	0.48157551 0.46058071	0.50000000	0
## 2436	0.55986317	0.51271600 0.54033108	0.44444444	1
## 2437	0.57256986	0.59155235 0.63049751	0.55555556	1
## 2438	0.47411262	0.30912141 0.39602224	0.72222222	0
## 2439	0.41121333	0.48012688 0.45566144	0.50000000	0
## 2440	0.43612325	0.30965100 0.22554102	0.27777778	0
## 2441	0.47549287	0.32970108 0.48924162	0.61111111	0
## 2442	0.60059957	0.63320143 0.60845226	0.55555556	0
## 2443	0.43388040	0.44776096 0.37794100	0.38888889	0
## 2444	0.43818584	0.66157254 0.49556390	0.38888889	1
## 2445	0.50582857	0.49120375 0.50656763	0.61111111	0
## 2446	0.47692201	0.46452327 0.53680483	0.50000000	1
## 2447	0.43157602	0.30596076 0.29589973	0.38888889	1
## 2448	0.43464589	0.45480180 0.53825941	0.55555556	1
## 2449	0.50617211	0.44296673 0.43956931	0.50000000	1
## 2450	0.38034683	0.34490610 0.30275203	0.33333333	0
## 2451	0.35350998	0.55157823 0.61175154	0.61111111	1
## 2452	0.51061340	0.41009822 0.36845895	0.38888889	0
## 2453	0.50796376	0.56012981 0.66563227	0.61111111	1
## 2454	0.59382060	0.59340129 0.65754772	0.66666667	1
## 2455	0.54413618	0.57187687 0.58636826	0.55555556	1
## 2456	0.57399023	0.51977934 0.55283578	0.66666667	1
## 2457	0.27610033	0.21283583 0.33592601	0.38888889	1
## 2458	0.41529987	0.36977846 0.37867058	0.22222222	0
## 2459	0.51043334	0.64053864 0.70857119	0.72222222	1
## 2460	0.52960374	0.55668313 0.51247483	0.55555556	1
## 2461	0.36106674	0.21524702 0.28633048	0.27777778	0
## 2462	0.52036713	0.45172211 0.39674151	0.22222222	0
## 2463	0.39946650	0.29877460 0.31565918	0.38888889	1
## 2464	0.43097165	0.37469083 0.32069943	0.55555556	0
## 2465	0.44717431	0.19299121 0.29974079	0.27777778	1
## 2466	0.55822272	0.68852434 0.54512858	0.44444444	0
## 2467	0.49704451	0.51724169 0.64966938	0.55555556	1
## 2468	0.72613718	0.78111963 0.74634677	0.72222222	0
## 2469	0.62808502	0.60077258 0.64952044	0.66666667	1
## 2470	0.43397678	0.56612200 0.35776079	0.38888889	0
## 2471	0.60473032	0.57712812 0.55687411	0.55555556	1
## 2472	0.55240541	0.51491332 0.52598461	0.44444444	1
## 2473	0.55954461	0.54951961 0.61216810	0.83333333	1
## 2474	0.45981460	0.39920981 0.60906351	0.72222222	1
## 2475	0.74924111	0.68711439 0.55459358	0.44444444	0
## 2476	0.51666123	0.70392025 0.58979626	0.61111111	1
## 2477	0.40595795	0.45119356 0.25839183	0.05555556	0
## 2478	0.71705115	0.77900686 0.68879018	0.61111111	1
## 2479	0.37581914	0.47248809 0.48158056	0.61111111	1
## 2480	0.45224619	0.46505620 0.41115618	0.50000000	0
## 2481	0.50390097	0.34765597 0.31788042	0.50000000	0
## 2482	0.57419917	0.44630065 0.39218364	0.33333333	0
## 2483	0.40692152	0.46120716 0.59275855	0.50000000	0
## 2484	0.51202083	0.69867676 0.69635839	0.72222222	1

```
## 2485          0.35148335      0.33423312 0.22357582      0.27777778   0
## 2486          0.43710495      0.44269949 0.45701380      0.50000000   0
## 2487          0.48538277      0.44123914 0.47719438      0.44444444   1
## 2488          0.56004490      0.64185975 0.60957696      0.61111111   1
## 2489          0.49501175      0.50579441 0.50586222      0.44444444   0
## 2490          0.54392984      0.59919369 0.59663809      0.72222222   0
## 2491          0.48212687      0.66163514 0.46250098      0.38888889   0
## 2492          0.60881441      0.62014569 0.63544789      0.66666667   1
## 2493          0.43429398      0.52829119 0.48924874      0.50000000   1
## 2494          0.35844174      0.33001096 0.37810484      0.27777778   1
## 2495          0.43257778      0.37933082 0.35916726      0.44444444   0
## 2496          0.34232244      0.23164515 0.34528907      0.33333333   0
## 2497          0.45024886      0.44742836 0.47112681      0.55555556   1
## 2498          0.58737982      0.47878842 0.32378584      0.27777778   0
## 2499          0.62450034      0.69088864 0.67940618      0.61111111   1
## 2500          0.57353161      0.37920281 0.39451598      0.55555556   0
## 2501          0.38837818      0.33144692 0.37654210      0.33333333   0
## 2502          0.49844793      0.51507581 0.56023799      0.66666667   1
## 2503          0.85622439      0.73635932 0.67390467      0.72222222   1
## 2504          0.35625841      0.44399506 0.26497207      0.27777778   0
## 2505          0.54296183      0.47024398 0.52439912      0.50000000   0
## 2506          0.61337393      0.61709536 0.55099096      0.50000000   0
## 2507          0.55355923      0.56980331 0.69777823      0.72222222   1
## 2508          0.49525618      0.54994374 0.65120381      0.61111111   1
## 2509          0.55023925      0.49025465 0.51868476      0.50000000   1
## 2510          0.61182203      0.54545287 0.51209495      0.44444444   1
## 2511          0.63229889      0.59504692 0.63403583      0.55555556   1
## 2512          0.44427129      0.33705709 0.31450661      0.33333333   0
## 2513          0.56060770      0.46736334 0.50853133      0.44444444   1
## 2514          0.41385315      0.37325222 0.33393107      0.50000000   0
## 2515          0.47450410      0.34042933 0.38309888      0.50000000   1
## 2516          0.52537789      0.46409446 0.44693117      0.55555556   1
## 2517          0.60857390      0.57788542 0.52682917      0.50000000   1
## 2518          0.49772330      0.50957565 0.44256058      0.44444444   0
## 2519          0.59789976      0.61382672 0.66244711      0.55555556   1
## 2520          0.64396061      0.61269447 0.57932190      0.61111111   1
## 2521          0.53178453      0.45472793 0.40915343      0.44444444   0
## 2522          0.48310277      0.54244844 0.55491429      0.66666667   1
## 2523          0.61439437      0.56329294 0.52117422      0.50000000   0
## 2524          0.51898127      0.35537588 0.40930873      0.38888889   0
## 2525          0.62426205      0.67246024 0.59989168      0.55555556   0
## 2526          0.45687663      0.47562697 0.36177649      0.33333333   0
## 2527          0.48272012      0.56254210 0.55828558      0.44444444   1
## 2528          0.48669177      0.41680338 0.39410308      0.55555556   0
## 2529          0.34597742      0.31333447 0.41441181      0.44444444   0
## 2530          0.55975755      0.63636919 0.57418687      0.55555556   1
## 2531          0.50039135      0.39124440 0.50344004      0.61111111   0
## 2532          0.56709544      0.52192934 0.45319013      0.44444444   0
## 2533          0.60220321      0.54233431 0.36385236      0.50000000   0
## 2534          0.48231147      0.67161392 0.55002597      0.44444444   1
## 2535          0.54990279      0.45451178 0.41131940      0.50000000   0
## 2536          0.48941830      0.61320134 0.67765892      0.72222222   1
## 2537          0.47440848      0.50387128 0.33316378      0.38888889   0
## 2538          0.39618336      0.29613251 0.33076501      0.38888889   0
## 2539          0.50215051      0.56180124 0.56715274      0.61111111   1
## 2540          0.48096165      0.44850821 0.42649221      0.44444444   1
## 2541          0.59142555      0.49908815 0.66733452      0.77777778   1
## 2542          0.74897294      0.72652504 0.54073581      0.50000000   1
```

```
## 2543          0.57588384          0.63189470 0.53414033          0.38888889    1
## 2544          0.44640831          0.33121798 0.42968446          0.38888889    1
## 2545          0.68099593          0.60629407 0.67260247          0.88888889    1
## 2546          0.42063292          0.48535277 0.47992243          0.27777778    0
## 2547          0.61171408          0.63462550 0.56829850          0.61111111    0
## 2548          0.62058269          0.63679216 0.63275503          0.72222222    1
## 2549          0.48337228          0.48877102 0.51780828          0.50000000    0
## 2550          0.45240509          0.40345008 0.32065581          0.38888889    0
## 2551          0.32210520          0.42628432 0.46225766          0.55555556    1
## 2552          0.50232426          0.53280080 0.57668044          0.55555556    1
## 2553          0.53069854          0.63790422 0.57445276          0.61111111    0
## 2554          0.47174772          0.45758907 0.45548774          0.55555556    0
## 2555          0.51370223          0.56870714 0.55851577          0.61111111    1
## 2556          0.48398054          0.51204304 0.55208827          0.61111111    1
## 2557          0.49879256          0.61406174 0.54419317          0.55555556    1
## 2558          0.58753027          0.58369992 0.62637457          0.72222222    1
## 2559          0.43521052          0.34329442 0.51214962          0.50000000    0
## 2560          0.61243743          0.78507629 0.62615754          0.61111111    1
## 2561          0.55046922          0.55490802 0.64142551          0.66666667    1
## 2562          0.47752072          0.44974478 0.38224650          0.33333333    0
## 2563          0.77380470          0.71175362 0.55397914          0.55555556    1
## 2564          0.53111950          0.52182816 0.57826773          0.66666667    1
## 2565          0.44031971          0.44820835 0.49653962          0.55555556    0
## 2566          0.35911003          0.30458310 0.19458065          0.22222222    0
## 2567          0.43102267          0.50342261 0.53760295          0.44444444    1
## 2568          0.51610510          0.42775997 0.44790089          0.44444444    1
## 2569          0.42393120          0.35426247 0.43118929          0.61111111    1
## 2570          0.40833127          0.38814548 0.46360720          0.44444444    0
## 2571          0.53964688          0.34493318 0.43670721          0.55555556    0
## 2572          0.44551906          0.39764386 0.36593386          0.50000000    0
## 2573          0.46333191          0.46902420 0.55303326          0.61111111    0
## 2574          0.52481239          0.34567957 0.40581108          0.55555556    1
## 2575          0.67035480          0.63781313 0.61636461          0.50000000    1
## 2576          0.52144623          0.44372610 0.46006391          0.61111111    0
## 2577          0.36731303          0.27111862 0.21474843          0.22222222    0
## 2578          0.46998365          0.41923723 0.39046430          0.33333333    1
## 2579          0.63306501          0.55196545 0.30277925          0.33333333    0
## 2580          0.50092325          0.28009308 0.40354164          0.44444444    0
## 2581          0.57617010          0.66466096 0.60892052          0.50000000    1
## 2582          0.65786227          0.62376077 0.62941302          0.61111111    1
## 2583          0.56952685          0.47403976 0.31814614          0.22222222    0
## 2584          0.35867220          0.32448217 0.35101240          0.33333333    0
## 2585          0.54652481          0.53352537 0.61066243          0.66666667    1
## 2586          0.40749067          0.31125049 0.27132546          0.33333333    0
## 2587          0.52005140          0.51592818 0.54459398          0.55555556    1
## 2588          0.31665283          0.30649210 0.28994824          0.22222222    1
## 2589          0.51025678          0.52743052 0.42929801          0.50000000    1
## 2590          0.66576427          0.61373849 0.61859428          0.50000000    1
## 2591          0.62951498          0.57961785 0.52022144          0.44444444    1
## 2592          0.50880586          0.53458499 0.39344391          0.50000000    0
## 2593          0.48306783          0.57821894 0.62282970          0.61111111    0
## 2594          0.71543664          0.56995689 0.50407681          0.50000000    1
## 2595          0.38741899          0.29188288 0.41724580          0.50000000    0
## 2596          0.49974184          0.39618009 0.41675761          0.44444444    0
## 2597          0.64871171          0.69860585 0.50243071          0.38888889    0
## 2598          0.41339390          0.44373305 0.52640909          0.55555556    1
## 2599          0.32923508          0.38186356 0.35961186          0.22222222    0
## 2600          0.54531012          0.41807819 0.33859258          0.44444444    1
```

580

```
## 2601          0.37006616          0.44228626 0.40106662          0.50000000    0
## 2602          0.36099566          0.43775144 0.39393286          0.44444444    0
## 2603          0.50160675          0.53122393 0.57694670          0.61111111    0
## 2604          0.71434012          0.63393980 0.39876676          0.33333333    1
## 2605          0.42252482          0.57256846 0.52506612          0.55555556    1
## 2606          0.54539488          0.41066413 0.44848298          0.55555556    0
## 2607          0.57405085          0.46766208 0.53491494          0.50000000    1
## 2608          0.48862511          0.59172361 0.49940915          0.44444444    0
## 2609          0.50744957          0.49318603 0.50117240          0.44444444    0
## 2610          0.58618043          0.48682884 0.36407828          0.44444444    1
## 2611          0.48269079          0.40705659 0.46229807          0.61111111    0
## 2612          0.51915795          0.42282674 0.45568208          0.66666667    0
## 2613          0.66593643          0.66496096 0.50222647          0.50000000    1
## 2614          0.56343974          0.45360809 0.43722837          0.44444444    1
## 2615          0.49951581          0.53118059 0.42767153          0.50000000    0
## 2616          0.46112179          0.32851243 0.38091091          0.50000000    0
## 2617          0.50806984          0.39303231 0.44646967          0.44444444    0
## 2618          0.49054672          0.65736245 0.61201755          0.61111111    0
## 2619          0.63289857          0.59852592 0.52099547          0.61111111    1
## 2620          0.61690242          0.63586180 0.56011002          0.61111111    0
## 2621          0.52800376          0.55795358 0.58705725          0.44444444    1
## 2622          0.37375810          0.38233377 0.40492473          0.44444444    1
## 2623          0.51973234          0.51814392 0.46294287          0.61111111    0
## 2624          0.44698916          0.50301095 0.41741182          0.50000000    0
## 2625          0.55040138          0.53449772 0.44246563          0.38888889    0
## 2626          0.49906762          0.66423789 0.54636621          0.66666667    1
## 2627          0.53293813          0.69019861 0.60424152          0.55555556    0
## 2628          0.42296292          0.33308769 0.44759905          0.50000000    0
## 2629          0.54521141          0.51731207 0.55536363          0.50000000    0
## 2630          0.51761000          0.46287925 0.46546772          0.50000000    0
## 2631          0.45437307          0.54961941 0.43321043          0.44444444    0
## 2632          0.55370225          0.45159356 0.45427398          0.50000000    0
## 2633          0.60946646          0.47523836 0.46772388          0.50000000    1
## 2634          0.57127141          0.46431014 0.39648187          0.55555556    0
## 2635          0.47633886          0.53187609 0.51345219          0.66666667    0
## 2636          0.52292569          0.54635462 0.45560539          0.50000000    1
## 2637          0.58162750          0.61472636 0.61179122          0.66666667    1
## 2638          0.44151677          0.52808101 0.49757327          0.55555556    1
## 2639          0.55241826          0.57460900 0.58458093          0.50000000    0
## 2640          0.58255087          0.55298935 0.61723509          0.61111111    1
## 2641          0.48409038          0.60662578 0.51260870          0.50000000    1
## 2642          0.49476099          0.37151622 0.43508660          0.33333333    0
## 2643          0.55469695          0.50941372 0.44695916          0.50000000    1
## 2644          0.49378008          0.42229798 0.42776613          0.50000000    0
## 2645          0.48937412          0.50315121 0.46396394          0.44444444    0
## 2646          0.57233511          0.60589477 0.55468348          0.55555556    0
## 2647          0.52661556          0.49510139 0.56461966          0.50000000    0
## 2648          0.70438115          0.76464790 0.81304655          0.88888889    1
## 2649          0.36004263          0.50278768 0.52306714          0.38888889    0
## 2650          0.26005958          0.23982778 0.27769995          0.27777778    0
## 2651          0.52765605          0.40249498 0.46396551          0.61111111    0
## 2652          0.47802446          0.41095888 0.26701126          0.38888889    0
## 2653          0.41867113          0.28178783 0.34199008          0.44444444    0
## 2654          0.42256426          0.41817344 0.38613183          0.22222222    1
## 2655          0.38704139          0.33116845 0.43179884          0.44444444    0
## 2656          0.45047417          0.44539865 0.41885737          0.55555556    0
## 2657          0.52474093          0.50955357 0.53405789          0.50000000    1
## 2658          0.57758617          0.86548941 0.66549778          0.55555556    1
```

```
## 2659          0.52769559        0.60125017 0.70974790      0.77777778   1
## 2660          0.34687833        0.50305723 0.51710458      0.61111111   0
## 2661          0.37685463        0.49188806 0.44262361      0.44444444   1
## 2662          0.55944445        0.59869079 0.57988267      0.61111111   1
## 2663          0.65094606        0.59502277 0.60514111      0.55555556   1
## 2664          0.53787868        0.56825418 0.47727330      0.38888889   0
## 2665          0.40131195        0.38185109 0.50853133      0.72222222   0
## 2666          0.50367969        0.53494774 0.61724593      0.66666667   0
## 2667          0.55454171        0.58993783 0.54204424      0.50000000   1
## 2668          0.33485397        0.20795010 0.22552569      0.33333333   0
## 2669          0.35992020        0.23428684 0.18879432      0.33333333   0
## 2670          0.46093661        0.56294364 0.67245778      0.61111111   0
## 2671          0.54898930        0.43164596 0.33491002      0.38888889   1
## 2672          0.51139045        0.46219021 0.36908639      0.27777778   0
## 2673          0.63264311        0.55165846 0.52090564      0.33333333   1
## 2674          0.50935716        0.58285490 0.61731547      0.61111111   1
## 2675          0.48906554        0.60654543 0.63513357      0.50000000   1
## 2676          0.52046253        0.57898637 0.52739975      0.44444444   1
## 2677          0.50502711        0.48075467 0.29409795      0.33333333   0
## 2678          0.42811626        0.62296159 0.54207894      0.55555556   1
## 2679          0.42016835        0.20997084 0.26616682      0.33333333   0
## 2680          0.45431541        0.38612179 0.36535735      0.44444444   0
## 2681          0.55347254        0.45642954 0.42855710      0.44444444   0
## 2682          0.59389531        0.52496108 0.52514463      0.50000000   1
## 2683          0.46969222        0.39058387 0.30933277      0.33333333   1
## 2684          0.44537978        0.35545499 0.37165086      0.27777778   0
## 2685          0.48509060        0.52546033 0.51113036      0.33333333   0
## 2686          0.48159901        0.60665584 0.60064468      0.50000000   1
## 2687          0.61421520        0.70638342 0.68035703      0.72222222   1
## 2688          0.53940294        0.39706631 0.35724477      0.22222222   1
## 2689          0.43028059        0.41247084 0.53513159      0.50000000   1
## 2690          0.48694434        0.58888110 0.53450308      0.50000000   1
## 2691          0.57217096        0.51267867 0.53062736      0.50000000   1
## 2692          0.54446516        0.51861832 0.54162219      0.38888889   0
## 2693          0.53213920        0.72137928 0.53475858      0.61111111   1
## 2694          0.38712234        0.35278417 0.22671782      0.16666667   0
## 2695          0.57679436        0.78660059 0.73999468      0.66666667   1
## 2696          0.41881783        0.25532358 0.27591755      0.27777778   0
## 2697          0.46916282        0.40946303 0.39536563      0.33333333   0
## 2698          0.60975955        0.63480289 0.63482390      0.72222222   1
## 2699          0.52446835        0.55340714 0.61859201      0.55555556   0
## 2700          0.50528697        0.50492654 0.53048865      0.72222222   0
## 2701          0.48092802        0.30870947 0.38596223      0.50000000   0
## 2702          0.56425830        0.68290335 0.69727200      0.83333333   1
## 2703          0.48803872        0.41766279 0.43801183      0.44444444   0
## 2704          0.59117796        0.65962883 0.64761637      0.61111111   1
## 2705          0.24462177        0.32335502 0.25537626      0.33333333   1
## 2706          0.72968516        0.82146162 0.57472793      0.38888889   0
## 2707          0.40785093        0.37331921 0.38019695      0.44444444   0
## 2708          0.32277002        0.29485783 0.32162535      0.55555556   0
## 2709          0.53968760        0.63380832 0.75022347      0.66666667   1
## 2710          0.46242934        0.63096600 0.68601951      0.61111111   0
## 2711          0.68644536        0.64081280 0.65121004      0.61111111   1
## 2712          0.43879457        0.40783384 0.54192575      0.66666667   1
## 2713          0.54392291        0.40869127 0.38975583      0.50000000   0
## 2714          0.45502018        0.53036897 0.35139451      0.38888889   0
## 2715          0.73153689        0.78402310 0.70496275      0.66666667   1
## 2716          0.39310370        0.38009515 0.38840840      0.33333333   0
```

```
## 2717          0.50394480          0.54995498 0.55260766          0.55555556    0
## 2718          0.44712971          0.48609141 0.43152337          0.44444444    1
## 2719          0.47512729          0.49560587 0.55524431          0.44444444    1
## 2720          0.45028846          0.43222268 0.35098084          0.33333333    1
## 2721          0.33264215          0.28581313 0.39436081          0.33333333    0
## 2722          0.50289229          0.46680760 0.43551170          0.66666667    0
## 2723          0.65146499          0.46230300 0.67849950          0.72222222    1
## 2724          0.37125072          0.37552311 0.37943811          0.38888889    0
## 2725          0.47908179          0.35564831 0.32284702          0.44444444    0
## 2726          0.54228472          0.31091530 0.39459545          0.44444444    0
## 2727          0.46286975          0.50923646 0.39041001          0.38888889    0
## 2728          0.66140072          0.67427612 0.67720863          0.72222222    1
## 2729          0.55446897          0.63998745 0.66258640          0.61111111    0
## 2730          0.58468558          0.65532139 0.60977850          0.44444444    0
## 2731          0.63406831          0.73677328 0.79399593          0.66666667    1
## 2732          0.50287167          0.51343673 0.51130952          0.66666667    1
## 2733          0.49391133          0.45419191 0.45879536          0.38888889    1
## 2734          0.62019050          0.69464078 0.54283084          0.55555556    1
## 2735          0.43865769          0.31609923 0.25186003          0.27777778    1
## 2736          0.51490155          0.50570820 0.54764771          0.38888889    0
## 2737          0.60824958          0.64343464 0.58636826          0.61111111    1
## 2738          0.34946661          0.40769445 0.31779066          0.33333333    0
## 2739          0.49127336          0.54888925 0.54897644          0.55555556    1
## 2740          0.44732183          0.53605117 0.47463676          0.50000000    0
## 2741          0.46814205          0.48315360 0.53909453          0.55555556    1
## 2742          0.35844650          0.29851884 0.40656531          0.55555556    0
## 2743          0.46842152          0.48330131 0.54444569          0.44444444    0
## 2744          0.35266635          0.32057756 0.37620241          0.33333333    0
## 2745          0.57434025          0.43034418 0.40094467          0.44444444    1
## 2746          0.53549800          0.50673606 0.66004895          0.66666667    1
## 2747          0.49541454          0.44955117 0.38114661          0.38888889    0
## 2748          0.56330470          0.52739799 0.37172704          0.38888889    0
## 2749          0.51718527          0.59923507 0.58041051          0.55555556    0
## 2750          0.56142852          0.63695595 0.74171777          0.66666667    1
## 2751          0.54842823          0.61560774 0.56438657          0.50000000    1
## 2752          0.52055695          0.49461554 0.59543441          0.55555556    1
## 2753          0.55715518          0.42459125 0.46968783          0.50000000    1
## 2754          0.61298174          0.81239466 0.69183381          0.44444444    1
## 2755          0.38865259          0.49686111 0.52449929          0.44444444    1
## 2756          0.61686374          0.60210377 0.59077182          0.72222222    1
## 2757          0.39619483          0.60700701 0.43796606          0.33333333    1
## 2758          0.40287144          0.45225150 0.46974074          0.61111111    1
## 2759          0.38175223          0.28446642 0.36432741          0.50000000    0
## 2760          0.54399190          0.43011041 0.48668776          0.44444444    1
## 2761          0.63000539          0.69591790 0.44254812          0.50000000    0
## 2762          0.48918641          0.30018877 0.46522730          0.55555556    0
## 2763          0.42903614          0.55572836 0.40848680          0.44444444    0
## 2764          0.56499997          0.39292160 0.46675492          0.50000000    1
## 2765          0.42181828          0.21318555 0.38515062          0.55555556    0
## 2766          0.43145366          0.22668614 0.39704973          0.55555556    0
## 2767          0.50094117          0.50398931 0.34976929          0.44444444    1
## 2768          0.50911609          0.48966182 0.54585554          0.55555556    1
## 2769          0.32510411          0.40164675 0.42329252          0.44444444    1
## 2770          0.55555624          0.47475388 0.42891338          0.50000000    0
## 2771          0.44154469          0.44948417 0.39233367          0.44444444    0
## 2772          0.49323235          0.36010967 0.41720114          0.66666667    1
## 2773          0.49657762          0.42582924 0.46609971          0.27777778    1
## 2774          0.50285400          0.74386911 0.60692695          0.66666667    0
```

## 2775	0.55604153	0.37648086	0.46919913	0.55555556	0
## 2776	0.45499555	0.50398529	0.49587232	0.61111111	0
## 2777	0.43679505	0.48404632	0.49615681	0.50000000	1
## 2778	0.56060461	0.55088484	0.44956226	0.38888889	0
## 2779	0.41695479	0.28542325	0.30040981	0.33333333	0
## 2780	0.48720598	0.43397202	0.48653335	0.61111111	0
## 2781	0.53695205	0.44904166	0.39428901	0.44444444	1
## 2782	0.58040236	0.73412814	0.55369672	0.50000000	1
## 2783	0.59130420	0.48017576	0.44948896	0.50000000	0
## 2784	0.69976149	0.77223813	0.74549226	0.66666667	1
## 2785	0.51191797	0.57695125	0.58415538	0.50000000	1
## 2786	0.57764403	0.64766929	0.64309895	0.72222222	1
## 2787	0.71508101	0.79678033	0.64161287	0.66666667	1
## 2788	0.36779023	0.38825572	0.44167999	0.44444444	1
## 2789	0.47357480	0.57552889	0.55436344	0.38888889	0
## 2790	0.60111738	0.56181623	0.62472273	0.61111111	1
## 2791	0.49908986	0.47826238	0.44622387	0.50000000	0
## 2792	0.43661752	0.54478554	0.44539496	0.50000000	0
## 2793	0.60861592	0.51845135	0.53166511	0.55555556	1
## 2794	0.57197624	0.35573488	0.33990005	0.33333333	0
## 2795	0.52048069	0.47211901	0.48986489	0.50000000	0
## 2796	0.43194089	0.42676642	0.44993189	0.61111111	1
## 2797	0.57298940	0.50906357	0.43866565	0.66666667	0
## 2798	0.47257501	0.34196421	0.37346980	0.38888889	0
## 2799	0.61706199	0.56548267	0.38380468	0.44444444	1
## 2800	0.67499644	0.50642273	0.44288572	0.44444444	1
## 2801	0.51407175	0.46457391	0.36324179	0.38888889	0
## 2802	0.50724399	0.55561732	0.50823659	0.44444444	1
## 2803	0.53023445	0.48408602	0.50622640	0.55555556	0
## 2804	0.52373875	0.67551797	0.63325798	0.66666667	1
## 2805	0.64311091	0.58276925	0.50643188	0.61111111	0
## 2806	0.31341841	0.46871012	0.40304822	0.44444444	1
## 2807	0.44681872	0.51554219	0.53983746	0.50000000	0
## 2808	0.58489746	0.56460224	0.53809144	0.61111111	1
## 2809	0.42262049	0.44707877	0.45047824	0.61111111	1
## 2810	0.51339664	0.45998114	0.33346946	0.27777778	1
## 2811	0.43646332	0.44413827	0.34018774	0.38888889	0
## 2812	0.61122633	0.46546533	0.48508647	0.44444444	0
## 2813	0.62389872	0.63725034	0.64581627	0.83333333	1
## 2814	0.44303147	0.46850274	0.45587057	0.38888889	1
## 2815	0.50626992	0.56240635	0.68807830	0.66666667	1
## 2816	0.59535707	0.57816434	0.47293266	0.50000000	0
## 2817	0.40897575	0.56128539	0.61283339	0.72222222	0
## 2818	0.30625398	0.44949506	0.29758531	0.44444444	1
## 2819	0.52001483	0.54350268	0.42104063	0.50000000	1
## 2820	0.75936169	0.62398770	0.60228397	0.61111111	1
## 2821	0.40402506	0.58705897	0.65395793	0.61111111	1
## 2822	0.35351286	0.31751892	0.41647149	0.38888889	0
## 2823	0.49532066	0.49043791	0.45970319	0.61111111	0
## 2824	0.67375892	0.29247331	0.35826405	0.38888889	0
## 2825	0.50548021	0.47385328	0.44946800	0.44444444	1
## 2826	0.63248694	0.72105012	0.59538484	0.66666667	1
## 2827	0.49616021	0.51018278	0.53183191	0.50000000	1
## 2828	0.57032748	0.67691144	0.61378791	0.72222222	1
## 2829	0.41153776	0.36879718	0.34778853	0.38888889	0
## 2830	0.19634887	0.49027189	0.45559445	0.55555556	0
## 2831	0.41773117	0.48964800	0.57332439	0.61111111	0
## 2832	0.59165142	0.72549547	0.60858916	0.66666667	1

```
## 2833          0.59223104          0.44168675 0.41909985          0.50000000   0
## 2834          0.49952593          0.57051260 0.57449551          0.66666667   0
## 2835          0.52105433          0.33169001 0.27976066          0.27777778   0
## 2836          0.49063673          0.55343526 0.65634477          0.66666667   1
## 2837          0.35035545          0.50927531 0.51884707          0.44444444   0
## 2838          0.42661874          0.36529113 0.47957583          0.44444444   1
## 2839          0.52742766          0.54471075 0.42888689          0.55555556   0
## 2840          0.48954328          0.42717470 0.46264254          0.33333333   0
## 2841          0.36093233          0.35057970 0.42300042          0.44444444   0
## 2842          0.50320570          0.43681719 0.32700779          0.44444444   0
## 2843          0.50263334          0.45046397 0.38216049          0.50000000   0
## 2844          0.55157900          0.48408093 0.41483024          0.44444444   0
## 2845          0.47431694          0.54439301 0.61592897          0.72222222   1
## 2846          0.60063780          0.67758088 0.60808334          0.50000000   1
## 2847          0.45264326          0.43255508 0.46379851          0.50000000   0
## 2848          0.47524766          0.49671817 0.52876600          0.44444444   1
## 2849          0.58704669          0.68480534 0.61543487          0.38888889   1
## 2850          0.45597991          0.46395368 0.41876966          0.44444444   1
## 2851          0.61950714          0.53648601 0.48609270          0.50000000   0
## 2852          0.47075484          0.55060497 0.52874241          0.50000000   1
## 2853          0.55631545          0.51299885 0.49066219          0.61111111   1
## 2854          0.54277109          0.53412232 0.51659636          0.55555556   0
## 2855          0.44759336          0.53820356 0.50994317          0.50000000   1
## 2856          0.47111956          0.42332287 0.43107510          0.38888889   1
## 2857          0.48499102          0.54603567 0.49425254          0.55555556   0
## 2858          0.51723325          0.56946879 0.47929894          0.38888889   0
## 2859          0.44796733          0.40434560 0.50178127          0.55555556   0
## 2860          0.50101751          0.42882914 0.44710580          0.50000000   1
## 2861          0.46215636          0.58124085 0.51518628          0.33333333   0
## 2862          0.35554111          0.31397610 0.33766520          0.55555556   1
## 2863          0.53526262          0.54247336 0.42839069          0.27777778   0
## 2864          0.50633789          0.38865613 0.41274233          0.44444444   1
## 2865          0.50234964          0.55676977 0.47198969          0.44444444   0
## 2866          0.33172276          0.50779989 0.54118100          0.50000000   1
## 2867          0.63726648          0.46910427 0.41134212          0.55555556   1
## 2868          0.34169764          0.38569119 0.38380468          0.27777778   1
## 2869          0.60677611          0.49561857 0.45617837          0.50000000   1
## 2870          0.35321592          0.51102068 0.50129156          0.61111111   1
## 2871          0.47126471          0.26516900 0.29741727          0.33333333   0
## 2872          0.40901275          0.46516817 0.49591875          0.50000000   0
## 2873          0.52716106          0.26448836 0.20135776          0.16666667   0
## 2874          0.51260476          0.52686925 0.48677450          0.33333333   1
## 2875          0.43486841          0.55803271 0.59786123          0.55555556   0
## 2876          0.62030938          0.61682997 0.55695759          0.66666667   1
## 2877          0.39143612          0.50269850 0.51821117          0.55555556   1
## 2878          0.52236056          0.58261598 0.61460955          0.66666667   1
## 2879          0.61975269          0.46681866 0.52656377          0.55555556   1
## 2880          0.52108180          0.50665786 0.43680859          0.33333333   1
## 2881          0.38770816          0.36423447 0.36924785          0.38888889   0
## 2882          0.52262901          0.46452444 0.52554577          0.44444444   0
## 2883          0.62576133          0.57548636 0.50955194          0.50000000   0
## 2884          0.60812608          0.71305735 0.63154893          0.55555556   1
## 2885          0.51956764          0.42863616 0.38771579          0.50000000   1
## 2886          0.44371454          0.39068871 0.35754145          0.44444444   0
## 2887          0.47742396          0.44665971 0.60662462          0.61111111   1
## 2888          0.68870653          0.55331758 0.50304097          0.61111111   1
## 2889          0.47884100          0.45841415 0.46282674          0.50000000   0
## 2890          0.41481634          0.48257026 0.40049948          0.44444444   0
```

## 2891	0.48287841	0.45385786 0.36785187	0.27777778	0
## 2892	0.56399624	0.42788075 0.40811231	0.50000000	0
## 2893	0.60289649	0.52371718 0.40212335	0.44444444	0
## 2894	0.46867451	0.42503332 0.49728010	0.50000000	1
## 2895	0.71726916	0.62006104 0.73068367	0.72222222	1
## 2896	0.68138322	0.62954520 0.64631054	0.61111111	1
## 2897	0.57977451	0.70550471 0.55677293	0.50000000	1
## 2898	0.40903090	0.48467313 0.55894252	0.50000000	1
## 2899	0.61544999	0.73049869 0.68765005	0.66666667	1
## 2900	0.39756664	0.35946074 0.44507801	0.72222222	1
## 2901	0.45382319	0.43393752 0.40454477	0.38888889	0
## 2902	0.46418502	0.47139956 0.49889762	0.50000000	0
## 2903	0.37233216	0.39957642 0.38925742	0.55555556	0
## 2904	0.56312420	0.47882180 0.42683943	0.44444444	0
## 2905	0.57436819	0.47246491 0.46930229	0.55555556	1
## 2906	0.48241471	0.63564536 0.67037257	0.66666667	1
## 2907	0.66796254	0.65654583 0.61360957	0.55555556	0
## 2908	0.41545185	0.41764127 0.35172299	0.33333333	1
## 2909	0.41812074	0.55958408 0.52619496	0.44444444	1
## 2910	0.55113687	0.44859595 0.45932886	0.44444444	1
## 2911	0.48157081	0.33639082 0.29936002	0.38888889	0
## 2912	0.30548820	0.25327874 0.35607276	0.61111111	0
## 2913	0.50706483	0.61466867 0.58929150	0.55555556	0
## 2914	0.46376375	0.58666428 0.47381337	0.38888889	1
## 2915	0.39155363	0.51886481 0.60544306	0.66666667	0
## 2916	0.58469866	0.61058579 0.58629089	0.55555556	0
## 2917	0.44431670	0.41458367 0.38311686	0.27777778	1
## 2918	0.61596288	0.55845176 0.55662930	0.61111111	0
## 2919	0.44356367	0.41045807 0.41179044	0.33333333	1
## 2920	0.66259438	0.71895015 0.63640867	0.72222222	0
## 2921	0.44341434	0.37532314 0.42138435	0.27777778	0
## 2922	0.50692214	0.59662123 0.52317535	0.61111111	1
## 2923	0.46586595	0.49103463 0.34059620	0.27777778	0
## 2924	0.46714873	0.35623352 0.35205147	0.50000000	0
## 2925	0.37072910	0.38541626 0.42803795	0.22222222	0
## 2926	0.75355403	0.56981470 0.39648662	0.44444444	0
## 2927	0.43132297	0.52525864 0.48767790	0.44444444	0
## 2928	0.47876912	0.34167272 0.31033310	0.38888889	0
## 2929	0.52190752	0.48599311 0.50731906	0.66666667	1
## 2930	0.45483188	0.27716732 0.38860438	0.44444444	1
## 2931	0.23950779	0.20381960 0.36954863	0.50000000	1
## 2932	0.53296411	0.49616717 0.44492300	0.50000000	1
## 2933	0.47694565	0.49979908 0.37224283	0.38888889	0
## 2934	0.72784390	0.67672565 0.65082031	0.55555556	0
## 2935	0.41232519	0.38640363 0.38765082	0.22222222	0
## 2936	0.60121190	0.54341775 0.57189943	0.50000000	1
## 2937	0.40531765	0.34891094 0.44689769	0.61111111	0
## 2938	0.53019236	0.25635696 0.34658951	0.44444444	1
## 2939	0.52641979	0.57337047 0.51244889	0.72222222	0
## 2940	0.54625082	0.51601950 0.49247160	0.50000000	0
## 2941	0.32098202	0.42793245 0.52396231	0.55555556	1
## 2942	0.50692190	0.65570197 0.63882703	0.66666667	1
## 2943	0.24768059	0.23110920 0.31198668	0.27777778	0
## 2944	0.56144799	0.65786732 0.57978945	0.61111111	1
## 2945	0.66152564	0.64176364 0.58304434	0.50000000	0
## 2946	0.45608773	0.38221063 0.40791939	0.38888889	1
## 2947	0.48019516	0.40776177 0.40025382	0.33333333	0
## 2948	0.54121048	0.53079506 0.52181503	0.38888889	1

```
## 2949            0.47946542            0.45950705 0.37839643            0.55555556  0
## 2950            0.49101731            0.47902547 0.44254652            0.50000000  0
## 2951            0.41970707            0.40746630 0.47828713            0.66666667  0
## 2952            0.40703117            0.22672592 0.38197881            0.38888889  0
## 2953            0.55051341            0.49960145 0.45585944            0.50000000  1
## 2954            0.58564747            0.50989548 0.61959419            0.55555556  0
## 2955            0.49275994            0.46601315 0.48313963            0.50000000  0
## 2956            0.52490897            0.43126998 0.43572710            0.44444444  0
## 2957            0.58937084            0.48140874 0.41189123            0.55555556  1
## 2958            0.36081209            0.55030373 0.61153144            0.66666667  1
## 2959            0.50445088            0.51487627 0.55276997            0.44444444  0
## 2960            0.61869009            0.60003095 0.58696055            0.61111111  0
## 2961            0.56744550            0.56599939 0.63041388            0.55555556  0
## 2962            0.17523704            0.29552914 0.24761509            0.27777778  0
## 2963            0.27569781            0.51611535 0.42836867            0.50000000  0
## 2964            0.52788796            0.58084587 0.53076952            0.44444444  1
## 2965            0.30172313            0.54312615 0.47573738            0.50000000  1
## 2966            0.46948218            0.51720121 0.60195007            0.44444444  1
## 2967            0.44496416            0.36607787 0.38929286            0.44444444  0
## 2968            0.59262169            0.37076114 0.52709420            0.55555556  1
## 2969            0.36113092            0.32265533 0.41647622            0.27777778  0
## 2970            0.50343077            0.52184022 0.48251235            0.50000000  1
## 2971            0.57187960            0.53213879 0.51263822            0.50000000  1
## 2972            0.50280753            0.46948605 0.43741842            0.33333333  0
## 2973            0.48251562            0.48945587 0.44744088            0.44444444  0
## 2974            0.45526661            0.44934928 0.55751202            0.50000000  1
## 2975            0.45948261            0.33349521 0.47474280            0.38888889  0
## 2976            0.47178870            0.44085982 0.39914164            0.38888889  1
## 2977            0.56106619            0.53198366 0.55211817            0.61111111  0
## 2978            0.40089694            0.35738603 0.53240862            0.38888889  1
## 2979            0.44740649            0.45987251 0.42684430            0.50000000  0
## 2980            0.47685107            0.53591823 0.57709268            0.50000000  0
## 2981            0.26077527            0.23082596 0.25621593            0.44444444  0
## 2982            0.36570684            0.38970742 0.38928581            0.38888889  0
## 2983            0.61841775            0.63213307 0.65681868            0.55555556  1
## 2984            0.63345198            0.66121977 0.51560889            0.61111111  1
## 2985            0.37081809            0.46871264 0.43187247            0.44444444  0
## 2986            0.41570038            0.48535914 0.48553929            0.55555556  0
## 2987            0.28754867            0.21098845 0.33688785            0.44444444  0
## 2988            0.47422587            0.44228709 0.45823145            0.38888889  0
## 2989            0.43196876            0.43647504 0.34169519            0.22222222  0
## 2990            0.57145976            0.58063592 0.55183699            0.72222222  0
## 2991            0.44112662            0.41457385 0.48976101            0.61111111  0
## 2992            0.62540215            0.51888220 0.39318184            0.33333333  1
## 2993            0.38041181            0.43534170 0.54076991            0.55555556  0
## 2994            0.39004562            0.44073306 0.50189438            0.55555556  0
## 2995            0.36313503            0.42065379 0.35681626            0.44444444  1
## 2996            0.56582005            0.75171178 0.48638866            0.44444444  1
## 2997            0.34012123            0.24134700 0.51138078            0.66666667  0
## 2998            0.43532964            0.49351538 0.53483306            0.66666667  0
## 2999            0.44958762            0.36888406 0.35568602            0.44444444  0
## 3000            0.53019572            0.66534184 0.57422894            0.61111111  1
## 3001            0.49255833            0.53446960 0.57370804            0.61111111  1
## 3002            0.41571699            0.38915496 0.30849258            0.16666667  0
## 3003            0.50557561            0.44841693 0.42040651            0.50000000  1
## 3004            0.55659399            0.66337381 0.49749908            0.61111111  0
## 3005            0.42130978            0.57321467 0.58005353            0.50000000  1
## 3006            0.48733865            0.35046123 0.34417267            0.44444444  0
```

```
## 3007          0.58696178          0.58354028 0.53466124          0.61111111   1
## 3008          0.47940294          0.40337293 0.37192824          0.33333333   0
## 3009          0.48788791          0.54635482 0.58135570          0.55555556   1
## 3010          0.59065463          0.53631611 0.47811566          0.50000000   0
## 3011          0.79276512          0.64950229 0.67194568          0.55555556   1
## 3012          0.57592293          0.42927632 0.61468718          0.72222222   0
## 3013          0.52632824          0.63993654 0.56970472          0.55555556   1
## 3014          0.42553015          0.29233135 0.48431175          0.66666667   0
## 3015          0.52709997          0.44550792 0.52771426          0.55555556   0
## 3016          0.58933121          0.68347822 0.66785060          0.66666667   0
## 3017          0.47594771          0.47014613 0.35815605          0.38888889   0
## 3018          0.43359894          0.52493333 0.54346417          0.50000000   1
## 3019          0.47126664          0.39640289 0.39531397          0.50000000   1
## 3020          0.43352716          0.50312855 0.50298994          0.44444444   1
## 3021          0.56856252          0.57546513 0.57391215          0.55555556   1
## 3022          0.34321202          0.56477872 0.39678278          0.50000000   0
## 3023          0.61218339          0.54942835 0.39734875          0.27777778   0
## 3024          0.46723445          0.41251928 0.48536269          0.50000000   0
## 3025          0.65957208          0.56183443 0.57995424          0.55555556   1
## 3026          0.61635080          0.53240891 0.47820342          0.50000000   1
## 3027          0.56886453          0.43146112 0.46233980          0.33333333   0
## 3028          0.49387724          0.57474020 0.54581961          0.55555556   0
## 3029          0.48795286          0.50677120 0.37536453          0.44444444   0
## 3030          0.47135864          0.44776913 0.40440909          0.33333333   0
## 3031          0.43255962          0.52425373 0.40303951          0.44444444   0
## 3032          0.52621472          0.50612063 0.39527823          0.66666667   1
## 3033          0.58693466          0.66798745 0.52334007          0.44444444   0
## 3034          0.72329655          0.63684836 0.69858792          0.77777778   0
## 3035          0.37110636          0.31575825 0.39234818          0.55555556   1
## 3036          0.30541670          0.44406050 0.57625564          0.55555556   0
## 3037          0.48474072          0.42835958 0.48881007          0.38888889   1
## 3038          0.39799999          0.33713200 0.32763084          0.38888889   0
## 3039          0.50202018          0.48881237 0.44360702          0.50000000   1
## 3040          0.36098070          0.30253063 0.37388092          0.44444444   1
## 3041          0.51068547          0.40614932 0.41290769          0.33333333   0
## 3042          0.40993902          0.30701967 0.52655097          0.61111111   0
## 3043          0.37139701          0.52002910 0.62012886          0.66666667   1
## 3044          0.56179649          0.49488166 0.41925331          0.38888889   0
## 3045          0.37758647          0.35128972 0.29689054          0.38888889   0
## 3046          0.47528888          0.47701627 0.47146875          0.61111111   1
## 3047          0.52818197          0.53343873 0.50304554          0.55555556   1
## 3048          0.57196406          0.47391178 0.58141671          0.55555556   1
## 3049          0.50448428          0.45185283 0.35873999          0.38888889   0
## 3050          0.44281822          0.48746073 0.44340500          0.55555556   0
## 3051          0.52298741          0.38145090 0.47691552          0.50000000   0
## 3052          0.58953676          0.55361118 0.55419640          0.61111111   1
## 3053          0.63296389          0.55751768 0.43274947          0.50000000   1
## 3054          0.43096541          0.45816263 0.43866565          0.44444444   0
## 3055          0.58631051          0.48863180 0.47158223          0.55555556   1
## 3056          0.36404652          0.35552185 0.21794373          0.33333333   0
## 3057          0.60250327          0.58099384 0.62012886          0.88888889   1
## 3058          0.45338704          0.47502362 0.51107625          0.50000000   1
## 3059          0.52619799          0.45624767 0.41401432          0.38888889   0
## 3060          0.57738706          0.57792592 0.52807127          0.55555556   1
## 3061          0.44528353          0.31775577 0.43711089          0.50000000   0
## 3062          0.38362502          0.36846524 0.57431090          0.66666667   1
## 3063          0.54036838          0.70094463 0.55635964          0.61111111   1
## 3064          0.63233812          0.62776485 0.68842794          0.61111111   1
```

```
## 3065         0.41397965         0.41194642 0.49301287         0.50000000   1
## 3066         0.46688254         0.35077839 0.40110436         0.33333333   1
## 3067         0.51594340         0.55492093 0.51003198         0.66666667   1
## 3068         0.48446160         0.36084974 0.39109390         0.27777778   0
## 3069         0.41967802         0.56058944 0.41286858         0.44444444   0
## 3070         0.54370240         0.55870220 0.42983536         0.44444444   0
## 3071         0.59183314         0.70516561 0.70289819         0.61111111   1
## 3072         0.37211165         0.40196560 0.30269126         0.38888889   0
## 3073         0.55624298         0.52953116 0.42615888         0.44444444   0
## 3074         0.33699836         0.29522999 0.30039879         0.44444444   0
## 3075         0.48124175         0.42493000 0.48752020         0.50000000   0
## 3076         0.66159612         0.58945685 0.57700234         0.50000000   0
## 3077         0.56203550         0.42478885 0.37389745         0.38888889   0
## 3078         0.51086600         0.44179107 0.44488539         0.44444444   0
## 3079         0.50880131         0.65034801 0.61951503         0.50000000   1
## 3080         0.36266031         0.43130464 0.38609169         0.38888889   0
## 3081         0.38760284         0.44403641 0.40562760         0.50000000   1
## 3082         0.43303811         0.43852572 0.40719368         0.50000000   0
## 3083         0.51398510         0.45320223 0.39704741         0.50000000   1
## 3084         0.40467287         0.55477885 0.37718531         0.33333333   0
## 3085         0.56386711         0.57746015 0.47626900         0.50000000   0
## 3086         0.40969428         0.44834308 0.41064125         0.38888889   1
## 3087         0.28991852         0.49269158 0.44105091         0.44444444   1
## 3088         0.35327321         0.36392824 0.38468539         0.44444444   1
## 3089         0.36644650         0.69202514 0.54332350         0.66666667   0
## 3090         0.49028494         0.48741844 0.48721965         0.55555556   1
## 3091         0.52842839         0.61096048 0.51375494         0.50000000   1
## 3092         0.42875951         0.47220749 0.58292934         0.50000000   1
## 3093         0.50363903         0.54849262 0.46732927         0.50000000   1
## 3094         0.52954539         0.52108512 0.49810841         0.66666667   0
## 3095         0.53868138         0.42231006 0.45225336         0.66666667   1
## 3096         0.46159571         0.59421117 0.52614666         0.61111111   1
## 3097         0.59545386         0.52895555 0.47762360         0.38888889   0
## 3098         0.39032929         0.37992701 0.42431740         0.44444444   1
## 3099         0.45029172         0.49688492 0.44838384         0.55555556   1
## 3100         0.48776971         0.61469219 0.54424867         0.50000000   1
## 3101         0.54577072         0.59596175 0.55260766         0.55555556   1
## 3102         0.40266285         0.50992098 0.49104422         0.44444444   1
## 3103         0.78039243         0.80531338 0.75526399         0.55555556   1
## 3104         0.68359040         0.60148752 0.52831650         0.61111111   1
## 3105         0.62956506         0.57076767 0.46654518         0.44444444   1
## 3106         0.54182922         0.45030099 0.41070592         0.55555556   0
## 3107         0.34067425         0.23482587 0.37920096         0.38888889   0
## 3108         0.47676913         0.49820612 0.47517264         0.44444444   0
## 3109         0.64822025         0.63430788 0.53717425         0.61111111   0
## 3110         0.48299183         0.63500294 0.55459029         0.50000000   1
## 3111         0.47887373         0.52706080 0.50761589         0.44444444   0
## 3112         0.54564230         0.49003638 0.45751985         0.44444444   1
## 3113         0.57534225         0.62312116 0.55242217         0.55555556   1
## 3114         0.68919176         0.57320869 0.59725878         0.33333333   1
## 3115         0.45553047         0.44463711 0.39739847         0.38888889   0
## 3116         0.53427026         0.57694291 0.56363930         0.55555556   1
## 3117         0.52398466         0.45847013 0.37760550         0.50000000   1
## 3118         0.66940920         0.77028491 0.63406461         0.50000000   1
## 3119         0.46095505         0.49312895 0.52772333         0.50000000   1
## 3120         0.38084098         0.30133530 0.39600790         0.44444444   0
## 3121         0.56937384         0.62965363 0.55812622         0.50000000   1
## 3122         0.53811476         0.56267424 0.55093965         0.55555556   1
```

589

```
## 3123        0.58541735      0.50483276 0.52904636    0.50000000  0
## 3124        0.46880664      0.50089806 0.52825180    0.50000000  1
## 3125        0.32353688      0.20326877 0.37738568    0.44444444  0
## 3126        0.37978404      0.33188604 0.45351291    0.44444444  0
## 3127        0.54183437      0.45649069 0.45669193    0.55555556  1
## 3128        0.51550509      0.49719969 0.50098726    0.55555556  1
## 3129        0.58060777      0.56733009 0.56228373    0.50000000  0
## 3130        0.55698406      0.49523932 0.46866240    0.61111111  0
## 3131        0.62359629      0.69759911 0.53857899    0.44444444  1
## 3132        0.51319634      0.58138158 0.53750373    0.55555556  1
## 3133        0.49612016      0.47668937 0.52257389    0.61111111  1
## 3134        0.54854126      0.48946198 0.47790304    0.50000000  1
## 3135        0.55348747      0.69957881 0.57875417    0.72222222  1
## 3136        0.74454159      0.72460832 0.67498983    0.61111111  0
## 3137        0.50447415      0.36371076 0.51250109    0.50000000  0
## 3138        0.40896470      0.40251765 0.38862762    0.33333333  0
## 3139        0.64837100      0.62662436 0.47332279    0.50000000  0
## 3140        0.54803970      0.42282266 0.43330065    0.55555556  0
## 3141        0.46813205      0.40266228 0.47767450    0.66666667  1
## 3142        0.52620174      0.40870367 0.40335029    0.50000000  1
## 3143        0.49402167      0.65286923 0.59902848    0.61111111  1
## 3144        0.48878104      0.41914168 0.31414027    0.38888889  0
## 3145        0.35692274      0.25666379 0.29068331    0.38888889  0
## 3146        0.56518302      0.56894224 0.56680800    0.55555556  0
## 3147        0.39873281      0.37201456 0.35140591    0.50000000  0
## 3148        0.47511633      0.43705542 0.46077559    0.66666667  1
## 3149        0.51237317      0.49310578 0.53787970    0.61111111  1
## 3150        0.46955253      0.38489992 0.37357420    0.38888889  1
## 3151        0.37247077      0.33097278 0.32499590    0.44444444  0
## 3152        0.52934394      0.46985201 0.48950604    0.50000000  1
## 3153        0.59773167      0.54432900 0.59556970    0.55555556  1
## 3154        0.65172094      0.55360205 0.53703204    0.61111111  1
## 3155        0.49133089      0.81356981 0.68258596    0.66666667  1
## 3156        0.57488749      0.73441769 0.66509928    0.66666667  1
## 3157        0.46768734      0.49159558 0.59883371    0.61111111  0
## 3158        0.61826856      0.66334251 0.52665022    0.66666667  1
## 3159        0.68813458      0.83651517 0.70759949    0.66666667  1
## 3160        0.56708587      0.48619880 0.39294922    0.55555556  0
## 3161        0.46642605      0.37263763 0.34902795    0.16666667  0
## 3162        0.68295296      0.75583112 0.75517124    0.72222222  1
## 3163        0.53984160      0.51534166 0.47781358    0.38888889  0
## 3164        0.39463807      0.35860007 0.44834700    0.44444444  1
## 3165        0.24939628      0.37038393 0.29269207    0.44444444  0
## 3166        0.60649677      0.62321764 0.60486865    0.83333333  1
## 3167        0.52913590      0.60989302 0.65190354    0.66666667  1
## 3168        0.41477313      0.38787812 0.29464817    0.33333333  0
## 3169        0.37317868      0.39803774 0.37653317    0.50000000  0
## 3170        0.80801560      0.84074869 0.71100325    0.55555556  1
## 3171        0.53482392      0.38761296 0.48100115    0.55555556  0
## 3172        0.48918166      0.40165245 0.39188390    0.55555556  1
## 3173        0.46375877      0.46838692 0.52728722    0.38888889  0
## 3174        0.51866714      0.28234948 0.33352125    0.38888889  0
## 3175        0.46063869      0.40342550 0.55774515    0.61111111  1
## 3176        0.67126947      0.70057559 0.58363091    0.66666667  1
## 3177        0.34763387      0.24496318 0.16423759    0.22222222  0
## 3178        0.31423726      0.29587357 0.21872202    0.22222222  0
## 3179        0.53821823      0.51783881 0.53150052    0.50000000  1
## 3180        0.72007825      0.76215787 0.67108412    0.72222222  1
```

```
## 3181        0.43854209        0.36358149 0.55585852        0.61111111   0
## 3182        0.62535958        0.83074011 0.64324188        0.61111111   1
## 3183        0.49941983        0.42085674 0.44935997        0.33333333   0
## 3184        0.57632143        0.47705702 0.44613194        0.27777778   0
## 3185        0.59718473        0.50531423 0.48737791        0.55555556   0
## 3186        0.30285697        0.20506253 0.25735971        0.33333333   0
## 3187        0.49311293        0.60153301 0.61575111        0.50000000   1
## 3188        0.54047144        0.55326731 0.48313068        0.61111111   0
## 3189        0.60208734        0.54979797 0.44544034        0.50000000   1
## 3190        0.49187544        0.42102092 0.28140990        0.38888889   0
## 3191        0.40312517        0.55300339 0.47345782        0.50000000   1
## 3192        0.61118706        0.69485057 0.64199286        0.66666667   1
## 3193        0.46159744        0.47274423 0.43343127        0.22222222   0
## 3194        0.67573520        0.59047257 0.61614550        0.50000000   0
## 3195        0.59477202        0.57493628 0.55049763        0.44444444   1
## 3196        0.48831034        0.42850599 0.33463876        0.55555556   0
## 3197        0.38511497        0.41130943 0.33713601        0.44444444   0
## 3198        0.54218642        0.50159469 0.54014755        0.66666667   1
## 3199        0.62843492        0.41032619 0.48838019        0.66666667   0
## 3200        0.46176201        0.37570759 0.34741712        0.50000000   1
## 3201        0.54535319        0.42274754 0.55246551        0.44444444   1
## 3202        0.51962426        0.36854910 0.18894732        0.38888889   0
## 3203        0.43168818        0.38142120 0.30535632        0.33333333   0
## 3204        0.36693110        0.30265258 0.48465731        0.61111111   1
## 3205        0.52390955        0.42161419 0.42645845        0.50000000   1
## 3206        0.45567592        0.60139061 0.60112234        0.33333333   1
## 3207        0.47116054        0.36379990 0.38207427        0.50000000   0
## 3208        0.38012749        0.48649637 0.59404112        0.61111111   1
## 3209        0.44274967        0.41455367 0.46827379        0.50000000   0
## 3210        0.41027525        0.50961339 0.37131208        0.38888889   0
## 3211        0.51913272        0.70354340 0.52736684        0.61111111   1
## 3212        0.38513548        0.35838583 0.40868091        0.61111111   1
## 3213        0.55629535        0.48580363 0.53741642        0.33333333   0
## 3214        0.44708027        0.46702529 0.60255246        0.61111111   1
## 3215        0.57241908        0.56834256 0.57989842        0.61111111   1
## 3216        0.68468423        0.76041051 0.60893780        0.44444444   1
## 3217        0.53071085        0.24355750 0.37380977        0.44444444   0
## 3218        0.45885371        0.31623616 0.37955843        0.38888889   0
## 3219        0.62822969        0.58420065 0.67659821        0.61111111   1
## 3220        0.63868672        0.54924979 0.41961233        0.61111111   1
## 3221        0.34753559        0.24003909 0.33956502        0.44444444   0
## 3222        0.48782686        0.51371576 0.51506492        0.50000000   0
## 3223        0.64289879        0.68852230 0.49731892        0.50000000   1
## 3224        0.58578976        0.58280714 0.64713733        0.50000000   1
## 3225        0.56356163        0.65957269 0.47850686        0.50000000   1
## 3226        0.62301506        0.52402975 0.64569045        0.55555556   1
## 3227        0.44484529        0.48006388 0.32425669        0.44444444   0
## 3228        0.48751670        0.40187872 0.40393477        0.55555556   0
## 3229        0.44065609        0.37112449 0.55547413        0.50000000   1
## 3230        0.60697851        0.57030293 0.41351662        0.50000000   0
## 3231        0.52133211        0.60823607 0.45576433        0.44444444   0
## 3232        0.53931990        0.61535145 0.55143891        0.33333333   1
## 3233        0.55048752        0.42565515 0.48358474        0.55555556   1
## 3234        0.37623105        0.36868297 0.38430012        0.44444444   1
## 3235        0.50211888        0.54213919 0.67993196        0.61111111   1
## 3236        0.56899054        0.63566762 0.51024103        0.55555556   0
## 3237        0.52708948        0.46695910 0.43055012        0.44444444   0
## 3238        0.53522009        0.56075201 0.52471847        0.61111111   0
```

```
## 3239          0.49947940          0.43661543 0.52979645          0.55555556  1
## 3240          0.40802234          0.33997282 0.38464869          0.38888889  1
## 3241          0.59107052          0.37743250 0.45351812          0.38888889  0
## 3242          0.38877806          0.59465108 0.50746268          0.38888889  0
## 3243          0.45519668          0.58553146 0.51582373          0.50000000  0
## 3244          0.40345856          0.38666753 0.45392284          0.50000000  1
## 3245          0.56286789          0.54003975 0.51466979          0.61111111  1
## 3246          0.48852053          0.53509097 0.59080717          0.55555556  1
## 3247          0.47842687          0.47453031 0.50547689          0.55555556  1
## 3248          0.41240577          0.40126010 0.48768344          0.44444444  0
## 3249          0.51177634          0.49267987 0.47612958          0.55555556  1
## 3250          0.57831916          0.62397353 0.54943020          0.38888889  1
## 3251          0.46127205          0.36814095 0.40512716          0.22222222  1
## 3252          0.35198450          0.36190552 0.41613217          0.38888889  0
## 3253          0.55826746          0.76410199 0.65227411          0.61111111  1
## 3254          0.61321851          0.61112877 0.58620490          0.44444444  1
## 3255          0.54724912          0.68244587 0.60916589          0.50000000  1
## 3256          0.53332948          0.50090339 0.53235131          0.50000000  1
## 3257          0.55167258          0.56096819 0.64877421          0.61111111  1
## 3258          0.50961932          0.49835985 0.46453033          0.38888889  0
## 3259          0.53505299          0.67437680 0.58896523          0.55555556  0
## 3260          0.44650460          0.56294535 0.56664235          0.44444444  1
## 3261          0.40721960          0.54862956 0.46111155          0.50000000  1
## 3262          0.42544889          0.42817388 0.45360610          0.38888889  1
## 3263          0.61828242          0.59405172 0.56408627          0.50000000  1
## 3264          0.38099644          0.28528787 0.36354832          0.44444444  0
## 3265          0.50836429          0.42609215 0.45253161          0.44444444  1
## 3266          0.39258983          0.36929044 0.43158681          0.44444444  0
## 3267          0.59171040          0.54585185 0.54965072          0.61111111  1
## 3268          0.52386130          0.52405114 0.50891380          0.38888889  1
## 3269          0.44768576          0.46611154 0.46697103          0.33333333  0
## 3270          0.62493277          0.67137100 0.63489716          0.72222222  0
## 3271          0.39129161          0.34599472 0.35575741          0.44444444  0
## 3272          0.47221640          0.45454470 0.38380468          0.55555556  1
## 3273          0.60313389          0.48958557 0.54709573          0.55555556  1
## 3274          0.56478460          0.52815054 0.40639636          0.50000000  1
## 3275          0.82001420          0.69934184 0.60244474          0.66666667  0
## 3276          0.35731961          0.50277744 0.58890031          0.72222222  1
## 3277          0.57351987          0.53854057 0.57829264          0.50000000  1
## 3278          0.58778197          0.50728638 0.42742085          0.44444444  1
## 3279          0.40504809          0.53842367 0.48812746          0.44444444  1
## 3280          0.55107149          0.46693699 0.46346901          0.38888889  1
## 3281          0.55657577          0.51059071 0.46090658          0.33333333  0
## 3282          0.57033919          0.56713223 0.47378060          0.55555556  1
## 3283          0.57076611          0.54963164 0.51961608          0.50000000  1
## 3284          0.76133078          0.67679642 0.62029517          0.61111111  1
## 3285          0.51526200          0.56634948 0.69018210          0.88888889  1
## 3286          0.40299592          0.64086573 0.61278228          0.50000000  1
## 3287          0.43061228          0.44406068 0.44128894          0.44444444  0
## 3288          0.49249516          0.42637536 0.46139422          0.61111111  1
## 3289          0.54055011          0.45663765 0.36206212          0.38888889  0
## 3290          0.74067206          0.80739379 0.68268931          0.66666667  1
## 3291          0.60091734          0.57361519 0.55622551          0.44444444  1
## 3292          0.50919350          0.41035054 0.37841735          0.33333333  1
## 3293          0.51255670          0.57504940 0.53543203          0.44444444  1
## 3294          0.47388883          0.50853208 0.50309997          0.27777778  0
## 3295          0.42948181          0.56808052 0.57577102          0.38888889  1
## 3296          0.47917906          0.49498265 0.46006391          0.27777778  1
```

```
## 3297          0.51160716          0.43026929 0.36297205          0.44444444   0
## 3298          0.60855196          0.52823463 0.57162392          0.55555556   1
## 3299          0.43635886          0.40142979 0.28379441          0.27777778   0
## 3300          0.52751031          0.35657994 0.37161420          0.44444444   1
## 3301          0.52451245          0.50460268 0.30253421          0.33333333   0
## 3302          0.49223372          0.39521064 0.46820617          0.44444444   0
## 3303          0.45876125          0.63274650 0.60195007          0.72222222   1
## 3304          0.50112448          0.48955795 0.51481353          0.44444444   0
## 3305          0.46866074          0.44322826 0.34702435          0.44444444   0
## 3306          0.52029005          0.51294602 0.54713548          0.50000000   1
## 3307          0.59048504          0.56258169 0.56865864          0.55555556   1
## 3308          0.47325311          0.35948649 0.42431740          0.38888889   0
## 3309          0.46556369          0.43334055 0.37423299          0.50000000   1
## 3310          0.55900771          0.48559933 0.50357264          0.50000000   0
## 3311          0.41261551          0.40587401 0.34425003          0.44444444   0
## 3312          0.54978178          0.55360480 0.50792878          0.55555556   1
## 3313          0.37457282          0.34390896 0.31735283          0.27777778   0
## 3314          0.42355357          0.12719752 0.13542315          0.22222222   0
## 3315          0.57936857          0.45136512 0.39991493          0.33333333   0
## 3316          0.49704844          0.51668405 0.49058282          0.61111111   0
## 3317          0.48984686          0.42233541 0.41434600          0.50000000   1
## 3318          0.52287440          0.58684629 0.56581401          0.72222222   0
## 3319          0.47680641          0.35828536 0.43739732          0.33333333   0
## 3320          0.38326276          0.29609000 0.28802614          0.33333333   0
## 3321          0.41224922          0.46662767 0.46722303          0.61111111   0
## 3322          0.42852471          0.34032304 0.41931907          0.55555556   0
## 3323          0.54352513          0.54475667 0.42202913          0.38888889   0
## 3324          0.36694923          0.24614587 0.30608845          0.27777778   1
## 3325          0.47728781          0.56876939 0.60350240          0.50000000   0
## 3326          0.60459013          0.62220814 0.61247076          0.61111111   1
## 3327          0.47665382          0.44285568 0.43059568          0.33333333   0
## 3328          0.53899796          0.42294308 0.38787323          0.44444444   0
## 3329          0.58001029          0.49438961 0.39180871          0.50000000   1
## 3330          0.55733502          0.63637249 0.63987995          0.61111111   1
## 3331          0.39058754          0.63920419 0.43146670          0.50000000   1
## 3332          0.49646743          0.44598882 0.45275792          0.50000000   1
## 3333          0.61333783          0.64383481 0.64274209          0.61111111   1
## 3334          0.65744009          0.59794621 0.61262831          0.55555556   0
## 3335          0.48648618          0.46034547 0.49797688          0.66666667   0
## 3336          0.44340095          0.59766293 0.74515751          0.66666667   1
## 3337          0.63480953          0.50326824 0.52740706          0.55555556   1
## 3338          0.45037917          0.26898099 0.49268260          0.50000000   1
## 3339          0.46928918          0.45559506 0.36505232          0.33333333   0
## 3340          0.44189546          0.51522729 0.63083912          0.72222222   1
## 3341          0.52567680          0.38384907 0.36619046          0.55555556   0
## 3342          0.48235192          0.47968557 0.48559176          0.55555556   1
## 3343          0.49425594          0.59067467 0.54126787          0.61111111   1
## 3344          0.57272275          0.56764509 0.58795699          0.55555556   1
## 3345          0.32255056          0.24130819 0.27278326          0.38888889   0
## 3346          0.55714858          0.44469243 0.50771985          0.55555556   0
## 3347          0.52890642          0.54031101 0.59832875          0.66666667   1
## 3348          0.62585002          0.55664114 0.44443596          0.50000000   0
## 3349          0.23864142          0.43109169 0.29826091          0.38888889   0
## 3350          0.51492044          0.34670429 0.49317199          0.38888889   0
## 3351          0.48777577          0.48661067 0.40623136          0.44444444   0
## 3352          0.68521977          0.74734792 0.61825327          0.61111111   1
## 3353          0.55774287          0.42544080 0.35248543          0.33333333   0
## 3354          0.66216060          0.57890670 0.48041193          0.66666667   1
```

```
## 3355        0.43618035        0.29723142 0.26107241        0.38888889   0
## 3356        0.48482722        0.61925508 0.50874518        0.50000000   1
## 3357        0.51463662        0.67748882 0.66219022        0.66666667   1
## 3358        0.48712769        0.45365805 0.51304979        0.44444444   0
## 3359        0.42099827        0.41633113 0.36985082        0.50000000   0
## 3360        0.43112111        0.56047246 0.42369429        0.55555556   0
## 3361        0.48485477        0.42716747 0.43973250        0.27777778   0
## 3362        0.58421016        0.46306420 0.48948499        0.55555556   0
## 3363        0.53002456        0.45529457 0.40203164        0.44444444   0
## 3364        0.42648018        0.49234257 0.44857113        0.44444444   0
## 3365        0.43797966        0.48237010 0.49095788        0.61111111   1
## 3366        0.57855410        0.41807475 0.45966826        0.44444444   0
## 3367        0.47044161        0.39286118 0.42576158        0.50000000   1
## 3368        0.57490324        0.47565402 0.45426579        0.61111111   0
## 3369        0.49407250        0.43237809 0.56463788        0.50000000   1
## 3370        0.64459612        0.68628238 0.60141456        0.72222222   1
## 3371        0.45659233        0.49178803 0.51665099        0.66666667   0
## 3372        0.37709616        0.44561887 0.46471370        0.55555556   0
## 3373        0.48216475        0.41836681 0.43733707        0.44444444   0
## 3374        0.45451920        0.51399158 0.52771041        0.55555556   1
## 3375        0.35025559        0.21601343 0.28292401        0.38888889   0
## 3376        0.58414173        0.47473161 0.41563610        0.44444444   0
## 3377        0.57959774        0.30757291 0.41488064        0.38888889   1
## 3378        0.50408248        0.64129289 0.61241215        0.61111111   0
## 3379        0.54062907        0.61221004 0.54973253        0.50000000   1
## 3380        0.49763856        0.44533630 0.49603525        0.33333333   1
## 3381        0.50402480        0.50500364 0.51849169        0.44444444   0
## 3382        0.48328351        0.54882343 0.48653854        0.55555556   0
## 3383        0.48918992        0.58828320 0.56951137        0.61111111   1
## 3384        0.60667765        0.37195917 0.52838751        0.38888889   0
## 3385        0.42948037        0.41860027 0.36583016        0.44444444   1
## 3386        0.36596450        0.38578211 0.42266549        0.55555556   0
## 3387        0.46234661        0.49318765 0.52717760        0.44444444   0
## 3388        0.34652795        0.29047912 0.27321890        0.22222222   0
## 3389        0.53787699        0.52227271 0.44100478        0.61111111   1
## 3390        0.50144145        0.60246270 0.49354243        0.50000000   1
## 3391        0.50282543        0.65206716 0.56433748        0.61111111   1
## 3392        0.48303945        0.42460180 0.56589641        0.61111111   1
## 3393        0.61695563        0.48267209 0.45447305        0.55555556   0
## 3394        0.31634009        0.23343920 0.29022437        0.33333333   0
## 3395        0.46265562        0.45104894 0.41756528        0.50000000   0
## 3396        0.50657633        0.66957128 0.65719708        0.61111111   0
## 3397        0.41236766        0.57560090 0.54104046        0.55555556   1
## 3398        0.49639384        0.54405762 0.54919450        0.38888889   0
## 3399        0.40290460        0.31309692 0.36490338        0.38888889   1
## 3400        0.56820982        0.49693469 0.45100125        0.38888889   0
## 3401        0.66508900        0.40126234 0.45470193        0.44444444   0
## 3402        0.33562937        0.39986868 0.39827351        0.61111111   0
## 3403        0.48576580        0.34602117 0.33551031        0.50000000   1
## 3404        0.42646290        0.57364550 0.56802955        0.61111111   0
## 3405        0.66053872        0.53553014 0.51741238        0.50000000   1
## 3406        0.67240392        0.65646100 0.52682944        0.61111111   1
## 3407        0.42122279        0.55087985 0.54192468        0.61111111   1
## 3408        0.52479087        0.53534900 0.48508647        0.50000000   0
## 3409        0.62196112        0.46677257 0.56533625        0.50000000   0
## 3410        0.57841895        0.48530007 0.42484750        0.33333333   0
## 3411        0.55330878        0.56147473 0.45194286        0.44444444   1
## 3412        0.45234797        0.34073214 0.49313143        0.55555556   1
```

594

```
## 3413    0.49555197    0.57944467 0.51158727    0.55555556    0
## 3414    0.68908417    0.54727448 0.64988396    0.72222222    1
## 3415    0.50262351    0.50614616 0.37078714    0.44444444    0
## 3416    0.55541635    0.63161566 0.64057500    0.66666667    1
## 3417    0.44836528    0.49143715 0.49593809    0.61111111    1
## 3418    0.37728543    0.48231925 0.53249092    0.44444444    0
## 3419    0.46897062    0.54976635 0.51600097    0.55555556    1
## 3420    0.41316084    0.32271164 0.47075652    0.33333333    0
## 3421    0.54913143    0.39046323 0.39720962    0.61111111    0
## 3422    0.49496480    0.59483103 0.48245577    0.55555556    1
## 3423    0.44794237    0.48877174 0.53133725    0.61111111    0
## 3424    0.56661606    0.60510246 0.53736575    0.38888889    1
## 3425    0.52518936    0.51911274 0.45721728    0.50000000    0
## 3426    0.61145717    0.62893612 0.51403985    0.50000000    1
## 3427    0.45380400    0.63440521 0.56486322    0.50000000    0
## 3428    0.61677822    0.65747466 0.58855889    0.44444444    1
## 3429    0.50788110    0.50299850 0.52587593    0.55555556    0
## 3430    0.39853285    0.41513597 0.40336254    0.44444444    0
## 3431    0.56923026    0.46628553 0.38782270    0.44444444    0
## 3432    0.49178836    0.52116567 0.38413210    0.33333333    0
## 3433    0.41216727    0.33555066 0.40946273    0.44444444    1
## 3434    0.46928598    0.60651263 0.52559919    0.55555556    1
## 3435    0.61987584    0.68699733 0.60195007    0.61111111    1
## 3436    0.57554258    0.41996613 0.34438395    0.50000000    0
## 3437    0.55762260    0.50249086 0.46229807    0.33333333    1
## 3438    0.40627224    0.65908347 0.56657227    0.61111111    1
## 3439    0.40030492    0.47265347 0.36572802    0.33333333    0
## 3440    0.47952312    0.51910326 0.40253120    0.44444444    1
## 3441    0.44821488    0.45547383 0.52375184    0.61111111    0
## 3442    0.60299870    0.63991145 0.54204312    0.61111111    1
## 3443    0.49225178    0.59426894 0.50125078    0.61111111    0
## 3444    0.54461906    0.44193663 0.40375528    0.33333333    1
## 3445    0.64375615    0.57358350 0.60819924    0.61111111    0
## 3446    0.58303251    0.57862689 0.56370380    0.66666667    1
## 3447    0.50693836    0.50489259 0.56685138    0.61111111    1
## 3448    0.40917556    0.31212830 0.33665626    0.50000000    0
## 3449    0.60431615    0.63064446 0.61631194    0.44444444    0
## 3450    0.50269099    0.57641480 0.53910342    0.55555556    1
## 3451    0.49133309    0.39687435 0.57761525    0.50000000    1
## 3452    0.49707717    0.47386513 0.57318943    0.61111111    1
## 3453    0.35143855    0.31241375 0.37073012    0.44444444    0
## 3454    0.53911889    0.59877796 0.58932972    0.61111111    0
## 3455    0.53465759    0.41077711 0.46193635    0.44444444    0
## 3456    0.45190780    0.52182616 0.50404434    0.38888889    1
## 3457    0.51875709    0.60976602 0.50474224    0.50000000    1
## 3458    0.38068074    0.36906167 0.52579778    0.55555556    1
## 3459    0.53419296    0.54057174 0.57999217    0.50000000    1
## 3460    0.49189782    0.47735380 0.45859021    0.50000000    1
## 3461    0.51452557    0.42596360 0.47339368    0.38888889    0
## 3462    0.48032674    0.44570093 0.35201020    0.44444444    0
## 3463    0.56386228    0.59026676 0.61379349    0.72222222    0
## 3464    0.50752116    0.50257880 0.48695342    0.44444444    0
## 3465    0.55406837    0.30657602 0.29183616    0.33333333    1
## 3466    0.58008422    0.42420486 0.43904929    0.61111111    0
## 3467    0.47208042    0.32698161 0.36115334    0.33333333    0
## 3468    0.47031901    0.29587978 0.40553854    0.50000000    1
## 3469    0.49130864    0.45178921 0.40268329    0.44444444    0
## 3470    0.53500242    0.60640433 0.63007935    0.44444444    1
```

```
## 3471          0.61970100          0.59227229 0.57269406          0.55555556   0
## 3472          0.46847486          0.65813124 0.54874931          0.66666667   1
## 3473          0.45646880          0.44938360 0.52615648          0.61111111   0
## 3474          0.47499791          0.34028700 0.39288512          0.38888889   0
## 3475          0.31659878          0.40426838 0.39979163          0.50000000   0
## 3476          0.57256704          0.53943119 0.48990941          0.72222222   0
## 3477          0.38188472          0.33195531 0.37424729          0.44444444   0
## 3478          0.56678012          0.53787524 0.38295357          0.50000000   1
## 3479          0.55574669          0.60678430 0.56645189          0.61111111   0
## 3480          0.40265988          0.36647898 0.46846817          0.44444444   0
## 3481          0.37516133          0.44164938 0.39909250          0.33333333   0
## 3482          0.62395596          0.63280968 0.60876344          0.50000000   1
## 3483          0.41270794          0.30591901 0.43103158          0.55555556   0
## 3484          0.51604919          0.58391921 0.49521465          0.61111111   1
## 3485          0.55127992          0.53231653 0.66687430          0.72222222   0
## 3486          0.52395509          0.68910061 0.59743731          0.72222222   1
## 3487          0.70088829          0.48248476 0.39903502          0.44444444   0
## 3488          0.50650433          0.38693366 0.49547435          0.50000000   0
## 3489          0.49250155          0.52696615 0.53434691          0.33333333   1
## 3490          0.56892128          0.55743205 0.53950158          0.50000000   1
## 3491          0.60950720          0.62929160 0.60180868          0.72222222   1
## 3492          0.53007697          0.51686132 0.45460958          0.50000000   0
## 3493          0.56057675          0.61447072 0.60285215          0.50000000   1
## 3494          0.58179024          0.42222405 0.45877951          0.50000000   1
## 3495          0.60345415          0.59807978 0.59086967          0.72222222   1
## 3496          0.57631022          0.58469856 0.36282488          0.27777778   1
## 3497          0.47672507          0.46479088 0.46228590          0.33333333   1
## 3498          0.49024224          0.38519118 0.51834905          0.38888889   0
## 3499          0.51737269          0.59119837 0.60124624          0.72222222   1
## 3500          0.53974921          0.62320715 0.65638480          0.44444444   1
## 3501          0.56661706          0.61746344 0.60829855          0.55555556   1
## 3502          0.38165236          0.36257638 0.24481134          0.22222222   0
## 3503          0.40985867          0.37526250 0.38830094          0.38888889   0
## 3504          0.42201112          0.49906270 0.38000193          0.55555556   0
## 3505          0.50362524          0.51120349 0.50629327          0.38888889   0
## 3506          0.50069264          0.38298368 0.40033888          0.33333333   0
## 3507          0.59822086          0.55097730 0.49818325          0.61111111   1
## 3508          0.59695024          0.40131524 0.45261160          0.44444444   0
## 3509          0.53735184          0.48842577 0.50001904          0.50000000   1
## 3510          0.38361363          0.41969923 0.26621016          0.22222222   0
## 3511          0.56864658          0.55161872 0.55382698          0.55555556   1
## 3512          0.47267573          0.50976564 0.48526261          0.50000000   1
## 3513          0.63458280          0.58940441 0.41997675          0.61111111   1
## 3514          0.45546393          0.51349503 0.46534510          0.50000000   1
## 3515          0.44271591          0.52366138 0.50746153          0.44444444   0
## 3516          0.49349806          0.27204827 0.37482226          0.44444444   1
## 3517          0.50182669          0.36693177 0.41834302          0.55555556   1
## 3518          0.44534595          0.29636700 0.41615858          0.38888889   1
## 3519          0.44108386          0.36753786 0.51654340          0.55555556   1
## 3520          0.58397166          0.43812423 0.41196696          0.22222222   1
## 3521          0.48417021          0.33694418 0.30259676          0.33333333   0
## 3522          0.61154439          0.62524311 0.61530591          0.55555556   0
## 3523          0.47905736          0.60924681 0.48894482          0.55555556   0
## 3524          0.59800399          0.73910993 0.67752187          0.61111111   1
## 3525          0.54069470          0.58883684 0.51783551          0.55555556   0
## 3526          0.51026145          0.53081955 0.51799708          0.50000000   1
## 3527          0.55406653          0.58354248 0.46250604          0.38888889   0
## 3528          0.52329208          0.49939102 0.52538596          0.33333333   0
```

596

## 3529	0.58920409	0.57365125	0.52524108	0.55555556	0
## 3530	0.61067352	0.74321662	0.68895219	0.66666667	1
## 3531	0.48771715	0.55165852	0.58058073	0.72222222	1
## 3532	0.51014109	0.43343279	0.48033521	0.50000000	1
## 3533	0.54013521	0.63743999	0.61530591	0.50000000	1
## 3534	0.41060785	0.48816276	0.51402412	0.66666667	1
## 3535	0.40645071	0.41763757	0.41019933	0.38888889	0
## 3536	0.42895626	0.45880472	0.46239672	0.44444444	0
## 3537	0.52540070	0.46561636	0.42120989	0.44444444	0
## 3538	0.35017889	0.29776758	0.21886005	0.27777778	0
## 3539	0.50692649	0.51672229	0.46556101	0.44444444	0
## 3540	0.58762416	0.61717823	0.57048837	0.61111111	1
## 3541	0.54398029	0.38091794	0.42222877	0.38888889	1
## 3542	0.33353184	0.56408999	0.56294134	0.50000000	1
## 3543	0.63607503	0.72746951	0.59546267	0.61111111	1
## 3544	0.64021024	0.64977747	0.58631152	0.72222222	0
## 3545	0.66376410	0.72575220	0.68649912	0.61111111	1
## 3546	0.60096545	0.65852331	0.61720365	0.72222222	1
## 3547	0.46812806	0.53902176	0.46143878	0.38888889	0
## 3548	0.41443501	0.49915005	0.38093947	0.50000000	0
## 3549	0.64677938	0.56603954	0.59634062	0.55555556	1
## 3550	0.52603946	0.47058053	0.41385107	0.33333333	1
## 3551	0.60767498	0.57950153	0.67305356	0.66666667	1
## 3552	0.59204245	0.61518207	0.60140757	0.61111111	1
## 3553	0.47760055	0.53376180	0.55067058	0.66666667	1
## 3554	0.53543667	0.40415471	0.40393628	0.44444444	1
## 3555	0.49285528	0.47152395	0.52988076	0.55555556	1
## 3556	0.56167266	0.60974950	0.61321906	0.66666667	0
## 3557	0.56717062	0.53261513	0.51201854	0.33333333	1
## 3558	0.54668255	0.45915321	0.39898789	0.38888889	0
## 3559	0.64290465	0.66409961	0.68948633	0.66666667	0
## 3560	0.38258461	0.36545411	0.37052255	0.38888889	1
## 3561	0.53415323	0.64645579	0.57427491	0.61111111	1
## 3562	0.37343957	0.28428090	0.34697494	0.38888889	1
## 3563	0.66029976	0.77142605	0.65228181	0.55555556	1
## 3564	0.54876505	0.51304178	0.52613010	0.61111111	0
## 3565	0.40114750	0.37315697	0.27985188	0.16666667	0
## 3566	0.45435604	0.39970223	0.31201800	0.27777778	0
## 3567	0.40025227	0.34798484	0.42289787	0.61111111	0
## 3568	0.51558222	0.45620476	0.52041258	0.77777778	0
## 3569	0.58785467	0.52471706	0.54284571	0.50000000	1
## 3570	0.50977561	0.61747794	0.59426870	0.38888889	0
## 3571	0.55466905	0.50321813	0.52947600	0.44444444	0
## 3572	0.61825594	0.66276086	0.60510539	0.55555556	1
## 3573	0.59302918	0.50866472	0.48163004	0.61111111	0
## 3574	0.32977642	0.33306949	0.36946390	0.27777778	0
## 3575	0.50514500	0.43712526	0.52501766	0.44444444	1
## 3576	0.47717786	0.40835655	0.41184497	0.38888889	0
## 3577	0.54809986	0.52597823	0.69044403	0.55555556	1
## 3578	0.63842527	0.56884179	0.61957728	0.72222222	1
## 3579	0.51413996	0.39690835	0.56620129	0.55555556	0
## 3580	0.62292288	0.50938882	0.30988213	0.44444444	1
## 3581	0.58607970	0.53954859	0.46830086	0.50000000	1
## 3582	0.57789365	0.55159185	0.52277119	0.66666667	0
## 3583	0.68430335	0.80065658	0.63286581	0.66666667	1
## 3584	0.51066253	0.61984544	0.46571597	0.55555556	1
## 3585	0.49217539	0.40263084	0.43952475	0.44444444	0
## 3586	0.50604940	0.48776770	0.46457398	0.38888889	0

## 3587	0.59394127	0.54351664 0.39784670	0.38888889	1
## 3588	0.55592513	0.60109520 0.54266945	0.44444444	1
## 3589	0.61296241	0.67896724 0.57229982	0.50000000	0
## 3590	0.53831154	0.50815626 0.52146137	0.55555556	1
## 3591	0.55283843	0.49915837 0.52849295	0.50000000	1
## 3592	0.47804888	0.53435335 0.49374146	0.38888889	0
## 3593	0.65091856	0.75677996 0.62942411	0.61111111	1
## 3594	0.57499063	0.44372598 0.54618076	0.50000000	1
## 3595	0.56870626	0.63051923 0.59045156	0.66666667	1
## 3596	0.45691632	0.48000811 0.46360697	0.50000000	1
## 3597	0.37873635	0.40734145 0.43604278	0.38888889	1
## 3598	0.70348037	0.80770218 0.72689978	0.83333333	1
## 3599	0.62836471	0.56034307 0.56822658	0.61111111	1
## 3600	0.54081700	0.36966792 0.45709868	0.44444444	0
## 3601	0.53487088	0.42696437 0.44389531	0.55555556	0
## 3602	0.46794606	0.57112440 0.42878454	0.33333333	1
## 3603	0.54005707	0.55398554 0.49839540	0.61111111	0
## 3604	0.37247585	0.50908313 0.47382108	0.27777778	0
## 3605	0.42402716	0.60073394 0.51315914	0.50000000	1
## 3606	0.65968758	0.73908985 0.60745169	0.50000000	1
## 3607	0.42142276	0.34354827 0.50729565	0.66666667	1
## 3608	0.37028515	0.32786690 0.43649305	0.50000000	1
## 3609	0.42900903	0.46669460 0.54155114	0.61111111	0
## 3610	0.53112248	0.60385163 0.69617254	0.72222222	1
## 3611	0.54922103	0.67891791 0.70751968	0.83333333	1
## 3612	0.63115016	0.77822357 0.59647806	0.66666667	1
## 3613	0.46881379	0.39852862 0.38638858	0.38888889	0
## 3614	0.42003714	0.46039862 0.38001135	0.38888889	1
## 3615	0.84185503	0.69285924 0.60662462	0.66666667	1
## 3616	0.57369787	0.46395009 0.43345262	0.50000000	1
## 3617	0.36797513	0.49963795 0.44685324	0.55555556	0
## 3618	0.44435484	0.43491473 0.47898924	0.44444444	0
## 3619	0.47704336	0.60607656 0.55850599	0.61111111	1
## 3620	0.54512709	0.48917840 0.43585404	0.50000000	1
## 3621	0.50069449	0.61905128 0.60228210	0.50000000	1
## 3622	0.52808078	0.57456524 0.35787654	0.27777778	0
## 3623	0.54310842	0.59134177 0.50153910	0.38888889	1
## 3624	0.54369367	0.52209172 0.52575301	0.38888889	1
## 3625	0.51958292	0.46194697 0.42107565	0.44444444	0
## 3626	0.48950184	0.45660177 0.46803240	0.50000000	1
## 3627	0.54479755	0.55553841 0.61683514	0.72222222	1
## 3628	0.58030347	0.48004680 0.50285521	0.61111111	1
## 3629	0.47844422	0.49978195 0.47785426	0.50000000	1
## 3630	0.56818294	0.48511848 0.42590490	0.61111111	0
## 3631	0.48820683	0.38777645 0.30742925	0.38888889	0
## 3632	0.47822633	0.47985094 0.51686517	0.44444444	0
## 3633	0.44299251	0.42444207 0.34323692	0.27777778	0
## 3634	0.49608830	0.38477981 0.32086787	0.38888889	0
## 3635	0.37811079	0.29518069 0.30151322	0.44444444	1
## 3636	0.66827594	0.73266422 0.51602155	0.61111111	1
## 3637	0.44224221	0.45919248 0.53332906	0.66666667	1
## 3638	0.45209982	0.52864300 0.55091963	0.44444444	0
## 3639	0.41676296	0.29067922 0.22388606	0.16666667	0
## 3640	0.56643601	0.68457752 0.53500392	0.38888889	1
## 3641	0.45458400	0.41711191 0.48346163	0.50000000	0
## 3642	0.43740663	0.55414914 0.47247402	0.50000000	1
## 3643	0.45190152	0.62172464 0.68394462	0.66666667	1
## 3644	0.66923238	0.56653705 0.56192093	0.66666667	0

```
## 3645         0.31635221      0.33572622 0.38738408    0.38888889   0
## 3646         0.46716480      0.54282522 0.52655243    0.55555556   0
## 3647         0.48520422      0.42490103 0.45003881    0.61111111   1
## 3648         0.58723252      0.52219536 0.52143161    0.66666667   1
## 3649         0.52408370      0.56125315 0.52313599    0.61111111   1
## 3650         0.50452326      0.41831495 0.47482576    0.55555556   0
## 3651         0.31209784      0.37797202 0.26780673    0.44444444   0
## 3652         0.54018259      0.66564222 0.61801882    0.55555556   0
## 3653         0.61760101      0.75568674 0.64953470    0.77777778   1
## 3654         0.55194210      0.51467624 0.53962282    0.55555556   1
## 3655         0.37598274      0.10817008 0.10558729    0.27777778   0
## 3656         0.67473454      0.63252693 0.56897644    0.61111111   1
## 3657         0.33847809      0.30579368 0.53300474    0.44444444   1
## 3658         0.52321354      0.46970278 0.62538005    0.72222222   1
## 3659         0.56209339      0.50250303 0.63537558    0.55555556   1
## 3660         0.39676156      0.26499180 0.30022592    0.38888889   1
## 3661         0.26000363      0.15024822 0.23318048    0.27777778   0
## 3662         0.66973299      0.74468056 0.58598606    0.50000000   1
## 3663         0.44504200      0.49350434 0.49104422    0.38888889   0
## 3664         0.36033396      0.30418517 0.23758801    0.16666667   0
## 3665         0.56018837      0.75292480 0.62470657    0.61111111   1
## 3666         0.41704159      0.34091495 0.33831077    0.38888889   0
## 3667         0.34559334      0.40295310 0.51534427    0.33333333   0
## 3668         0.44679670      0.52980652 0.55453085    0.61111111   1
## 3669         0.38821566      0.41251069 0.48983475    0.55555556   0
## 3670         0.48829833      0.31848885 0.32323179    0.27777778   0
## 3671         0.34417779      0.23874660 0.28453078    0.33333333   0
## 3672         0.58466975      0.63242661 0.58006134    0.50000000   0
## 3673         0.39501164      0.41369759 0.48867843    0.50000000   0
## 3674         0.53006191      0.44992599 0.37657027    0.38888889   1
## 3675         0.56025056      0.58022793 0.54975100    0.55555556   0
## 3676         0.49187554      0.51332811 0.52994518    0.44444444   0
## 3677         0.47319690      0.54240011 0.53726485    0.55555556   1
## 3678         0.43727623      0.54731213 0.53697118    0.66666667   0
## 3679         0.46126757      0.56745700 0.45656765    0.44444444   1
## 3680         0.50115379      0.59994028 0.49383506    0.50000000   1
## 3681         0.48091989      0.47043545 0.46511095    0.55555556   0
## 3682         0.49803067      0.57526919 0.56215201    0.55555556   1
## 3683         0.62751066      0.47117980 0.53996279    0.66666667   1
## 3684         0.57221185      0.73049296 0.56807333    0.66666667   0
## 3685         0.42793842      0.48986311 0.46918102    0.33333333   0
## 3686         0.42597884      0.34089406 0.31529053    0.38888889   0
## 3687         0.42082945      0.21014133 0.38456933    0.33333333   1
## 3688         0.53821025      0.49964110 0.48565387    0.44444444   1
## 3689         0.55412595      0.60455278 0.46572050    0.55555556   1
## 3690         0.47971152      0.35893553 0.26552455    0.33333333   1
## 3691         0.55014694      0.41105797 0.51250510    0.38888889   1
## 3692         0.52530046      0.47913742 0.51597593    0.50000000   1
## 3693         0.36539057      0.33217810 0.37254026    0.38888889   1
## 3694         0.51252386      0.69386401 0.77512069    0.77777778   1
## 3695         0.62244149      0.74473999 0.66238655    0.66666667   1
## 3696         0.52297994      0.57172274 0.51887083    0.55555556   0
## 3697         0.41912977      0.48373583 0.43647121    0.44444444   0
## 3698         0.37738466      0.36665859 0.35014471    0.44444444   0
## 3699         0.41162085      0.40668852 0.46631041    0.44444444   1
## 3700         0.52056550      0.46141488 0.43444557    0.50000000   0
## 3701         0.46060631      0.54229746 0.49362435    0.44444444   0
## 3702         0.49744063      0.59630617 0.55321199    0.44444444   0
```

```
## 3703          0.52026674          0.38116191 0.45481202          0.38888889   0
## 3704          0.46325019          0.46371005 0.36923907          0.50000000   1
## 3705          0.67447263          0.75744888 0.62396114          0.55555556   1
## 3706          0.42327827          0.37043568 0.37158481          0.38888889   0
## 3707          0.45956411          0.47279965 0.44220672          0.55555556   1
## 3708          0.47655292          0.59520176 0.58063029          0.38888889   1
## 3709          0.39269224          0.31603184 0.28579488          0.33333333   0
## 3710          0.42480760          0.37877282 0.38962058          0.50000000   1
## 3711          0.38237210          0.43067249 0.40640666          0.50000000   0
## 3712          0.43731876          0.53311432 0.45905776          0.38888889   1
## 3713          0.46186165          0.51926824 0.45119602          0.61111111   0
## 3714          0.61601151          0.58751043 0.60130382          0.50000000   0
## 3715          0.57802454          0.47933071 0.44347827          0.61111111   1
## 3716          0.44710032          0.44078024 0.41445059          0.44444444   0
## 3717          0.50575650          0.47183664 0.46831221          0.44444444   1
## 3718          0.44676343          0.33416691 0.39372038          0.38888889   1
## 3719          0.51290892          0.48422804 0.50498790          0.50000000   1
## 3720          0.61121115          0.68704594 0.67177253          0.66666667   1
## 3721          0.46647182          0.48019649 0.45512804          0.55555556   1
## 3722          0.65288763          0.76807028 0.89455428          0.83333333   1
## 3723          0.54827950          0.53979707 0.40110699          0.55555556   1
## 3724          0.75695426          0.88655400 0.63615634          0.72222222   1
## 3725          0.55644025          0.37350566 0.33270295          0.38888889   0
## 3726          0.35363173          0.26140217 0.32429991          0.33333333   0
## 3727          0.51122014          0.61250595 0.57935644          0.61111111   1
## 3728          0.44472015          0.39857409 0.31155339          0.33333333   1
## 3729          0.40430926          0.38248286 0.39304936          0.50000000   0
## 3730          0.36138107          0.45348712 0.37601377          0.50000000   0
## 3731          0.51783023          0.49673898 0.42266462          0.50000000   0
## 3732          0.47479129          0.37163615 0.52881932          0.38888889   1
## 3733          0.68036575          0.74672364 0.80016422          0.94444444   1
## 3734          0.41869177          0.34181131 0.24493278          0.16666667   0
## 3735          0.59100285          0.58394509 0.60884112          0.50000000   0
## 3736          0.56384858          0.51902099 0.47864840          0.50000000   1
## 3737          0.39713197          0.49548849 0.35700071          0.33333333   0
## 3738          0.60929419          0.46918218 0.42871642          0.50000000   1
## 3739          0.42519487          0.55334996 0.54585554          0.61111111   0
## 3740          0.55355078          0.56144942 0.54763014          0.38888889   1
## 3741          0.27759177          0.25850082 0.17517696          0.22222222   0
## 3742          0.58186742          0.67931243 0.69976924          0.72222222   1
## 3743          0.49074842          0.40346503 0.50845919          0.50000000   0
## 3744          0.47854552          0.41530054 0.39334979          0.27777778   0
## 3745          0.59306367          0.65186375 0.57490594          0.55555556   0
## 3746          0.36976489          0.36492596 0.33476297          0.38888889   0
## 3747          0.54117424          0.47340642 0.59027642          0.55555556   1
## 3748          0.59462970          0.58146947 0.49120790          0.50000000   1
## 3749          0.44408390          0.33090337 0.35267341          0.55555556   1
## 3750          0.57473801          0.59945309 0.49146014          0.38888889   1
## 3751          0.56323213          0.47329711 0.49700197          0.55555556   0
## 3752          0.41656322          0.48430197 0.55028751          0.72222222   0
## 3753          0.77639807          0.62826859 0.51179815          0.61111111   0
## 3754          0.66224623          0.72793324 0.66859793          0.66666667   1
## 3755          0.53111294          0.35507100 0.45738060          0.55555556   1
## 3756          0.49693326          0.44371444 0.38967902          0.55555556   1
## 3757          0.66675735          0.68475702 0.44624909          0.55555556   1
## 3758          0.54678954          0.27389902 0.31422707          0.27777778   0
## 3759          0.52025276          0.51666952 0.56459165          0.66666667   1
## 3760          0.50545221          0.44076833 0.46530919          0.50000000   0
```

```
## 3761          0.66164187          0.63738328 0.66189008          0.50000000   1
## 3762          0.53572020          0.45448065 0.54838759          0.77777778   1
## 3763          0.56682257          0.49543331 0.48358600          0.44444444   0
## 3764          0.48414105          0.31576281 0.34466064          0.50000000   0
## 3765          0.45205334          0.48044560 0.37459724          0.50000000   0
## 3766          0.65768634          0.68045301 0.65720506          0.50000000   0
## 3767          0.56056361          0.54634896 0.59057737          0.61111111   1
## 3768          0.51658752          0.58429813 0.57812439          0.66666667   0
## 3769          0.41249181          0.37395484 0.26012013          0.27777778   0
## 3770          0.58158284          0.67053496 0.49981837          0.61111111   1
## 3771          0.34951459          0.33568342 0.41831507          0.38888889   0
## 3772          0.66488571          0.73247772 0.59368647          0.66666667   0
## 3773          0.35653308          0.33364598 0.29851475          0.38888889   0
## 3774          0.42001168          0.43323483 0.44527445          0.38888889   0
## 3775          0.37861802          0.28986402 0.26742992          0.22222222   0
## 3776          0.36148361          0.35998633 0.19687664          0.27777778   0
## 3777          0.48465687          0.38488537 0.51962317          0.66666667   0
## 3778          0.45573111          0.39971734 0.38200350          0.44444444   1
## 3779          0.49316181          0.54663890 0.58636826          0.77777778   1
## 3780          0.45489861          0.49041870 0.51599445          0.44444444   0
## 3781          0.54738304          0.41180145 0.51421326          0.50000000   1
## 3782          0.51107214          0.60829627 0.56114179          0.66666667   0
## 3783          0.68540173          0.73863372 0.68409263          0.77777778   1
## 3784          0.61514338          0.72995539 0.65564523          0.55555556   0
## 3785          0.39772440          0.25329160 0.32650193          0.38888889   0
## 3786          0.48346539          0.54951748 0.50018438          0.55555556   1
## 3787          0.26135666          0.22986578 0.29409795          0.27777778   0
## 3788          0.52865196          0.61711988 0.56524951          0.61111111   1
## 3789          0.43684545          0.37723848 0.43716289          0.61111111   1
## 3790          0.29073053          0.18698912 0.41325346          0.44444444   0
## 3791          0.51982871          0.74761946 0.63069739          0.61111111   1
## 3792          0.53405563          0.66017355 0.52799688          0.66666667   1
## 3793          0.59786246          0.53180985 0.53875415          0.38888889   1
## 3794          0.51747948          0.60144069 0.61738054          0.38888889   1
## 3795          0.40499338          0.31220420 0.51795557          0.55555556   0
## 3796          0.75086978          0.80694564 0.64221011          0.61111111   1
## 3797          0.45928939          0.45971758 0.52202816          0.55555556   0
## 3798          0.52008770          0.65916945 0.73309701          0.55555556   1
## 3799          0.56260840          0.56924595 0.74336762          0.66666667   1
## 3800          0.30532189          0.31555912 0.44052248          0.33333333   1
## 3801          0.53054942          0.48731819 0.49756081          0.50000000   1
## 3802          0.39317441          0.35814765 0.35280181          0.27777778   0
## 3803          0.47840710          0.51429576 0.64523259          0.83333333   1
## 3804          0.51476623          0.37013970 0.31529621          0.38888889   1
## 3805          0.47094368          0.43206035 0.47769986          0.50000000   1
## 3806          0.33565211          0.20813953 0.29502440          0.22222222   0
## 3807          0.43489365          0.33864895 0.39017563          0.44444444   0
## 3808          0.57907714          0.67213961 0.66983913          0.66666667   1
## 3809          0.55511044          0.46797077 0.45418694          0.50000000   1
## 3810          0.51100489          0.47967734 0.30938809          0.27777778   0
## 3811          0.53018354          0.51338903 0.57418731          0.55555556   1
## 3812          0.62057254          0.47552248 0.48659222          0.55555556   0
## 3813          0.47759285          0.40223124 0.44066840          0.50000000   1
## 3814          0.43393838          0.30946322 0.23380441          0.38888889   0
## 3815          0.37488607          0.38862486 0.30368749          0.22222222   0
## 3816          0.45431887          0.49550053 0.41536089          0.33333333   0
## 3817          0.43716645          0.31768899 0.27001467          0.27777778   0
## 3818          0.35976185          0.30244763 0.38514569          0.38888889   1
```

```
## 3819          0.51517425          0.57592403 0.56237313          0.50000000   1
## 3820          0.61049679          0.74422073 0.67780904          0.66666667   1
## 3821          0.46430733          0.42450016 0.46315613          0.38888889   0
## 3822          0.48652695          0.58653301 0.66013707          0.55555556   1
## 3823          0.49879157          0.47603123 0.42113611          0.50000000   0
## 3824          0.60456410          0.65500087 0.63104036          0.66666667   1
## 3825          0.57568080          0.57931201 0.54822832          0.61111111   1
## 3826          0.46036188          0.47629256 0.38804206          0.44444444   0
## 3827          0.54917690          0.51631599 0.53243818          0.44444444   1
## 3828          0.57856613          0.54597137 0.46979155          0.61111111   0
## 3829          0.47192025          0.56898839 0.47735655          0.50000000   0
## 3830          0.45527907          0.48297820 0.50478015          0.55555556   0
## 3831          0.56911715          0.74459615 0.71883287          0.66666667   1
## 3832          0.50139734          0.41105267 0.46452551          0.27777778   0
## 3833          0.55300607          0.52723886 0.52340082          0.55555556   1
## 3834          0.52896790          0.62607199 0.43017974          0.33333333   0
## 3835          0.41200959          0.31534036 0.31020658          0.55555556   0
## 3836          0.54048978          0.49568450 0.44179151          0.61111111   0
## 3837          0.58694054          0.61743581 0.59429167          0.55555556   1
## 3838          0.53056855          0.46991999 0.36184849          0.44444444   0
## 3839          0.50947344          0.52225396 0.36633289          0.38888889   0
## 3840          0.51418020          0.53612872 0.56952944          0.66666667   1
## 3841          0.57635617          0.65680592 0.57460344          0.55555556   1
## 3842          0.52954597          0.56018326 0.41331634          0.50000000   1
## 3843          0.60815580          0.70659914 0.53183191          0.55555556   1
## 3844          0.54361032          0.55206797 0.45251062          0.44444444   0
## 3845          0.47733911          0.46161841 0.53664811          0.55555556   1
## 3846          0.59485360          0.70703660 0.52510513          0.44444444   0
## 3847          0.20686357          0.16537139 0.39997383          0.38888889   0
## 3848          0.43237459          0.48308088 0.45378119          0.50000000   1
## 3849          0.55691161          0.34238146 0.29576743          0.27777778   0
## 3850          0.33144200          0.28676688 0.36022346          0.33333333   0
## 3851          0.48442538          0.37671156 0.41668838          0.38888889   0
## 3852          0.32269996          0.22382642 0.34513799          0.50000000   0
## 3853          0.49153894          0.36787934 0.50678971          0.72222222   1
## 3854          0.47164764          0.52549743 0.62582802          0.50000000   1
## 3855          0.49638293          0.24580782 0.29911360          0.27777778   0
## 3856          0.51487058          0.51638982 0.40211925          0.33333333   0
## 3857          0.52231145          0.49247149 0.38503234          0.50000000   1
## 3858          0.52957141          0.61277168 0.54316414          0.61111111   1
## 3859          0.49292212          0.54322257 0.52733739          0.38888889   0
## 3860          0.53862667          0.48787328 0.50248311          0.44444444   0
## 3861          0.38513996          0.39448609 0.32045376          0.33333333   0
## 3862          0.52277728          0.42724752 0.50655200          0.55555556   1
## 3863          0.59026384          0.69630509 0.51731249          0.50000000   1
## 3864          0.47279411          0.57445639 0.57192211          0.50000000   0
## 3865          0.35026588          0.36549923 0.27937564          0.38888889   0
## 3866          0.48579319          0.44059255 0.42418031          0.55555556   0
## 3867          0.43273760          0.30406707 0.41783216          0.44444444   1
## 3868          0.69792406          0.65603728 0.52559919          0.44444444   0
## 3869          0.53329787          0.50330727 0.37657027          0.44444444   0
## 3870          0.60933038          0.70670397 0.64952955          0.44444444   1
## 3871          0.56413259          0.51169369 0.40181033          0.50000000   0
## 3872          0.67237697          0.77170826 0.55116798          0.61111111   1
## 3873          0.53402103          0.36840160 0.34325286          0.38888889   0
## 3874          0.52463247          0.52115039 0.46293499          0.33333333   0
## 3875          0.46297790          0.38079657 0.39768057          0.27777778   0
## 3876          0.49744934          0.51887468 0.51382635          0.38888889   0
```

```
## 3877            0.61825679        0.63453386 0.49794765      0.55555556  1
## 3878            0.60612509        0.52337580 0.49402310      0.44444444  1
## 3879            0.54023298        0.55646252 0.60613056      0.50000000  1
## 3880            0.55284252        0.51702826 0.41061457      0.61111111  0
## 3881            0.46058615        0.56146603 0.54135413      0.50000000  1
## 3882            0.45720827        0.46921256 0.47320899      0.55555556  0
## 3883            0.43707552        0.52520349 0.40662091      0.44444444  1
## 3884            0.53119056        0.40242210 0.42733430      0.44444444  0
## 3885            0.54472761        0.52218685 0.39901986      0.44444444  0
## 3886            0.45983468        0.53071552 0.58105628      0.38888889  0
## 3887            0.47782486        0.44481266 0.42110719      0.38888889  0
## 3888            0.56629371        0.53325868 0.54917022      0.44444444  0
## 3889            0.66034003        0.68423469 0.44467393      0.55555556  0
## 3890            0.54669261        0.61450713 0.48094390      0.55555556  1
## 3891            0.44999417        0.45005425 0.40610370      0.44444444  0
## 3892            0.49988154        0.54334762 0.51330926      0.66666667  1
## 3893            0.47040660        0.49606401 0.49173335      0.38888889  0
## 3894            0.55764470        0.46876048 0.37823448      0.61111111  0
## 3895            0.50043072        0.52944451 0.55100002      0.55555556  0
## 3896            0.52558959        0.47462130 0.39717548      0.50000000  0
## 3897            0.60296857        0.70102210 0.71487557      0.66666667  1
## 3898            0.49072488        0.39183571 0.51884707      0.61111111  0
## 3899            0.56561162        0.64431163 0.64958207      0.83333333  1
## 3900            0.54274198        0.53141760 0.56230432      0.50000000  0
## 3901            0.24633679        0.36861422 0.48224679      0.61111111  1
## 3902            0.53046648        0.46710451 0.51949375      0.66666667  0
## 3903            0.48401717        0.39107893 0.40570135      0.27777778  1
## 3904            0.49160436        0.36995936 0.36160251      0.44444444  1
## 3905            0.48926356        0.58324899 0.51135881      0.55555556  1
## 3906            0.62219222        0.59192924 0.55895604      0.50000000  0
## 3907            0.55434223        0.47611994 0.53543799      0.55555556  1
## 3908            0.52598713        0.66056308 0.55417105      0.50000000  1
## 3909            0.52473598        0.44913580 0.42381817      0.38888889  1
## 3910            0.60203290        0.47703931 0.54670844      0.72222222  1
## 3911            0.47136389        0.38107808 0.39369201      0.22222222  0
## 3912            0.43804656        0.49325199 0.65810953      0.50000000  0
## 3913            0.70374082        0.79710428 0.68824213      0.61111111  1
## 3914            0.57400372        0.80126253 0.61530591      0.44444444  1
## 3915            0.33257220        0.39439978 0.45513936      0.38888889  0
## 3916            0.54527879        0.47837351 0.56559251      0.72222222  1
## 3917            0.49800732        0.57349106 0.51021654      0.44444444  1
## 3918            0.60517634        0.53882881 0.56179253      0.55555556  0
## 3919            0.58880653        0.68129001 0.59202544      0.55555556  0
## 3920            0.57537225        0.68053576 0.68757157      0.66666667  0
## 3921            0.35575129        0.39786585 0.41670735      0.50000000  1
## 3922            0.49644134        0.45793589 0.48721126      0.61111111  1
## 3923            0.48599676        0.56891910 0.60623708      0.72222222  1
## 3924            0.59008714        0.59210446 0.68581690      0.55555556  1
## 3925            0.39058602        0.37749923 0.42721116      0.44444444  0
## 3926            0.48812339        0.44187380 0.36219419      0.33333333  0
## 3927            0.57732771        0.47072474 0.42622184      0.50000000  0
## 3928            0.48872421        0.43521509 0.49289318      0.44444444  1
## 3929            0.41799709        0.43906280 0.48025282      0.66666667  1
## 3930            0.50479442        0.48081514 0.33378219      0.33333333  0
## 3931            0.29455950        0.20798505 0.35611229      0.38888889  0
## 3932            0.49228051        0.79682089 0.76419925      0.88888889  1
## 3933            0.43881254        0.37200332 0.44805945      0.55555556  0
## 3934            0.46353615        0.54407014 0.50558688      0.55555556  0
```

```
## 3935            0.43815235        0.33863213 0.50519052    0.72222222   1
## 3936            0.50651520        0.43498375 0.51272258    0.55555556   0
## 3937            0.50157491        0.57433253 0.53183191    0.66666667   1
## 3938            0.44044911        0.40391508 0.44955993    0.61111111   1
## 3939            0.43800863        0.39985841 0.39316020    0.55555556   0
## 3940            0.43716982        0.49998716 0.58550379    0.38888889   1
## 3941            0.63735007        0.59098437 0.54056220    0.61111111   1
## 3942            0.46665547        0.48048150 0.41805456    0.44444444   0
## 3943            0.48005744        0.61602245 0.52926629    0.50000000   1
## 3944            0.55698903        0.50786320 0.53993076    0.55555556   1
## 3945            0.58307287        0.55779580 0.65533266    0.66666667   1
## 3946            0.45985533        0.33123244 0.36828257    0.55555556   0
## 3947            0.62755181        0.79626921 0.80108566    0.83333333   1
## 3948            0.64854338        0.53983330 0.53428228    0.55555556   1
## 3949            0.50802671        0.40973377 0.35604335    0.44444444   1
## 3950            0.60523551        0.59567392 0.55326127    0.61111111   0
## 3951            0.53482264        0.58028470 0.51673703    0.61111111   1
## 3952            0.46861257        0.44025964 0.56014992    0.38888889   1
## 3953            0.53136670        0.63120439 0.56470521    0.61111111   1
## 3954            0.33030791        0.26957489 0.32314901    0.50000000   1
## 3955            0.41071148        0.30420294 0.30111687    0.38888889   1
## 3956            0.31951998        0.25504160 0.28936173    0.44444444   0
## 3957            0.70309592        0.74220702 0.61867287    0.66666667   1
## 3958            0.43765886        0.64186163 0.62422505    0.66666667   1
## 3959            0.48276691        0.38477718 0.42698607    0.33333333   1
## 3960            0.53606594        0.49939748 0.54102718    0.55555556   0
## 3961            0.56237395        0.67531630 0.56790059    0.44444444   0
## 3962            0.49119174        0.36776203 0.39979654    0.50000000   0
## 3963            0.69495597        0.68378255 0.58877370    0.61111111   1
## 3964            0.45902853        0.22906963 0.33213030    0.38888889   0
## 3965            0.59129943        0.69799777 0.61424457    0.72222222   1
## 3966            0.62171987        0.75910077 0.65184684    0.72222222   1
## 3967            0.48010352        0.52350895 0.47184290    0.55555556   0
## 3968            0.43246070        0.41709817 0.42542452    0.44444444   0
## 3969            0.43061142        0.43173045 0.45222301    0.44444444   0
## 3970            0.44185164        0.45843744 0.40593347    0.27777778   0
## 3971            0.55101557        0.52650438 0.59902848    0.66666667   0
## 3972            0.45145892        0.45178741 0.51712459    0.44444444   1
## 3973            0.40108258        0.42441809 0.48237356    0.44444444   0
## 3974            0.40842661        0.31505254 0.36669627    0.44444444   1
## 3975            0.48027046        0.47729341 0.41252866    0.66666667   0
## 3976            0.57426718        0.50012656 0.41098716    0.50000000   1
## 3977            0.56267567        0.50700396 0.62211847    0.55555556   1
## 3978            0.52009162        0.49161834 0.47640517    0.66666667   0
## 3979            0.56940844        0.66556317 0.70883473    0.83333333   1
## 3980            0.49413474        0.38827167 0.39745708    0.27777778   0
## 3981            0.43215025        0.24604635 0.32044894    0.44444444   0
## 3982            0.52090298        0.63397175 0.55520463    0.66666667   0
## 3983            0.63738524        0.40510499 0.37809866    0.38888889   0
## 3984            0.49869314        0.66467554 0.59250655    0.55555556   1
## 3985            0.63537990        0.68923508 0.56151962    0.44444444   1
## 3986            0.45311099        0.35825855 0.37272101    0.33333333   0
## 3987            0.65358916        0.61849786 0.59028885    0.66666667   0
## 3988            0.52622595        0.64155465 0.59215579    0.61111111   1
## 3989            0.45829405        0.39677822 0.32798686    0.38888889   0
## 3990            0.43753306        0.44093530 0.40683627    0.44444444   1
## 3991            0.43891548        0.64908104 0.67401596    0.77777778   1
## 3992            0.43799347        0.34016874 0.49347703    0.50000000   0
```

```
## 3993        0.60919992        0.61004265 0.58431327        0.44444444   1
## 3994        0.55425229        0.52654729 0.61887045        0.50000000   1
## 3995        0.49082136        0.60303572 0.55354546        0.38888889   0
## 3996        0.63101539        0.64289527 0.56388593        0.88888889   1
## 3997        0.45274491        0.39650069 0.33218364        0.38888889   0
## 3998        0.51888704        0.50853601 0.45408184        0.33333333   1
## 3999        0.65369928        0.59975014 0.51940787        0.61111111   1
## 4000        0.45722664        0.32880295 0.47698393        0.44444444   0
## 4001        0.60075054        0.68491761 0.54585554        0.50000000   1
## 4002        0.47302328        0.32525658 0.38230285        0.33333333   0
## 4003        0.48910871        0.35876792 0.46183519        0.61111111   0
## 4004        0.55142425        0.38258322 0.35999243        0.22222222   0
## 4005        0.38006692        0.29884178 0.31041323        0.16666667   0
## 4006        0.36849562        0.29510827 0.33916073        0.33333333   1
## 4007        0.56207262        0.71327776 0.69272805        0.61111111   1
## 4008        0.32474355        0.24860609 0.39190722        0.27777778   0
## 4009        0.49585874        0.38624680 0.41603070        0.55555556   0
## 4010        0.53350042        0.45382773 0.44430524        0.50000000   0
## 4011        0.52301411        0.57003658 0.56104781        0.44444444   0
## 4012        0.61767073        0.55882129 0.46748104        0.27777778   1
## 4013        0.45561474        0.38273522 0.39915414        0.44444444   0
## 4014        0.52572231        0.54351524 0.54085456        0.44444444   1
## 4015        0.60904040        0.44837971 0.49236051        0.38888889   1
## 4016        0.67266712        0.65396116 0.68028410        0.61111111   1
## 4017        0.70164566        0.65623024 0.69842167        0.66666667   1
## 4018        0.53773030        0.45288493 0.49734623        0.55555556   1
## 4019        0.50442987        0.39932599 0.54362672        0.66666667   1
## 4020        0.48901133        0.43469520 0.43656923        0.44444444   0
## 4021        0.31168870        0.28343474 0.36918111        0.16666667   0
## 4022        0.55775110        0.54623441 0.60036898        0.44444444   0
## 4023        0.48127520        0.47538262 0.45120750        0.33333333   0
## 4024        0.54782286        0.60147779 0.53400224        0.50000000   0
## 4025        0.61100433        0.47373594 0.41278647        0.38888889   0
## 4026        0.48511330        0.54611478 0.46984764        0.50000000   1
## 4027        0.51208340        0.52881405 0.60795106        0.72222222   1
## 4028        0.47117568        0.50704625 0.49848353        0.44444444   1
## 4029        0.63751374        0.66054215 0.51224840        0.66666667   0
## 4030        0.43320187        0.41756278 0.35671344        0.55555556   0
## 4031        0.45246788        0.50798493 0.54410435        0.66666667   0
## 4032        0.42488541        0.40566656 0.47215688        0.50000000   1
## 4033        0.63625526        0.62585173 0.54804542        0.44444444   1
## 4034        0.48744647        0.55751384 0.60649848        0.61111111   1
## 4035        0.68729532        0.79805306 0.61316973        0.66666667   1
## 4036        0.51245848        0.39043586 0.34847382        0.33333333   0
## 4037        0.51838532        0.65588798 0.50609306        0.44444444   1
## 4038        0.58413123        0.57967067 0.52963677        0.55555556   1
## 4039        0.52972447        0.47965069 0.45611609        0.50000000   0
## 4040        0.63262387        0.46616131 0.48012778        0.33333333   0
## 4041        0.30796750        0.36625561 0.37079169        0.27777778   0
## 4042        0.38299601        0.49661839 0.42861831        0.50000000   0
## 4043        0.67912618        0.67578964 0.52659540        0.66666667   0
## 4044        0.70380849        0.86324467 0.80785991        0.83333333   1
## 4045        0.65867607        0.83245910 0.77115585        0.77777778   1
## 4046        0.46562707        0.54473336 0.53473441        0.50000000   0
## 4047        0.36657533        0.33221791 0.52493775        0.38888889   1
## 4048        0.51748620        0.65084052 0.68863817        0.72222222   0
## 4049        0.62580239        0.77986000 0.63788877        0.50000000   0
## 4050        0.49479146        0.46139648 0.52174083        0.55555556   1
```

```
## 4051          0.38229481          0.28754171 0.32110643          0.16666667   0
## 4052          0.49097005          0.43117224 0.41304257          0.61111111   1
## 4053          0.63553216          0.70723766 0.61455102          0.55555556   1
## 4054          0.46835470          0.40024848 0.27126936          0.33333333   0
## 4055          0.45940839          0.49386518 0.48866112          0.44444444   0
## 4056          0.47049339          0.49045287 0.35944989          0.33333333   1
## 4057          0.49122596          0.46639786 0.36401578          0.33333333   1
## 4058          0.42096590          0.43430406 0.49475098          0.61111111   0
## 4059          0.55027779          0.46753563 0.52415230          0.61111111   1
## 4060          0.56688328          0.54417595 0.50472900          0.38888889   0
## 4061          0.43250416          0.40121575 0.34340471          0.27777778   0
## 4062          0.59051641          0.49006796 0.38718074          0.33333333   1
## 4063          0.60347596          0.62932761 0.60295183          0.61111111   1
## 4064          0.35115215          0.47044588 0.47990542          0.33333333   0
## 4065          0.13964477          0.08755901 0.26646286          0.33333333   1
## 4066          0.63631165          0.65544533 0.62089614          0.77777778   1
## 4067          0.46006260          0.35201398 0.43100530          0.72222222   0
## 4068          0.35299012          0.53437888 0.58377129          0.55555556   0
## 4069          0.53327819          0.54358213 0.47017205          0.27777778   0
## 4070          0.57714548          0.59079013 0.54431559          0.50000000   0
## 4071          0.59688188          0.60651337 0.56688829          0.61111111   1
## 4072          0.62348829          0.71429245 0.62363885          0.50000000   1
## 4073          0.44264536          0.34053271 0.39165402          0.38888889   0
## 4074          0.38977897          0.31675955 0.25269626          0.38888889   0
## 4075          0.45888133          0.53545313 0.35004408          0.44444444   0
## 4076          0.42402001          0.44664908 0.47532187          0.61111111   1
## 4077          0.43972771          0.43129133 0.41427156          0.44444444   0
## 4078          0.56473225          0.78678593 0.70481646          0.83333333   1
## 4079          0.61681301          0.59714209 0.57571297          0.50000000   0
## 4080          0.46135826          0.35340353 0.30050067          0.33333333   0
## 4081          0.64960291          0.67988177 0.69085228          0.72222222   1
## 4082          0.36494784          0.21135496 0.34279791          0.33333333   0
## 4083          0.64177144          0.62274834 0.73746708          0.88888889   1
## 4084          0.34855674          0.34908509 0.39598896          0.38888889   1
## 4085          0.53488001          0.59772053 0.59902848          0.72222222   1
## 4086          0.37232959          0.19925903 0.30963770          0.33333333   0
## 4087          0.43202800          0.43789288 0.49568059          0.72222222   1
## 4088          0.34093939          0.28209188 0.33346895          0.55555556   0
## 4089          0.56815904          0.62392940 0.74797229          0.83333333   1
## 4090          0.59236122          0.52991758 0.47640517          0.44444444   1
## 4091          0.51381778          0.61940911 0.52242774          0.66666667   1
## 4092          0.54227887          0.66582902 0.62425889          0.55555556   1
## 4093          0.48209836          0.38730232 0.34950330          0.38888889   0
## 4094          0.73760073          0.63654378 0.68875696          0.61111111   0
## 4095          0.66341094          0.72917356 0.73395030          0.83333333   1
## 4096          0.44217570          0.44994960 0.55462412          0.55555556   0
## 4097          0.58355273          0.64361091 0.49488793          0.27777778   1
## 4098          0.55376259          0.73311215 0.76044634          0.77777778   1
## 4099          0.44589511          0.41582811 0.43449384          0.50000000   0
## 4100          0.54878688          0.57809064 0.53148444          0.61111111   1
## 4101          0.38945060          0.39610007 0.44232914          0.72222222   1
## 4102          0.55683807          0.68905423 0.68198045          0.77777778   1
## 4103          0.52546527          0.55095309 0.53572737          0.61111111   0
## 4104          0.45768637          0.36198366 0.31988769          0.33333333   0
## 4105          0.71874055          0.71489302 0.66699183          0.77777778   1
## 4106          0.40295688          0.29356748 0.40823882          0.50000000   0
## 4107          0.44683597          0.48404252 0.33469321          0.33333333   0
## 4108          0.45223221          0.44358782 0.48069122          0.61111111   0
```

```
## 4109         0.38613751         0.41955127 0.38330435    0.61111111    1
## 4110         0.52894591         0.42310381 0.53590350    0.50000000    1
## 4111         0.57682951         0.57776236 0.61660601    0.55555556    1
## 4112         0.70617266         0.72577636 0.64194282    0.44444444    0
## 4113         0.48391396         0.51038210 0.50681148    0.55555556    1
## 4114         0.43074809         0.55923017 0.51244078    0.66666667    0
## 4115         0.62050751         0.62384890 0.59068519    0.61111111    0
## 4116         0.34077023         0.30165458 0.36232932    0.44444444    0
## 4117         0.41514748         0.37527206 0.31920781    0.27777778    0
## 4118         0.39406477         0.45338541 0.43315653    0.50000000    1
## 4119         0.54761203         0.52006547 0.53581544    0.55555556    0
## 4120         0.55750990         0.52465611 0.50635882    0.61111111    0
## 4121         0.34892911         0.41150010 0.40275418    0.44444444    1
## 4122         0.57167915         0.58088535 0.53926045    0.50000000    1
## 4123         0.55114538         0.56253004 0.56901951    0.66666667    1
## 4124         0.70994468         0.78942441 0.62195375    0.61111111    1
## 4125         0.42047030         0.35726890 0.45893875    0.50000000    0
## 4126         0.39221019         0.48082863 0.46491163    0.44444444    1
## 4127         0.39333445         0.45254967 0.29340875    0.33333333    0
## 4128         0.59605406         0.60797196 0.47850260    0.44444444    0
## 4129         0.62681739         0.59499300 0.68843366    0.72222222    1
## 4130         0.35788540         0.28372375 0.32479157    0.38888889    0
## 4131         0.67565966         0.79477906 0.55003930    0.55555556    0
## 4132         0.57684105         0.46874337 0.54370676    0.61111111    0
## 4133         0.52544925         0.63210384 0.66196788    0.72222222    1
## 4134         0.55417406         0.64895734 0.53934457    0.55555556    1
## 4135         0.47108000         0.30058661 0.37513962    0.44444444    0
## 4136         0.51242348         0.38470246 0.41953918    0.33333333    0
## 4137         0.53578645         0.43236996 0.45595844    0.50000000    0
## 4138         0.52502664         0.48971414 0.54910684    0.50000000    0
## 4139         0.47342545         0.53994744 0.51734741    0.55555556    1
## 4140         0.51726413         0.62383737 0.50284367    0.50000000    1
## 4141         0.59298534         0.43650360 0.59351048    0.61111111    1
## 4142         0.43380292         0.59027349 0.65593460    0.61111111    1
## 4143         0.52278856         0.51859505 0.57142505    0.61111111    1
## 4144         0.43751075         0.44946026 0.48721872    0.44444444    0
## 4145         0.43425346         0.47126605 0.48202136    0.27777778    0
## 4146         0.50731614         0.52512558 0.61769823    0.66666667    1
## 4147         0.56062896         0.66815306 0.47687443    0.27777778    1
## 4148         0.48411932         0.54499266 0.55951847    0.44444444    1
## 4149         0.49670503         0.52157866 0.47219118    0.27777778    0
## 4150         0.42649268         0.47872383 0.53478471    0.50000000    0
## 4151         0.44527837         0.36381413 0.50658937    0.55555556    0
## 4152         0.33176818         0.30724679 0.16044815    0.22222222    0
## 4153         0.34797673         0.34875228 0.40401112    0.44444444    1
## 4154         0.51407321         0.36697706 0.36511578    0.55555556    1
## 4155         0.39495718         0.49509359 0.54838759    0.72222222    1
## 4156         0.46137899         0.45373074 0.51549635    0.61111111    0
## 4157         0.67823521         0.80308675 0.65724099    0.50000000    1
## 4158         0.57230504         0.67679529 0.63266851    0.77777778    1
## 4159         0.65700842         0.63149106 0.66140129    0.66666667    0
## 4160         0.42980809         0.44932770 0.39176083    0.55555556    1
## 4161         0.63544885         0.55908834 0.65713567    0.66666667    1
## 4162         0.52347253         0.53857435 0.57104273    0.44444444    1
## 4163         0.70172253         0.83986851 0.62571332    0.61111111    1
## 4164         0.52071401         0.57485477 0.40236689    0.44444444    0
## 4165         0.44339861         0.48162720 0.43847383    0.38888889    1
## 4166         0.64598065         0.66008149 0.60962722    0.44444444    1
```

```
## 4167         0.60200124      0.61128275 0.69843717      0.72222222  1
## 4168         0.47033792      0.56463290 0.44350763      0.55555556  1
## 4169         0.58936370      0.61692227 0.62081839      0.50000000  1
## 4170         0.25996441      0.20078807 0.24942029      0.33333333  0
## 4171         0.43620501      0.39595336 0.33541449      0.27777778  0
## 4172         0.48774291      0.45913721 0.44255512      0.38888889  1
## 4173         0.69740728      0.78451419 0.59038219      0.55555556  1
## 4174         0.63270187      0.80684881 0.71655441      0.77777778  1
## 4175         0.49234377      0.44779617 0.37921045      0.44444444  0
## 4176         0.49752592      0.51400141 0.45074091      0.38888889  0
## 4177         0.55113574      0.57592261 0.46322151      0.50000000  0
## 4178         0.49317430      0.43771982 0.55810357      0.66666667  1
## 4179         0.42067681      0.43212779 0.49152528      0.55555556  1
## 4180         0.47157205      0.39040781 0.46285388      0.55555556  0
## 4181         0.62649340      0.55621887 0.44758212      0.50000000  0
## 4182         0.53888431      0.64387565 0.76443886      0.72222222  1
## 4183         0.41701662      0.53242477 0.29918108      0.44444444  0
## 4184         0.34780118      0.42656130 0.50089883      0.38888889  1
## 4185         0.54369918      0.38453886 0.38251447      0.38888889  0
## 4186         0.41468007      0.44299229 0.47761251      0.66666667  1
## 4187         0.54151511      0.49934242 0.44317676      0.55555556  1
## 4188         0.35359901      0.42359860 0.43743850      0.38888889  1
## 4189         0.63699399      0.73214667 0.51910323      0.55555556  1
## 4190         0.32281963      0.35712768 0.35785645      0.55555556  1
## 4191         0.65458511      0.58832398 0.66785370      0.66666667  0
## 4192         0.47089804      0.38229068 0.41884409      0.38888889  0
## 4193         0.49167302      0.52251247 0.59113225      0.55555556  1
## 4194         0.42518441      0.37791918 0.39034850      0.38888889  0
## 4195         0.53340236      0.59131190 0.45080648      0.50000000  0
## 4196         0.53441542      0.51166253 0.50211563      0.55555556  0
## 4197         0.66011758      0.73615757 0.69945590      0.66666667  1
## 4198         0.71313921      0.72868779 0.72074868      0.66666667  1
## 4199         0.44406295      0.42607693 0.46499543      0.50000000  1
## 4200         0.50327477      0.52287854 0.57352305      0.38888889  1
## 4201         0.28159368      0.30291506 0.39962996      0.44444444  0
## 4202         0.35843898      0.36208922 0.32408639      0.38888889  0
## 4203         0.67938425      0.73850448 0.67135982      0.77777778  1
## 4204         0.59260388      0.62529261 0.49784867      0.50000000  0
## 4205         0.60271428      0.66802493 0.67326310      0.66666667  1
## 4206         0.62803109      0.51480979 0.60490722      0.55555556  1
## 4207         0.68407623      0.70781237 0.51769957      0.61111111  1
## 4208         0.54513552      0.58102638 0.54224882      0.55555556  1
## 4209         0.44626264      0.31998722 0.38357449      0.38888889  0
## 4210         0.53872946      0.57965524 0.34846915      0.44444444  1
## 4211         0.43491105      0.45012088 0.49475818      0.44444444  0
## 4212         0.52529852      0.53627661 0.60154179      0.61111111  1
## 4213         0.52917622      0.49541688 0.37590247      0.38888889  0
## 4214         0.65897352      0.51101404 0.61865088      0.61111111  1
## 4215         0.58308282      0.48334047 0.49905637      0.50000000  1
## 4216         0.35571894      0.44807134 0.41303171      0.38888889  0
## 4217         0.66165056      0.78657804 0.54439548      0.50000000  1
## 4218         0.48220636      0.52556962 0.64012552      0.50000000  1
## 4219         0.47150047      0.65721299 0.50512023      0.55555556  1
## 4220         0.46522198      0.50609656 0.46262274      0.38888889  0
## 4221         0.56963491      0.51067936 0.49436275      0.27777778  0
## 4222         0.50964285      0.69062928 0.45318085      0.44444444  1
## 4223         0.53215731      0.48448704 0.43133605      0.50000000  1
## 4224         0.61997172      0.53960861 0.59269837      0.44444444  0
```

```
## 4225        0.50867222        0.55408689 0.59803667        0.77777778   0
## 4226        0.69898300        0.58756155 0.52822446        0.44444444   1
## 4227        0.56145454        0.51502705 0.59737715        0.72222222   0
## 4228        0.57405970        0.52139700 0.55256382        0.50000000   0
## 4229        0.50936595        0.57838831 0.47648083        0.44444444   1
## 4230        0.44438110        0.44685805 0.40550792        0.44444444   1
## 4231        0.58317519        0.59828255 0.60367208        0.61111111   1
## 4232        0.62360714        0.62802830 0.55260766        0.33333333   1
## 4233        0.48637551        0.48165798 0.51897692        0.61111111   0
## 4234        0.48768832        0.60759600 0.52345078        0.61111111   0
## 4235        0.59783437        0.54493374 0.56866522        0.38888889   1
## 4236        0.55814208        0.64092632 0.56394289        0.50000000   0
## 4237        0.44490068        0.41270385 0.41817064        0.44444444   0
## 4238        0.55442592        0.46149174 0.52028477        0.61111111   1
## 4239        0.52914668        0.58223900 0.52699618        0.66666667   1
## 4240        0.48794854        0.31466090 0.31063375        0.33333333   1
## 4241        0.53101195        0.56919788 0.45945187        0.55555556   1
## 4242        0.64248084        0.59694613 0.49717085        0.50000000   1
## 4243        0.41884371        0.41228289 0.30398932        0.38888889   0
## 4244        0.62273928        0.54288136 0.52784989        0.44444444   1
## 4245        0.56997742        0.79996470 0.63415658        0.55555556   1
## 4246        0.55286479        0.63008791 0.54525977        0.44444444   0
## 4247        0.48554404        0.44214847 0.61178146        0.66666667   1
## 4248        0.65168064        0.70065813 0.65868031        0.72222222   1
## 4249        0.47058459        0.55747035 0.44154812        0.50000000   0
## 4250        0.42606503        0.37793457 0.32231216        0.33333333   0
## 4251        0.32261053        0.22961935 0.24271481        0.33333333   0
## 4252        0.59930207        0.56483641 0.61168871        0.61111111   1
## 4253        0.50681263        0.50893595 0.38444214        0.44444444   0
## 4254        0.39306446        0.47322402 0.29439475        0.27777778   0
## 4255        0.72213119        0.42716344 0.44330773        0.44444444   0
## 4256        0.42577875        0.32961156 0.29518311        0.22222222   0
## 4257        0.58643284        0.45059085 0.48733636        0.38888889   0
## 4258        0.42056456        0.35066953 0.25365822        0.38888889   0
## 4259        0.48226495        0.36660982 0.33018491        0.38888889   0
## 4260        0.51469952        0.54012837 0.41984609        0.50000000   1
## 4261        0.38150582        0.33358205 0.35968997        0.44444444   0
## 4262        0.48272216        0.40468746 0.52434707        0.55555556   0
## 4263        0.48308081        0.45534664 0.40004306        0.27777778   0
## 4264        0.33405309        0.25248182 0.32294676        0.27777778   0
## 4265        0.42310202        0.31295339 0.26496180        0.38888889   0
## 4266        0.60766975        0.60848113 0.61501757        0.61111111   1
## 4267        0.63432181        0.71005242 0.60158394        0.55555556   1
## 4268        0.48327735        0.44924655 0.43444557        0.55555556   0
## 4269        0.60416456        0.71881670 0.53941034        0.55555556   1
## 4270        0.46584841        0.43667680 0.52390896        0.44444444   1
## 4271        0.36011872        0.53359948 0.62915847        0.55555556   0
## 4272        0.47264915        0.50645945 0.54787085        0.50000000   1
## 4273        0.55605686        0.70086633 0.69796017        0.61111111   1
## 4274        0.57057846        0.60856848 0.66296522        0.66666667   1
## 4275        0.49404494        0.37980101 0.38100482        0.55555556   0
## 4276        0.55158991        0.56803071 0.54709138        0.61111111   1
## 4277        0.38730259        0.40587781 0.34855275        0.33333333   0
## 4278        0.52154085        0.51435629 0.56510745        0.77777778   0
## 4279        0.50826025        0.41076599 0.41190212        0.50000000   1
## 4280        0.58377057        0.43738253 0.45891309        0.50000000   0
## 4281        0.43907333        0.50555444 0.40629730        0.61111111   0
## 4282        0.46874199        0.32364006 0.32262859        0.38888889   1
```

```
## 4283        0.44376587      0.41452583 0.43774430      0.44444444    0
## 4284        0.54543994      0.53903066 0.48934201      0.61111111    0
## 4285        0.54520269      0.56449122 0.54584872      0.50000000    1
## 4286        0.58913605      0.66394172 0.51341491      0.72222222    0
## 4287        0.41201690      0.52204944 0.64494183      0.66666667    1
## 4288        0.45473752      0.32921627 0.29929358      0.33333333    0
## 4289        0.55697760      0.53459102 0.62572415      0.61111111    1
## 4290        0.50683926      0.55201334 0.46767446      0.44444444    0
## 4291        0.37801670      0.24133918 0.40666765      0.55555556    1
## 4292        0.59794052      0.53890145 0.49767107      0.38888889    1
## 4293        0.47469372      0.38705693 0.37593567      0.38888889    0
## 4294        0.61906003      0.59648557 0.60056198      0.55555556    1
## 4295        0.43901921      0.39471247 0.42416217      0.38888889    0
## 4296        0.61654559      0.73765749 0.66865222      0.61111111    1
## 4297        0.50744644      0.48252623 0.42675138      0.55555556    0
## 4298        0.42555740      0.32177184 0.41928529      0.55555556    1
## 4299        0.53347779      0.48706384 0.58009959      0.50000000    1
## 4300        0.48170861      0.54339053 0.57445276      0.55555556    1
## 4301        0.39926587      0.34644026 0.31648532      0.44444444    0
## 4302        0.54634187      0.52406908 0.53664477      0.61111111    1
## 4303        0.47532887      0.43087615 0.44261346      0.44444444    1
## 4304        0.37747973      0.44839846 0.49176439      0.50000000    1
## 4305        0.42461515      0.35552005 0.40153771      0.38888889    1
## 4306        0.63063318      0.64976718 0.57795996      0.72222222    1
## 4307        0.42803697      0.50398341 0.42689028      0.66666667    1
## 4308        0.49654648      0.51021383 0.43600800      0.66666667    1
## 4309        0.46333300      0.43517931 0.47679978      0.55555556    0
## 4310        0.47854687      0.36236256 0.42823543      0.44444444    0
## 4311        0.43507705      0.28031763 0.43858492      0.33333333    0
## 4312        0.48831183      0.40579596 0.47503276      0.55555556    1
## 4313        0.35906764      0.32948219 0.50350134      0.66666667    0
## 4314        0.35355699      0.41109479 0.30277925      0.38888889    1
## 4315        0.52068315      0.47367240 0.41103097      0.55555556    1
## 4316        0.33464517      0.17595845 0.29029245      0.33333333    1
## 4317        0.50018418      0.28742644 0.55520463      0.61111111    0
## 4318        0.44899878      0.48031448 0.46916853      0.44444444    0
## 4319        0.50845342      0.54802511 0.58360553      0.50000000    0
## 4320        0.76066469      0.72725769 0.68214782      0.55555556    0
## 4321        0.59270264      0.42738693 0.49136476      0.61111111    1
## 4322        0.55923432      0.58122718 0.54069216      0.66666667    1
## 4323        0.54526425      0.48049500 0.47007159      0.55555556    1
## 4324        0.49534379      0.40471855 0.38205844      0.38888889    0
## 4325        0.33211416      0.48565778 0.57329964      0.55555556    1
## 4326        0.43093271      0.53536698 0.48529602      0.61111111    1
## 4327        0.47874829      0.55226809 0.57830238      0.72222222    1
## 4328        0.37117819      0.40471810 0.49744583      0.61111111    1
## 4329        0.63168653      0.77432223 0.69501600      0.55555556    1
## 4330        0.50912787      0.61210911 0.45624929      0.44444444    0
## 4331        0.55762041      0.51030367 0.56242893      0.55555556    1
## 4332        0.42504061      0.26480880 0.33981040      0.44444444    1
## 4333        0.58251517      0.72462061 0.63411613      0.66666667    1
## 4334        0.53253987      0.48630155 0.50369518      0.61111111    1
## 4335        0.34827496      0.43202863 0.43761063      0.33333333    1
## 4336        0.43609057      0.46871018 0.51836573      0.50000000    0
## 4337        0.51470187      0.67402933 0.46950466      0.61111111    0
## 4338        0.37780769      0.32880144 0.44599260      0.61111111    0
## 4339        0.44517151      0.39817178 0.46013729      0.50000000    1
## 4340        0.36240510      0.22698665 0.34251713      0.38888889    0
```

```
## 4341           0.56405880          0.47141067 0.50124333          0.50000000   1
## 4342           0.66963306          0.55483689 0.61249412          0.61111111   1
## 4343           0.52684820          0.41523814 0.40460362          0.38888889   0
## 4344           0.54841479          0.60010781 0.54233902          0.72222222   1
## 4345           0.66968262          0.58351874 0.49047980          0.55555556   0
## 4346           0.35669299          0.27149820 0.45288106          0.50000000   1
## 4347           0.50932370          0.44118616 0.50352636          0.50000000   1
## 4348           0.43621492          0.52622718 0.46894638          0.44444444   0
## 4349           0.48629660          0.56364450 0.49056884          0.50000000   1
## 4350           0.47601265          0.51405165 0.38785595          0.16666667   1
## 4351           0.69899503          0.75210605 0.55636984          0.61111111   0
## 4352           0.53622166          0.64311450 0.50792525          0.66666667   0
## 4353           0.56942833          0.56116179 0.51476066          0.61111111   1
## 4354           0.53302152          0.60864788 0.58957678          0.61111111   1
## 4355           0.43825485          0.47704018 0.52182214          0.38888889   1
## 4356           0.35270971          0.45515472 0.54136692          0.44444444   0
## 4357           0.35305545          0.31070467 0.28961960          0.44444444   0
## 4358           0.36107343          0.26153031 0.39728077          0.16666667   1
## 4359           0.44201732          0.31804279 0.34835605          0.33333333   1
## 4360           0.43329158          0.37142645 0.36348057          0.33333333   0
## 4361           0.49668485          0.59054968 0.51346440          0.44444444   0
## 4362           0.52882831          0.63836717 0.58744802          0.61111111   1
## 4363           0.42945221          0.44984089 0.50462822          0.61111111   0
## 4364           0.38921579          0.34764228 0.50139302          0.55555556   1
## 4365           0.52127641          0.46379675 0.55015501          0.66666667   1
## 4366           0.45480176          0.37192741 0.37871718          0.55555556   1
## 4367           0.57336239          0.52832301 0.51732050          0.55555556   0
## 4368           0.35552822          0.35357815 0.24953840          0.27777778   0
## 4369           0.45841936          0.52665584 0.50845919          0.50000000   1
## 4370           0.58632985          0.64973577 0.51128590          0.50000000   1
## 4371           0.38821468          0.39545231 0.33828067          0.33333333   1
## 4372           0.46838594          0.41426061 0.35938772          0.38888889   0
## 4373           0.52895133          0.52278341 0.51550788          0.61111111   0
## 4374           0.63261645          0.51908445 0.37257610          0.38888889   0
## 4375           0.52680270          0.41678535 0.44749864          0.44444444   0
## 4376           0.55265667          0.62613983 0.54888236          0.66666667   1
## 4377           0.52337839          0.62942883 0.59467005          0.55555556   1
## 4378           0.54060874          0.55717895 0.55380339          0.61111111   1
## 4379           0.55359483          0.56621041 0.54629911          0.55555556   1
## 4380           0.53774529          0.37946032 0.35245116          0.33333333   0
## 4381           0.29340172          0.31853219 0.38537629          0.50000000   0
## 4382           0.56187799          0.58496298 0.50920118          0.55555556   1
## 4383           0.37914185          0.29793777 0.26484606          0.27777778   0
## 4384           0.37159924          0.39652746 0.28504628          0.27777778   0
## 4385           0.48076061          0.48067433 0.43928538          0.38888889   1
## 4386           0.40674196          0.41440613 0.34364949          0.44444444   0
## 4387           0.44559917          0.28079677 0.39727450          0.50000000   0
## 4388           0.58839397          0.60308683 0.50423120          0.50000000   0
## 4389           0.56135587          0.59905068 0.53025437          0.50000000   1
## 4390           0.62977705          0.46052710 0.47926802          0.50000000   1
## 4391           0.40450242          0.21059921 0.23225390          0.33333333   0
## 4392           0.65432670          0.63761438 0.73449050          0.72222222   1
## 4393           0.53782661          0.42703986 0.53472021          0.50000000   0
## 4394           0.66741339          0.63991343 0.55087615          0.44444444   0
## 4395           0.54231726          0.37575919 0.36867911          0.38888889   0
## 4396           0.58582407          0.44970889 0.58851278          0.61111111   1
## 4397           0.63167050          0.68659413 0.64085088          0.55555556   1
## 4398           0.47666941          0.56829263 0.47515005          0.44444444   1
```

```
## 4399          0.44809958          0.54854318 0.53508634          0.66666667   1
## 4400          0.79311237          0.61611861 0.51961435          0.38888889   0
## 4401          0.48809774          0.58488109 0.53521396          0.38888889   0
## 4402          0.48143222          0.30174893 0.54348792          0.66666667   0
## 4403          0.55677546          0.69654870 0.63761155          0.72222222   1
## 4404          0.43825854          0.51507398 0.34698307          0.44444444   1
## 4405          0.48346853          0.51539335 0.40002017          0.38888889   0
## 4406          0.59552885          0.45446981 0.43730224          0.44444444   0
## 4407          0.54330794          0.58207613 0.52248282          0.55555556   0
## 4408          0.60615988          0.52479984 0.58933337          0.72222222   1
## 4409          0.49063843          0.50025310 0.49051228          0.38888889   1
## 4410          0.61490545          0.52543192 0.43634122          0.50000000   0
## 4411          0.51581294          0.42936864 0.53933036          0.66666667   1
## 4412          0.51613882          0.52808095 0.50928887          0.44444444   1
## 4413          0.55319428          0.51644020 0.39938649          0.44444444   0
## 4414          0.50575389          0.55032836 0.58377683          0.61111111   1
## 4415          0.58695530          0.32624080 0.41089167          0.50000000   0
## 4416          0.58263766          0.49664283 0.64187098          0.55555556   0
## 4417          0.49649789          0.56636176 0.49395183          0.38888889   0
## 4418          0.50975062          0.67666671 0.53555570          0.55555556   1
## 4419          0.38590435          0.29885189 0.38959985          0.38888889   1
## 4420          0.52593139          0.36488224 0.49603585          0.33333333   0
## 4421          0.66316105          0.84591458 0.57189943          0.66666667   1
## 4422          0.46736258          0.49816309 0.42000084          0.55555556   1
## 4423          0.65736989          0.80341300 0.62903865          0.66666667   1
## 4424          0.48567969          0.57189720 0.58928046          0.61111111   1
## 4425          0.57539327          0.47002418 0.50703368          0.61111111   1
## 4426          0.51054375          0.49232106 0.49859071          0.44444444   1
## 4427          0.56756304          0.44600420 0.54497643          0.55555556   1
## 4428          0.58861621          0.64131174 0.53067775          0.55555556   0
## 4429          0.36421229          0.27305086 0.27007193          0.33333333   0
## 4430          0.49208902          0.48762433 0.63501823          0.72222222   1
## 4431          0.44124690          0.33566316 0.37545375          0.38888889   0
## 4432          0.43221831          0.42322873 0.38089281          0.38888889   0
## 4433          0.64644577          0.62326865 0.56971652          0.55555556   1
## 4434          0.49095673          0.61555588 0.54079145          0.55555556   1
## 4435          0.41504495          0.43155964 0.41708298          0.33333333   0
## 4436          0.50723228          0.55690640 0.55007358          0.44444444   1
## 4437          0.32554778          0.21631993 0.36898179          0.61111111   0
## 4438          0.37864724          0.49000266 0.42382161          0.50000000   0
## 4439          0.55333378          0.52031937 0.47478663          0.55555556   0
## 4440          0.42906512          0.37244936 0.29347227          0.44444444   0
## 4441          0.65178821          0.70447686 0.60468705          0.50000000   1
## 4442          0.56370888          0.50068583 0.50787487          0.61111111   1
## 4443          0.41383899          0.40062465 0.28860588          0.33333333   0
## 4444          0.59824560          0.73307342 0.60742276          0.55555556   1
## 4445          0.55731480          0.39707378 0.52445091          0.50000000   1
## 4446          0.57136486          0.52696711 0.44793354          0.55555556   0
## 4447          0.36238986          0.38640099 0.45099889          0.50000000   0
## 4448          0.40046975          0.36883146 0.33719921          0.33333333   0
## 4449          0.36547030          0.38673314 0.49163735          0.50000000   0
## 4450          0.45699475          0.38642740 0.31847246          0.55555556   0
## 4451          0.54567265          0.58584903 0.62707419          0.66666667   1
## 4452          0.58670833          0.58795231 0.52837295          0.50000000   1
## 4453          0.50415519          0.50381068 0.61545630          0.61111111   1
## 4454          0.56791967          0.61731501 0.41358416          0.50000000   1
## 4455          0.50017062          0.35354292 0.34629552          0.33333333   0
## 4456          0.47207641          0.38635768 0.54608573          0.50000000   1
```

```
## 4457          0.53547085          0.41379096 0.42872344          0.33333333   0
## 4458          0.53442605          0.50446180 0.48245577          0.38888889   1
## 4459          0.46861552          0.46252068 0.49640990          0.66666667   0
## 4460          0.59063894          0.49272050 0.38936525          0.44444444   1
## 4461          0.41182352          0.53819282 0.45807799          0.61111111   0
## 4462          0.54976685          0.63709770 0.59210520          0.61111111   1
## 4463          0.53276483          0.47416912 0.45401138          0.61111111   1
## 4464          0.53631457          0.46304941 0.54994577          0.50000000   0
## 4465          0.50727581          0.59282114 0.44738102          0.55555556   1
## 4466          0.51316906          0.56856220 0.58058073          0.66666667   1
## 4467          0.60572290          0.56992799 0.50295973          0.55555556   1
## 4468          0.44604615          0.42739234 0.52087270          0.55555556   0
## 4469          0.45397699          0.41823891 0.38980656          0.44444444   0
## 4470          0.52744292          0.48209189 0.40899687          0.22222222   0
## 4471          0.41105190          0.43784102 0.48404768          0.33333333   1
## 4472          0.63188230          0.45648422 0.42284924          0.50000000   0
## 4473          0.38061429          0.46182727 0.41621485          0.44444444   1
## 4474          0.45010438          0.51476355 0.54652334          0.66666667   0
## 4475          0.49354209          0.46421963 0.47383294          0.66666667   0
## 4476          0.53283398          0.64769010 0.50258097          0.33333333   1
## 4477          0.55544313          0.66011724 0.51981166          0.55555556   1
## 4478          0.55437467          0.57939132 0.53273495          0.66666667   1
## 4479          0.38450405          0.52988656 0.45549630          0.44444444   1
## 4480          0.35773071          0.50234779 0.45310275          0.44444444   1
## 4481          0.59097414          0.71468941 0.60662462          0.55555556   1
## 4482          0.54378719          0.33479495 0.38972759          0.33333333   1
## 4483          0.52368201          0.69876513 0.53038452          0.50000000   1
## 4484          0.54048647          0.42087050 0.41587725          0.38888889   0
## 4485          0.69951162          0.82309145 0.80093789          0.83333333   1
## 4486          0.57315333          0.61083769 0.64237113          0.61111111   0
## 4487          0.40210941          0.58146154 0.58492138          0.55555556   0
## 4488          0.47605823          0.55538170 0.61450567          0.50000000   1
## 4489          0.52277202          0.48434041 0.63831883          0.66666667   1
## 4490          0.41285518          0.39201295 0.40338015          0.55555556   0
## 4491          0.66879439          0.56367335 0.71164713          0.72222222   1
## 4492          0.42543415          0.43136254 0.32326760          0.55555556   0
## 4493          0.49733530          0.54683158 0.56146509          0.55555556   0
## 4494          0.45956254          0.55174245 0.55720558          0.61111111   1
## 4495          0.45509326          0.53668896 0.52415230          0.44444444   1
## 4496          0.57380698          0.62359431 0.57656680          0.66666667   1
## 4497          0.46432804          0.48573392 0.43006753          0.33333333   0
## 4498          0.71118047          0.66971037 0.55113981          0.50000000   1
## 4499          0.48928216          0.49076314 0.45602300          0.44444444   0
## 4500          0.56214638          0.50187558 0.49896583          0.50000000   0
## 4501          0.60032540          0.76498543 0.73817965          0.61111111   1
## 4502          0.63178794          0.59750588 0.54119428          0.50000000   1
## 4503          0.32591294          0.43567268 0.59990960          0.55555556   1
## 4504          0.38352596          0.31331604 0.35610293          0.38888889   0
## 4505          0.55208701          0.49783107 0.41922836          0.55555556   1
## 4506          0.51228391          0.56683330 0.54398983          0.38888889   0
## 4507          0.35223463          0.41422168 0.36876790          0.44444444   0
## 4508          0.43170973          0.44989825 0.48095646          0.72222222   0
## 4509          0.36576102          0.41837115 0.36609284          0.38888889   0
## 4510          0.32407970          0.28923773 0.34642981          0.55555556   0
## 4511          0.58837706          0.66939653 0.49968600          0.50000000   0
## 4512          0.42980600          0.39410844 0.45979701          0.50000000   0
## 4513          0.45840904          0.47513178 0.53962282          0.55555556   0
## 4514          0.52305444          0.40851775 0.43915518          0.50000000   0
```

```
## 4515          0.50489797          0.54671642 0.58440544          0.38888889   1
## 4516          0.47280118          0.46519994 0.36929120          0.44444444   1
## 4517          0.50796283          0.39549654 0.40221955          0.55555556   0
## 4518          0.46396506          0.47181977 0.51401445          0.55555556   1
## 4519          0.52456766          0.56277947 0.52819299          0.44444444   1
## 4520          0.46336541          0.42421399 0.42239084          0.38888889   0
## 4521          0.49877342          0.51163067 0.50583607          0.38888889   0
## 4522          0.51574217          0.57176157 0.55327619          0.66666667   0
## 4523          0.36221508          0.34122637 0.33235996          0.27777778   0
## 4524          0.62004132          0.56599162 0.46106508          0.50000000   0
## 4525          0.43625248          0.33308313 0.36850056          0.33333333   0
## 4526          0.56564703          0.56911478 0.52254686          0.50000000   0
## 4527          0.50088520          0.54907556 0.45178034          0.38888889   1
## 4528          0.64639400          0.70282230 0.47524750          0.44444444   1
## 4529          0.40145822          0.40680991 0.40261415          0.38888889   0
## 4530          0.42931139          0.41446064 0.41890613          0.50000000   0
## 4531          0.46220485          0.61484570 0.58515530          0.50000000   1
## 4532          0.53996156          0.47913970 0.47867908          0.61111111   0
## 4533          0.50067567          0.52065593 0.50614506          0.50000000   1
## 4534          0.58100918          0.61985225 0.55391509          0.50000000   1
## 4535          0.57556779          0.63494456 0.58326780          0.77777778   1
## 4536          0.42829052          0.36858750 0.45880073          0.61111111   0
## 4537          0.62056155          0.59926616 0.49116338          0.38888889   0
## 4538          0.51075920          0.47416830 0.47836753          0.61111111   1
## 4539          0.47471496          0.67246143 0.50593034          0.61111111   1
## 4540          0.53369880          0.45952106 0.36856438          0.72222222   1
## 4541          0.58365587          0.52308617 0.43150659          0.55555556   0
## 4542          0.62352114          0.53481326 0.58927253          0.61111111   1
## 4543          0.49767513          0.45576621 0.41133255          0.50000000   1
## 4544          0.39914857          0.26754254 0.50400348          0.55555556   1
## 4545          0.66208087          0.65739824 0.80521799          0.88888889   1
## 4546          0.61842254          0.53300197 0.52708375          0.55555556   1
## 4547          0.49006811          0.46186019 0.42025375          0.33333333   0
## 4548          0.44579570          0.54954112 0.57675075          0.55555556   1
## 4549          0.51006839          0.47645459 0.37883211          0.38888889   0
## 4550          0.53736273          0.57651822 0.52741891          0.61111111   1
## 4551          0.43473679          0.33609308 0.37528565          0.33333333   0
## 4552          0.43082330          0.40919932 0.34845981          0.44444444   0
## 4553          0.42847774          0.39199641 0.47988227          0.44444444   1
## 4554          0.39223731          0.37410526 0.40820933          0.44444444   0
## 4555          0.49716887          0.46003669 0.46238716          0.61111111   0
## 4556          0.39050871          0.33930540 0.33482019          0.50000000   0
## 4557          0.51357049          0.52376377 0.56842372          0.50000000   1
## 4558          0.52139017          0.54926780 0.63399674          0.55555556   1
## 4559          0.41684339          0.36049063 0.35036977          0.27777778   0
## 4560          0.45232470          0.28885572 0.29475415          0.22222222   0
## 4561          0.51430851          0.45321982 0.36051891          0.38888889   0
## 4562          0.44096858          0.40072448 0.47871963          0.61111111   0
## 4563          0.59184793          0.65363105 0.60578447          0.61111111   1
## 4564          0.63535506          0.50012726 0.54386480          0.55555556   1
## 4565          0.47243065          0.42901136 0.41769220          0.44444444   0
## 4566          0.63652934          0.61548873 0.57770278          0.50000000   0
## 4567          0.53552662          0.61218256 0.48508647          0.50000000   1
## 4568          0.52303307          0.64232678 0.62484580          0.66666667   0
## 4569          0.59275268          0.51620415 0.63279295          0.61111111   0
## 4570          0.46974301          0.36125331 0.44095655          0.38888889   0
## 4571          0.63316476          0.63859680 0.60925416          0.66666667   1
## 4572          0.47692500          0.62511696 0.52563659          0.44444444   1
```

```
## 4573       0.63404864       0.64033794 0.61322782       0.61111111   1
## 4574       0.43596091       0.50907023 0.45397376       0.38888889   1
## 4575       0.62477812       0.57133225 0.56752276       0.55555556   1
## 4576       0.49656596       0.49403833 0.48768307       0.50000000   0
## 4577       0.54417035       0.56641356 0.49543631       0.61111111   1
## 4578       0.55195702       0.70356287 0.68095373       0.83333333   1
## 4579       0.51823042       0.57927645 0.63252581       0.72222222   1
## 4580       0.50816182       0.53470127 0.54281198       0.61111111   1
## 4581       0.40755230       0.30527943 0.36661155       0.50000000   0
## 4582       0.39753209       0.44382938 0.41932670       0.38888889   0
## 4583       0.57139468       0.59816179 0.43981304       0.66666667   0
## 4584       0.55125542       0.41415551 0.37600296       0.27777778   0
## 4585       0.57645612       0.61737574 0.50784503       0.44444444   1
## 4586       0.48472416       0.52175820 0.45602300       0.27777778   0
## 4587       0.34276482       0.40530428 0.36681222       0.44444444   0
## 4588       0.58246877       0.51938423 0.53780658       0.55555556   1
## 4589       0.54274947       0.57061723 0.49155127       0.44444444   1
## 4590       0.54424471       0.59339281 0.59931405       0.88888889   1
## 4591       0.57123212       0.55012118 0.51380000       0.61111111   1
## 4592       0.59308449       0.67274887 0.68985582       0.66666667   0
## 4593       0.44930881       0.52996016 0.59557570       0.55555556   1
## 4594       0.53713494       0.55803151 0.50373859       0.55555556   0
## 4595       0.37997507       0.37069957 0.44446104       0.44444444   0
## 4596       0.42324291       0.51253558 0.50354661       0.50000000   1
## 4597       0.71218190       0.65983190 0.52396231       0.61111111   0
## 4598       0.61966982       0.69755507 0.57384482       0.50000000   0
## 4599       0.61853572       0.69794086 0.53115465       0.66666667   0
## 4600       0.43893661       0.36671828 0.26345808       0.33333333   0
## 4601       0.54600083       0.54186980 0.44868633       0.33333333   0
## 4602       0.39541202       0.37238749 0.40550792       0.33333333   0
## 4603       0.42600133       0.36645601 0.40859393       0.38888889   0
## 4604       0.71864720       0.81917279 0.71034326       0.77777778   1
## 4605       0.54499299       0.50451924 0.52256615       0.77777778   0
## 4606       0.67666773       0.71084705 0.56950695       0.38888889   0
## 4607       0.60840486       0.46834086 0.50729055       0.55555556   1
## 4608       0.45499788       0.43493365 0.40663505       0.55555556   0
## 4609       0.53059038       0.53749519 0.55071907       0.61111111   1
## 4610       0.38470022       0.22114804 0.23936804       0.27777778   0
## 4611       0.58470544       0.58587818 0.54851716       0.55555556   1
## 4612       0.55557541       0.74189652 0.65360304       0.66666667   1
## 4613       0.61108646       0.50561341 0.41955119       0.50000000   0
## 4614       0.49077797       0.39115710 0.44329995       0.61111111   0
## 4615       0.46529089       0.33594309 0.31739039       0.16666667   0
## 4616       0.62008207       0.64518477 0.64543847       0.50000000   1
## 4617       0.49700523       0.52421534 0.52029395       0.66666667   0
## 4618       0.30331050       0.29566090 0.36142847       0.11111111   0
## 4619       0.65463449       0.58258181 0.58007439       0.44444444   0
## 4620       0.35442400       0.39707926 0.39458828       0.55555556   0
## 4621       0.52386390       0.50709213 0.56774944       0.50000000   0
## 4622       0.45562236       0.42915341 0.46416632       0.38888889   0
## 4623       0.68028474       0.74426123 0.70858696       0.77777778   1
## 4624       0.49962884       0.48211812 0.58822821       0.61111111   1
## 4625       0.32657467       0.23908713 0.28314918       0.44444444   0
## 4626       0.55599615       0.51449981 0.55932816       0.50000000   1
## 4627       0.55199555       0.51769218 0.57905988       0.55555556   1
## 4628       0.44911528       0.37323365 0.49859205       0.44444444   1
## 4629       0.47774673       0.58539220 0.54215514       0.55555556   1
## 4630       0.51596739       0.42935300 0.48925129       0.44444444   0
```

615

```
## 4631          0.49807678         0.44202589 0.44154007          0.50000000   0
## 4632          0.63255762         0.47391542 0.53350178          0.50000000   1
## 4633          0.52971050         0.40065366 0.45743771          0.50000000   0
## 4634          0.39215178         0.27989796 0.40780732          0.50000000   1
## 4635          0.53177396         0.48664147 0.50950979          0.50000000   1
## 4636          0.52962319         0.57945088 0.51163120          0.44444444   1
## 4637          0.46053707         0.40059838 0.46055396          0.50000000   1
## 4638          0.55666001         0.43010883 0.53449222          0.66666667   0
## 4639          0.50691894         0.43656379 0.37973697          0.72222222   0
## 4640          0.44618654         0.40659985 0.42257116          0.33333333   0
## 4641          0.46415353         0.45202261 0.48005383          0.55555556   0
## 4642          0.37043862         0.32680405 0.38999521          0.50000000   0
## 4643          0.58125511         0.46549717 0.53984670          0.66666667   1
## 4644          0.55506604         0.59066978 0.52429232          0.50000000   0
## 4645          0.49971474         0.60483888 0.54545499          0.61111111   1
## 4646          0.56709579         0.62253548 0.67635098          0.55555556   1
## 4647          0.47317467         0.54176610 0.55539780          0.38888889   0
## 4648          0.53855183         0.49260484 0.38074741          0.33333333   0
## 4649          0.38701683         0.27302017 0.42806288          0.50000000   1
## 4650          0.57311315         0.67716683 0.59458030          0.55555556   1
## 4651          0.48016483         0.50123198 0.53889659          0.66666667   1
## 4652          0.48268866         0.39811284 0.45310407          0.55555556   0
## 4653          0.54400107         0.64813068 0.57546099          0.50000000   0
## 4654          0.47608666         0.35212003 0.51620810          0.55555556   0
## 4655          0.49837308         0.38459557 0.46006391          0.50000000   0
## 4656          0.50094092         0.45802472 0.52178277          0.55555556   0
## 4657          0.49631102         0.51049529 0.40711860          0.55555556   1
## 4658          0.39852453         0.12861941 0.26190264          0.38888889   0
## 4659          0.50493203         0.62324154 0.57417813          0.50000000   1
## 4660          0.73453195         0.92279694 0.72996715          0.61111111   0
## 4661          0.44881093         0.47547634 0.40650045          0.61111111   0
## 4662          0.47707471         0.63431101 0.55389345          0.72222222   1
## 4663          0.45441610         0.51900852 0.50009407          0.50000000   1
## 4664          0.52927903         0.56748425 0.53159341          0.50000000   0
## 4665          0.51992700         0.52372729 0.52306714          0.50000000   1
## 4666          0.51199355         0.48391252 0.41660759          0.38888889   0
## 4667          0.50635651         0.47946496 0.47770181          0.55555556   1
## 4668          0.49506313         0.50683678 0.45587837          0.33333333   0
## 4669          0.49477328         0.44989345 0.43524119          0.50000000   0
## 4670          0.42270315         0.42172699 0.39389210          0.50000000   0
## 4671          0.54523419         0.50268480 0.50955067          0.50000000   1
## 4672          0.54108723         0.61811111 0.54245588          0.72222222   1
## 4673          0.30344431         0.20497468 0.34568788          0.44444444   1
## 4674          0.62054694         0.73657227 0.61803267          0.61111111   1
## 4675          0.58869410         0.54665453 0.48265571          0.38888889   0
## 4676          0.58380451         0.63286956 0.73935199          0.66666667   1
## 4677          0.37079323         0.35087966 0.35755271          0.33333333   1
## 4678          0.53071292         0.45824038 0.38820824          0.55555556   1
## 4679          0.45165214         0.50911194 0.46167447          0.66666667   1
## 4680          0.54737404         0.66427973 0.52306714          0.38888889   0
## 4681          0.40993711         0.53989423 0.51270878          0.55555556   1
## 4682          0.64869962         0.61449277 0.57955495          0.66666667   1
## 4683          0.55153089         0.48187261 0.38259721          0.38888889   0
## 4684          0.44643693         0.35724654 0.51123787          0.55555556   1
## 4685          0.69825767         0.75477411 0.67209695          0.61111111   1
## 4686          0.54573606         0.50970059 0.51790124          0.61111111   1
## 4687          0.52459869         0.57160748 0.46553990          0.33333333   0
## 4688          0.38087043         0.62725739 0.55419640          0.61111111   0
```

616

```
## 4689        0.36144554        0.29727937 0.18623582        0.33333333        0
## 4690        0.31430029        0.14729537 0.20375554        0.16666667        0
## 4691        0.57643037        0.77246436 0.73601495        0.66666667        0
## 4692        0.60351663        0.67830905 0.64046909        0.50000000        0
## 4693        0.66131437        0.46241422 0.44777589        0.55555556        1
## 4694        0.55767605        0.47887660 0.55402490        0.38888889        0
## 4695        0.45192675        0.44357385 0.35915251        0.38888889        0
## 4696        0.38903257        0.30784257 0.38286131        0.44444444        1
## 4697        0.61932251        0.68869970 0.62434123        0.66666667        1
## 4698        0.44612250        0.49888737 0.51028340        0.55555556        1
## 4699        0.63765788        0.82705914 0.69480264        0.72222222        1
## 4700        0.64897783        0.61444134 0.48508647        0.38888889        1
## 4701        0.60053555        0.72525020 0.65977852        0.66666667        1
## 4702        0.39842993        0.38814648 0.29201235        0.33333333        0
## 4703        0.60106416        0.56816673 0.52935676        0.38888889        0
## 4704        0.44113875        0.50640664 0.46039644        0.55555556        1
## 4705        0.51183349        0.52973760 0.57183108        0.61111111        1
## 4706        0.59498976        0.61281538 0.49634869        0.55555556        1
## 4707        0.50450615        0.51471604 0.54443848        0.61111111        0
## 4708        0.36284259        0.28095050 0.42869715        0.33333333        0
## 4709        0.43087906        0.41388196 0.47034704        0.27777778        0
## 4710        0.53143395        0.50073035 0.43752228        0.33333333        0
## 4711        0.55904644        0.57188035 0.54245636        0.61111111        1
## 4712        0.48422839        0.48299625 0.50958102        0.38888889        1
## 4713        0.61726266        0.71739728 0.72587896        0.61111111        1
## 4714        0.43982567        0.49251415 0.53388492        0.66666667        1
## 4715        0.53981662        0.50874538 0.50513400        0.50000000        1
## 4716        0.38834082        0.32567123 0.41756528        0.61111111        0
## 4717        0.43970245        0.35213297 0.33392978        0.22222222        0
## 4718        0.67686515        0.58949510 0.57615124        0.61111111        1
## 4719        0.54810071        0.61908170 0.49306176        0.72222222        1
## 4720        0.51404895        0.58073002 0.51027465        0.61111111        1
## 4721        0.45050045        0.19974880 0.21374652        0.22222222        0
## 4722        0.44220110        0.52869171 0.61985659        0.72222222        1
## 4723        0.34678059        0.48024628 0.59184295        0.50000000        0
## 4724        0.51318131        0.27747376 0.25077494        0.22222222        1
## 4725        0.28037980        0.08184870 0.23899472        0.33333333        0
## 4726        0.57783485        0.56789172 0.63215716        0.61111111        1
## 4727        0.81219641        0.72445075 0.56025049        0.44444444        0
## 4728        0.48441614        0.38602601 0.41470421        0.50000000        0
## 4729        0.68247175        0.79328199 0.83230853        0.83333333        1
## 4730        0.25505548        0.23883743 0.18006568        0.22222222        0
## 4731        0.49872843        0.58882761 0.52476657        0.61111111        1
## 4732        0.52113794        0.39839300 0.55829366        0.61111111        1
## 4733        0.71603576        0.67854486 0.58965230        0.61111111        1
## 4734        0.63933197        0.66496989 0.58358516        0.61111111        0
## 4735        0.37290813        0.17985817 0.29974768        0.33333333        0
## 4736        0.32596734        0.02231763 0.16105557        0.16666667        0
## 4737        0.32613209        0.48698916 0.41813749        0.44444444        0
## 4738        0.51540587        0.49014517 0.45884701        0.50000000        0
## 4739        0.33144272        0.32094655 0.24777066        0.33333333        0
## 4740        0.62431865        0.54464886 0.48449069        0.61111111        1
## 4741        0.47285257        0.65996283 0.57961614        0.55555556        1
## 4742        0.54607253        0.41254155 0.36437843        0.27777778        0
## 4743        0.35995858        0.30148841 0.27553270        0.44444444        0
## 4744        0.47259625        0.44635508 0.38942538        0.50000000        0
## 4745        0.58781320        0.73336757 0.65388945        0.61111111        0
## 4746        0.42294747        0.46879135 0.46909461        0.38888889        0
```

```
## 4747          0.57498512          0.59159829 0.60672617          0.55555556   1
## 4748          0.50427143          0.49559095 0.48759759          0.50000000   0
## 4749          0.37778161          0.38687412 0.31194177          0.38888889   0
## 4750          0.48993797          0.61869340 0.60182202          0.61111111   1
## 4751          0.46378287          0.52603578 0.54137343          0.66666667   1
## 4752          0.46457373          0.45021640 0.37634181          0.44444444   1
## 4753          0.50231972          0.57146830 0.55625333          0.72222222   1
## 4754          0.60708094          0.46973952 0.31237436          0.38888889   0
## 4755          0.35067432          0.14482607 0.17653437          0.22222222   0
## 4756          0.69753008          0.53628545 0.59862974          0.44444444   0
## 4757          0.64800422          0.68078453 0.73342072          0.83333333   1
## 4758          0.41089620          0.44188545 0.41287129          0.55555556   1
## 4759          0.35611955          0.43012562 0.45642909          0.50000000   0
## 4760          0.29890654          0.20693321 0.31773743          0.44444444   0
## 4761          0.63704740          0.70978787 0.71812042          0.72222222   1
## 4762          0.34935044          0.45488859 0.42325127          0.50000000   0
## 4763          0.54494991          0.56916388 0.55494873          0.55555556   1
## 4764          0.52536596          0.52520157 0.57389877          0.61111111   1
## 4765          0.38247797          0.43223108 0.39724426          0.38888889   0
## 4766          0.66245488          0.53261236 0.41386703          0.50000000   0
## 4767          0.50739856          0.55392390 0.57999388          0.50000000   1
## 4768          0.55465427          0.60933667 0.65171135          0.61111111   1
## 4769          0.53998391          0.58304219 0.53487546          0.66666667   1
## 4770          0.47284480          0.56697673 0.63393617          0.61111111   1
## 4771          0.65609775          0.74335858 0.51643560          0.44444444   0
## 4772          0.25141982          0.29933086 0.20859045          0.33333333   0
## 4773          0.38025424          0.36174015 0.27459969          0.50000000   0
## 4774          0.51485181          0.43592006 0.46605365          0.55555556   0
## 4775          0.49349180          0.23854498 0.31481357          0.27777778   0
## 4776          0.46057872          0.50869629 0.45749912          0.50000000   0
## 4777          0.30471176          0.33399353 0.32346659          0.38888889   0
## 4778          0.52259051          0.50817515 0.56396940          0.44444444   1
## 4779          0.49455857          0.50464291 0.51061932          0.55555556   1
## 4780          0.60985152          0.70888594 0.64161249          0.55555556   1
## 4781          0.49444621          0.49001723 0.58591560          0.55555556   1
## 4782          0.44147926          0.41065777 0.43098378          0.44444444   0
## 4783          0.47366453          0.49186148 0.49108699          0.44444444   0
## 4784          0.41126991          0.41455026 0.37264829          0.50000000   0
## 4785          0.57114089          0.61888914 0.47158223          0.50000000   0
## 4786          0.49181780          0.58571914 0.54394978          0.61111111   1
## 4787          0.52172118          0.56835974 0.48422116          0.55555556   1
## 4788          0.41978487          0.43411536 0.51373571          0.44444444   0
## 4789          0.47638716          0.55542119 0.51959579          0.44444444   0
## 4790          0.49671824          0.56508647 0.57479320          0.55555556   1
## 4791          0.57383205          0.53118009 0.66489633          0.72222222   1
## 4792          0.42772292          0.56210643 0.41426424          0.33333333   0
## 4793          0.57953007          0.35450421 0.39108431          0.44444444   0
## 4794          0.47151967          0.45044581 0.49560419          0.44444444   0
## 4795          0.56616105          0.68214107 0.54668990          0.44444444   1
## 4796          0.51114522          0.56973990 0.61099430          0.83333333   1
## 4797          0.53365055          0.61085114 0.62376461          0.61111111   1
## 4798          0.56301221          0.52778381 0.48706538          0.27777778   1
## 4799          0.38085057          0.32353558 0.35516249          0.50000000   1
## 4800          0.46972225          0.61954438 0.54478942          0.55555556   0
## 4801          0.48555155          0.25997639 0.37114446          0.38888889   0
## 4802          0.47391299          0.44794838 0.38734600          0.44444444   0
## 4803          0.64663156          0.70382803 0.58404787          0.72222222   1
## 4804          0.46068326          0.44752061 0.25244527          0.38888889   0
```

```
## 4805          0.43835830          0.35974119 0.30256824          0.38888889   0
## 4806          0.50952263          0.41411008 0.50098536          0.50000000   0
## 4807          0.61568489          0.70217708 0.74062822          0.88888889   1
## 4808          0.58341017          0.52113200 0.43467472          0.61111111   0
## 4809          0.58671532          0.65214777 0.58575030          0.50000000   1
## 4810          0.39188414          0.57811617 0.56360066          0.38888889   0
## 4811          0.52004575          0.65708561 0.56207979          0.50000000   1
## 4812          0.43098654          0.33020287 0.39743168          0.55555556   0
## 4813          0.65286022          0.59563756 0.47767561          0.50000000   1
## 4814          0.66407320          0.69699033 0.45642181          0.44444444   1
## 4815          0.54437920          0.69516297 0.55954227          0.50000000   1
## 4816          0.43295322          0.41922777 0.44499728          0.38888889   0
## 4817          0.50084770          0.47909669 0.43520191          0.44444444   0
## 4818          0.49512456          0.44405155 0.45883255          0.66666667   1
## 4819          0.48028329          0.45005722 0.40353973          0.44444444   0
## 4820          0.38506114          0.29226054 0.32806911          0.33333333   0
## 4821          0.40494035          0.30562835 0.39393286          0.27777778   0
## 4822          0.53808248          0.60328969 0.64672953          0.72222222   0
## 4823          0.47904508          0.62047460 0.60938685          0.50000000   0
## 4824          0.56730500          0.53933491 0.48252777          0.44444444   0
## 4825          0.54553880          0.48028276 0.42770442          0.38888889   0
## 4826          0.43931973          0.47177312 0.35035813          0.44444444   0
## 4827          0.49062417          0.48591979 0.37236778          0.38888889   0
## 4828          0.51784880          0.46113021 0.42893649          0.61111111   1
## 4829          0.46686892          0.43385390 0.29539465          0.38888889   1
## 4830          0.67259107          0.70265118 0.61724092          0.61111111   1
## 4831          0.55803126          0.64533150 0.52641877          0.50000000   0
## 4832          0.43093255          0.31384446 0.29082960          0.50000000   1
## 4833          0.47264334          0.35329387 0.41832333          0.38888889   0
## 4834          0.32094973          0.33280068 0.44721917          0.50000000   0
## 4835          0.46391235          0.39858024 0.29691761          0.33333333   1
## 4836          0.54375000          0.41648034 0.49425144          0.33333333   0
## 4837          0.39676506          0.56336935 0.72002785          0.61111111   1
## 4838          0.67690494          0.71719457 0.68040010          0.44444444   0
## 4839          0.36073223          0.40957779 0.37543792          0.38888889   0
## 4840          0.46091083          0.57337722 0.62564011          0.38888889   0
## 4841          0.64161070          0.73594052 0.54822317          0.44444444   0
## 4842          0.50035127          0.33300522 0.35207480          0.38888889   0
## 4843          0.49834831          0.35375615 0.38943145          0.44444444   0
## 4844          0.64002981          0.59815648 0.54137343          0.50000000   1
## 4845          0.65529824          0.65578500 0.57508488          0.50000000   1
## 4846          0.54741464          0.52895239 0.49661760          0.50000000   0
## 4847          0.43257210          0.54550981 0.49772505          0.55555556   1
## 4848          0.59405422          0.62091395 0.58166477          0.61111111   1
## 4849          0.44945059          0.47907824 0.31173314          0.50000000   0
## 4850          0.49607860          0.36824880 0.30786555          0.50000000   0
## 4851          0.48368511          0.37087949 0.34912751          0.38888889   1
## 4852          0.61378137          0.59185648 0.48565962          0.44444444   1
## 4853          0.59758867          0.64749192 0.60502543          0.66666667   0
## 4854          0.51704935          0.63449029 0.54863150          0.50000000   0
## 4855          0.51029199          0.47638194 0.59429466          0.50000000   1
## 4856          0.57001875          0.61063562 0.61755866          0.55555556   1
## 4857          0.57838756          0.62560331 0.51543307          0.50000000   1
## 4858          0.50612454          0.50313814 0.60751353          0.50000000   1
## 4859          0.46813963          0.47598555 0.53289037          0.55555556   1
## 4860          0.56280576          0.57472443 0.46513043          0.55555556   1
## 4861          0.31540387          0.37814111 0.52357355          0.50000000   0
## 4862          0.57919666          0.63977645 0.63981854          0.55555556   1
```

```
## 4863          0.68349009          0.58134718 0.55820434          0.44444444  0
## 4864          0.47255690          0.50503466 0.47285929          0.38888889  0
## 4865          0.40803337          0.54263230 0.41426261          0.72222222  1
## 4866          0.40937367          0.32692107 0.41985413          0.50000000  1
## 4867          0.50368017          0.52656028 0.50974059          0.55555556  1
## 4868          0.52797044          0.65097014 0.48755676          0.50000000  1
## 4869          0.43678233          0.40003180 0.38415789          0.50000000  0
## 4870          0.41874399          0.32579818 0.31014520          0.38888889  1
## 4871          0.53344859          0.47160826 0.53954152          0.61111111  0
## 4872          0.42647534          0.42832496 0.28315590          0.44444444  0
## 4873          0.71160854          0.70789142 0.52530929          0.66666667  1
## 4874          0.50214853          0.64239255 0.59574061          0.50000000  0
## 4875          0.52616643          0.52333639 0.49245242          0.44444444  0
## 4876          0.47470706          0.34265798 0.46504561          0.50000000  0
## 4877          0.58088877          0.72885370 0.55205647          0.66666667  1
## 4878          0.43445504          0.28445609 0.33201806          0.44444444  0
## 4879          0.43936352          0.46113163 0.64724229          0.66666667  1
## 4880          0.47335718          0.49419751 0.48886095          0.61111111  1
## 4881          0.54986801          0.52937673 0.53899031          0.27777778  1
## 4882          0.45128132          0.39237498 0.46778273          0.50000000  1
## 4883          0.64866894          0.69144935 0.68029662          0.55555556  1
## 4884          0.49492459          0.47898498 0.48143887          0.27777778  1
## 4885          0.38398843          0.41190319 0.31840828          0.22222222  0
## 4886          0.30012906          0.35849528 0.47423485          0.61111111  1
## 4887          0.51054102          0.54831553 0.47026474          0.50000000  0
## 4888          0.40456592          0.35713863 0.44370547          0.50000000  0
## 4889          0.35197969          0.36514024 0.45231883          0.50000000  1
## 4890          0.46892308          0.50280276 0.52514689          0.50000000  1
## 4891          0.48399605          0.40105598 0.40903881          0.61111111  0
## 4892          0.30876845          0.22927410 0.32303561          0.38888889  0
## 4893          0.45811401          0.52974956 0.49792842          0.38888889  1
## 4894          0.50268366          0.54312466 0.56588172          0.61111111  0
## 4895          0.56126926          0.52215430 0.59849355          0.61111111  1
## 4896          0.38536368          0.42726023 0.45520004          0.61111111  1
## 4897          0.66799292          0.71223244 0.64434335          0.55555556  0
## 4898          0.57837321          0.58890552 0.53331589          0.50000000  0
## 4899          0.63078624          0.63262240 0.52326776          0.50000000  0
## 4900          0.43015143          0.26697947 0.33792167          0.55555556  0
## 4901          0.46829374          0.44165079 0.45860413          0.38888889  0
## 4902          0.49164959          0.48043396 0.47008176          0.50000000  0
## 4903          0.45274556          0.42902831 0.50966266          0.61111111  0
## 4904          0.52341117          0.56706988 0.53878937          0.44444444  1
## 4905          0.29959258          0.12997819 0.32870172          0.55555556  0
## 4906          0.40602721          0.39762161 0.43005565          0.50000000  1
## 4907          0.46085890          0.51951335 0.48971867          0.50000000  0
## 4908          0.33040387          0.23211448 0.37143438          0.61111111  0
## 4909          0.46786653          0.49878289 0.52081183          0.61111111  1
## 4910          0.64489275          0.72083167 0.58696875          0.33333333  1
## 4911          0.36093238          0.41580631 0.34151118          0.27777778  0
## 4912          0.48339055          0.48601063 0.46156933          0.50000000  0
## 4913          0.48175839          0.56950701 0.47684058          0.61111111  1
## 4914          0.54336871          0.51662824 0.53229155          0.50000000  1
## 4915          0.38732437          0.43151447 0.43823228          0.50000000  0
## 4916          0.60896288          0.65744672 0.53065588          0.61111111  1
## 4917          0.47739517          0.44682317 0.59163471          0.55555556  1
## 4918          0.53544805          0.68310399 0.65829023          0.88888889  1
## 4919          0.63746116          0.49021648 0.40247230          0.33333333  1
## 4920          0.65808888          0.49756795 0.35653651          0.44444444  1
```

```
## 4921          0.61559059          0.69968012 0.65032180          0.77777778   1
## 4922          0.54075842          0.54431350 0.57374162          0.72222222   1
## 4923          0.35754816          0.33754873 0.40254181          0.38888889   0
## 4924          0.47902755          0.38869771 0.35724724          0.27777778   1
## 4925          0.40272901          0.22909389 0.25776776          0.27777778   0
## 4926          0.32932023          0.26602435 0.44144536          0.66666667   1
## 4927          0.43135592          0.36865972 0.50376483          0.44444444   1
## 4928          0.39291092          0.32856648 0.42154031          0.44444444   0
## 4929          0.41002998          0.52338699 0.63665502          0.66666667   1
## 4930          0.32380715          0.20714458 0.33939510          0.38888889   1
## 4931          0.38357561          0.29552721 0.34351456          0.33333333   0
## 4932          0.50457461          0.52234773 0.44741839          0.44444444   1
## 4933          0.58443556          0.63562589 0.62240049          0.83333333   1
## 4934          0.51322114          0.54778353 0.50375764          0.38888889   0
## 4935          0.53514582          0.58607700 0.46272556          0.55555556   1
## 4936          0.61864420          0.55545433 0.77683003          0.88888889   1
## 4937          0.35055662          0.44207347 0.40620354          0.44444444   1
## 4938          0.50887206          0.55573607 0.55733380          0.61111111   1
## 4939          0.51135070          0.51809312 0.36659078          0.33333333   0
## 4940          0.56021794          0.55920727 0.48421834          0.50000000   0
## 4941          0.65298738          0.66793045 0.66940108          0.72222222   1
## 4942          0.44316703          0.23838869 0.32562583          0.33333333   0
## 4943          0.48697339          0.52201996 0.49779273          0.55555556   1
## 4944          0.42215849          0.36253455 0.29136662          0.27777778   0
## 4945          0.40027872          0.25460912 0.39041324          0.44444444   0
## 4946          0.49299631          0.35947460 0.42488401          0.50000000   1
## 4947          0.52878326          0.56304404 0.50936253          0.44444444   1
## 4948          0.31684830          0.22360095 0.42600543          0.50000000   0
## 4949          0.56349912          0.62239278 0.62219908          0.61111111   1
## 4950          0.64618257          0.63038039 0.57974854          0.72222222   1
## 4951          0.51874681          0.52664872 0.42155083          0.61111111   0
## 4952          0.51192068          0.68770555 0.59005123          0.55555556   1
## 4953          0.38769839          0.46118304 0.43404839          0.33333333   1
## 4954          0.61494658          0.49293472 0.49869149          0.55555556   1
## 4955          0.45583454          0.49737122 0.52917384          0.55555556   0
## 4956          0.66272870          0.61353356 0.40812204          0.50000000   1
## 4957          0.68106043          0.81956817 0.76844620          0.66666667   1
## 4958          0.65178192          0.61383597 0.52189687          0.55555556   0
## 4959          0.48085439          0.55610469 0.47966066          0.33333333   0
## 4960          0.56269420          0.42718033 0.45292623          0.27777778   0
## 4961          0.52055050          0.47272145 0.44377939          0.55555556   0
## 4962          0.46628906          0.52784505 0.58302930          0.44444444   0
## 4963          0.61486420          0.69401018 0.69584281          0.77777778   1
## 4964          0.43066827          0.36388570 0.24027117          0.38888889   0
## 4965          0.58389492          0.45015900 0.52670384          0.44444444   1
## 4966          0.42418849          0.38447161 0.32014184          0.27777778   0
## 4967          0.45993018          0.49646536 0.58442853          0.61111111   1
## 4968          0.45917374          0.67549158 0.66053088          0.77777778   1
## 4969          0.47587470          0.64479957 0.68669606          0.66666667   1
## 4970          0.54274071          0.51110518 0.53680288          0.61111111   1
## 4971          0.25959948          0.10341759 0.23584925          0.38888889   0
## 4972          0.36407255          0.39868946 0.38908580          0.50000000   0
## 4973          0.44657033          0.48407611 0.36673380          0.33333333   0
## 4974          0.55004060          0.53703400 0.41505416          0.55555556   1
## 4975          0.59103845          0.61946218 0.52707833          0.66666667   0
## 4976          0.50063354          0.50748844 0.49473235          0.61111111   1
## 4977          0.51211920          0.66073955 0.61687846          0.66666667   1
## 4978          0.64797053          0.86157389 0.70934249          0.61111111   1
```

```
## 4979          0.49782258        0.53883559 0.58906472        0.61111111    1
## 4980          0.29675539        0.17760935 0.23886694        0.27777778    0
## 4981          0.43096974        0.34682052 0.35735609        0.38888889    0
## 4982          0.44649123        0.37325046 0.42546352        0.44444444    1
## 4983          0.49204899        0.52258501 0.53682632        0.33333333    1
## 4984          0.55713936        0.61092259 0.32561573        0.33333333    0
## 4985          0.33720095        0.33045142 0.36438573        0.33333333    0
## 4986          0.50880791        0.54346280 0.56598297        0.55555556    0
## 4987          0.66803843        0.58201991 0.69098169        0.66666667    1
## 4988          0.48262437        0.36370472 0.30362326        0.38888889    0
## 4989          0.53015530        0.59131630 0.53779434        0.44444444    0
## 4990          0.47520084        0.27786395 0.30041162        0.27777778    0
## 4991          0.53611266        0.72435996 0.79792515        0.66666667    0
## 4992          0.57205602        0.59678196 0.68787023        0.66666667    1
## 4993          0.54865769        0.52585635 0.46472958        0.50000000    1
## 4994          0.43585010        0.51713267 0.50784809        0.61111111    0
## 4995          0.33376059        0.27560606 0.30830946        0.38888889    0
## 4996          0.45479217        0.49484158 0.40328195        0.55555556    1
## 4997          0.51039595        0.40135330 0.45208247        0.38888889    0
## 4998          0.53467293        0.56522650 0.49092965        0.55555556    0
## 4999          0.51646076        0.39961727 0.53153287        0.61111111    1
## 5000          0.60678098        0.69429953 0.60079968        0.55555556    1
## 5001          0.54721473        0.51817384 0.42993626        0.33333333    0
## 5002          0.43047769        0.43189354 0.35595582        0.38888889    0
## 5003          0.63357429        0.64263493 0.63147421        0.66666667    1
## 5004          0.56606132        0.34295379 0.40005687        0.44444444    0
## 5005          0.53167683        0.61583482 0.63264305        0.50000000    1
## 5006          0.57353165        0.61237872 0.66006603        0.61111111    1
## 5007          0.53719812        0.55169113 0.52022870        0.50000000    0
## 5008          0.36217810        0.29808280 0.28068331        0.50000000    0
## 5009          0.48625505        0.47414024 0.38847140        0.44444444    0
## 5010          0.54282133        0.45723329 0.49692634        0.55555556    1
## 5011          0.47988650        0.48803131 0.41160450        0.61111111    0
## 5012          0.47270158        0.50270116 0.48119102        0.44444444    0
## 5013          0.41907807        0.44931514 0.60117098        0.50000000    0
## 5014          0.57132885        0.58094114 0.65283291        0.61111111    1
## 5015          0.66510045        0.70107793 0.61320898        0.50000000    1
## 5016          0.54379547        0.51162097 0.48629812        0.55555556    0
## 5017          0.55021662        0.54075938 0.53927545        0.50000000    1
## 5018          0.44928828        0.38056040 0.49979556        0.55555556    0
## 5019          0.46496690        0.46401515 0.52875427        0.50000000    1
## 5020          0.43276060        0.35844187 0.44426523        0.44444444    0
## 5021          0.44186100        0.40618985 0.29940319        0.33333333    0
## 5022          0.22502317        0.29856932 0.30472164        0.38888889    0
## 5023          0.45045306        0.47574623 0.46705286        0.55555556    1
## 5024          0.70730117        0.55817571 0.44973693        0.50000000    0
## 5025          0.55960873        0.56285305 0.55559329        0.66666667    1
## 5026          0.48088456        0.74214647 0.65726551        0.55555556    1
## 5027          0.40839884        0.51204726 0.53613546        0.33333333    0
## 5028          0.38580608        0.39843136 0.56792590        0.61111111    1
## 5029          0.72029565        0.75514298 0.62232722        0.66666667    1
## 5030          0.52724654        0.48995093 0.50750613        0.61111111    1
## 5031          0.32662436        0.57556134 0.44167999        0.44444444    1
## 5032          0.49801925        0.60584003 0.52624912        0.55555556    0
## 5033          0.57735622        0.52722533 0.36444198        0.33333333    1
## 5034          0.53437878        0.41434007 0.64061889        0.61111111    0
## 5035          0.41927127        0.44084384 0.46476880        0.50000000    1
## 5036          0.43565225        0.55302699 0.58768361        0.61111111    1
```

```
## 5037        0.37813276       0.56033966 0.45410616       0.44444444    0
## 5038        0.36445769       0.27275468 0.39730892       0.27777778    1
## 5039        0.55358630       0.66162350 0.53349427       0.77777778    1
## 5040        0.48173562       0.35140799 0.31474891       0.33333333    0
## 5041        0.52091402       0.52515115 0.34849050       0.33333333    0
## 5042        0.52357696       0.43864055 0.54168512       0.66666667    0
## 5043        0.51843002       0.47173558 0.39559776       0.50000000    0
## 5044        0.62161782       0.56105530 0.53475858       0.72222222    1
## 5045        0.65392968       0.40572987 0.50438959       0.44444444    1
## 5046        0.47511741       0.51901562 0.67528578       0.61111111    1
## 5047        0.48802565       0.48344529 0.49335437       0.44444444    1
## 5048        0.50873620       0.37654364 0.36235823       0.22222222    1
## 5049        0.56001223       0.55201816 0.50091175       0.38888889    1
## 5050        0.32372460       0.29395066 0.21355812       0.16666667    0
## 5051        0.57751164       0.46915448 0.48843960       0.16666667    0
## 5052        0.59656851       0.65569018 0.57089942       0.61111111    1
## 5053        0.55137494       0.47677009 0.56732839       0.66666667    1
## 5054        0.40324606       0.38146168 0.44210834       0.55555556    0
## 5055        0.26254746       0.42012146 0.39691173       0.44444444    1
## 5056        0.42242683       0.37277688 0.46306869       0.38888889    1
## 5057        0.36392322       0.43465605 0.43963733       0.61111111    0
## 5058        0.39327973       0.41900475 0.45286045       0.61111111    0
## 5059        0.54185657       0.48402703 0.45756733       0.44444444    0
## 5060        0.60640801       0.54014114 0.45507966       0.38888889    0
## 5061        0.41925182       0.35520115 0.44933996       0.38888889    0
## 5062        0.66684669       0.62914606 0.43106952       0.38888889    0
## 5063        0.45212796       0.34534346 0.45409221       0.44444444    1
## 5064        0.45308823       0.42282577 0.47413709       0.38888889    0
## 5065        0.40962271       0.34037235 0.38790105       0.61111111    0
## 5066        0.47084408       0.37601254 0.58141041       0.72222222    0
## 5067        0.51113030       0.35290928 0.38816628       0.38888889    1
## 5068        0.55089269       0.58107928 0.49814764       0.55555556    1
## 5069        0.59609625       0.66486214 0.54712582       0.38888889    1
## 5070        0.31152506       0.33428275 0.36991199       0.38888889    1
## 5071        0.78827181       0.53930888 0.53640258       0.61111111    1
## 5072        0.51249777       0.57219158 0.63051673       0.66666667    1
## 5073        0.48447057       0.40536690 0.34299460       0.22222222    0
## 5074        0.62391310       0.57562795 0.69679752       0.66666667    1
## 5075        0.34228339       0.43083755 0.34724843       0.22222222    0
## 5076        0.36894757       0.32701364 0.39325447       0.22222222    1
## 5077        0.54761722       0.74136337 0.65771572       0.61111111    1
## 5078        0.42144345       0.42056127 0.27409800       0.33333333    0
## 5079        0.53399899       0.45181930 0.47689958       0.27777778    0
## 5080        0.50117650       0.58207999 0.62832786       0.61111111    1
## 5081        0.51847626       0.34140720 0.42248316       0.55555556    0
## 5082        0.43230778       0.43967757 0.55998169       0.44444444    1
## 5083        0.54456226       0.45613940 0.54542275       0.61111111    0
## 5084        0.44081954       0.41391957 0.59232601       0.61111111    1
## 5085        0.43842045       0.41527043 0.44493302       0.50000000    0
## 5086        0.47875029       0.34732059 0.28541014       0.22222222    0
## 5087        0.50407290       0.46443700 0.38349204       0.22222222    0
## 5088        0.56311351       0.31050433 0.37876220       0.27777778    0
## 5089        0.42800725       0.39426120 0.31026312       0.44444444    0
## 5090        0.40221712       0.33860517 0.46373517       0.55555556    0
## 5091        0.46707687       0.38878711 0.41715720       0.38888889    0
## 5092        0.35601121       0.39667876 0.40040333       0.44444444    1
## 5093        0.44284174       0.23374110 0.28436186       0.22222222    0
## 5094        0.45529804       0.57772578 0.48311868       0.38888889    0
```

```
## 5095          0.47044359          0.48845365 0.42108518          0.38888889   0
## 5096          0.45277542          0.42971234 0.41669381          0.27777778   0
## 5097          0.61553813          0.50193373 0.54200202          0.55555556   1
## 5098          0.52843605          0.55853688 0.56440610          0.61111111   1
## 5099          0.46589985          0.37532075 0.46955408          0.55555556   0
## 5100          0.64270862          0.64087703 0.57826572          0.66666667   1
## 5101          0.68258152          0.48288345 0.63866049          0.61111111   0
## 5102          0.36765852          0.28752198 0.38628574          0.55555556   0
## 5103          0.34403064          0.48110780 0.35237240          0.44444444   0
## 5104          0.68899666          0.70340278 0.53411372          0.50000000   1
## 5105          0.76060841          0.45299048 0.45053151          0.38888889   1
## 5106          0.54044739          0.72281548 0.67566577          0.83333333   1
## 5107          0.43081311          0.50684926 0.44867445          0.44444444   0
## 5108          0.35004641          0.37911997 0.58719215          0.72222222   1
## 5109          0.69089272          0.72826166 0.76722860          0.83333333   1
## 5110          0.41553023          0.52383769 0.53713127          0.50000000   0
## 5111          0.41047105          0.26599564 0.32302395          0.33333333   0
## 5112          0.59086329          0.74573243 0.56481005          0.55555556   1
## 5113          0.49409467          0.64947216 0.61112603          0.66666667   1
## 5114          0.59970599          0.80611199 0.69180752          0.61111111   1
## 5115          0.57364810          0.54668590 0.49173335          0.33333333   0
## 5116          0.64343540          0.68955435 0.59290257          0.72222222   0
## 5117          0.63312207          0.78631162 0.66590643          0.61111111   1
## 5118          0.56761722          0.51956057 0.44507504          0.50000000   1
## 5119          0.52435533          0.32811746 0.23253967          0.16666667   1
## 5120          0.51585831          0.64494424 0.50431376          0.61111111   0
## 5121          0.55035565          0.56233467 0.63719002          0.72222222   0
## 5122          0.55739278          0.49699684 0.47836918          0.44444444   0
## 5123          0.66245649          0.62666208 0.58622971          0.66666667   1
## 5124          0.46972075          0.52577095 0.61364119          0.50000000   0
## 5125          0.55698521          0.49354138 0.49165103          0.83333333   0
## 5126          0.55218136          0.48714793 0.44559483          0.61111111   1
## 5127          0.65503307          0.57618433 0.47799674          0.50000000   1
## 5128          0.46304806          0.54062112 0.42638907          0.55555556   0
## 5129          0.52980419          0.54664387 0.41052945          0.50000000   1
## 5130          0.38492033          0.50114920 0.55643478          0.55555556   0
## 5131          0.36229775          0.21937305 0.40795248          0.50000000   0
## 5132          0.54429019          0.54905241 0.51953433          0.44444444   0
## 5133          0.64836718          0.75605848 0.68565343          0.83333333   1
## 5134          0.58015602          0.75941336 0.68555399          0.66666667   1
## 5135          0.35104778          0.27787417 0.21785352          0.22222222   0
## 5136          0.48444045          0.56300873 0.60546296          0.72222222   1
## 5137          0.44847704          0.48542955 0.53115444          0.33333333   1
## 5138          0.55362065          0.66967563 0.61725450          0.55555556   1
## 5139          0.53893289          0.59217457 0.66197349          0.61111111   0
## 5140          0.39147594          0.34680854 0.35556264          0.27777778   0
## 5141          0.30583382          0.27846725 0.38342198          0.50000000   1
## 5142          0.44710741          0.36539027 0.46541908          0.66666667   0
## 5143          0.46116148          0.43224914 0.39789384          0.44444444   0
## 5144          0.55337673          0.52343541 0.47096545          0.33333333   0
## 5145          0.35143804          0.27189786 0.37529114          0.50000000   0
## 5146          0.53367398          0.36168630 0.39857440          0.33333333   0
## 5147          0.53461702          0.46701654 0.54634562          0.72222222   1
## 5148          0.52112244          0.53586724 0.54757066          0.55555556   0
## 5149          0.68003365          0.73794077 0.59388038          0.55555556   1
## 5150          0.55250836          0.51257232 0.51153998          0.50000000   0
## 5151          0.52270023          0.47204039 0.57792811          0.66666667   1
## 5152          0.47371236          0.50278353 0.37143438          0.44444444   1
```

624

```
## 5153        0.44119496        0.50711950 0.52351844        0.50000000   0
## 5154        0.49993883        0.51112795 0.46423945        0.38888889   0
## 5155        0.36093800        0.27983515 0.31426431        0.33333333   0
## 5156        0.49662694        0.47560904 0.54023649        0.33333333   1
## 5157        0.23069371        0.21503979 0.30677138        0.44444444   0
## 5158        0.56629075        0.41173422 0.41274233        0.50000000   1
## 5159        0.52328036        0.45501850 0.35875076        0.22222222   0
## 5160        0.38300211        0.39783177 0.36343078        0.38888889   1
## 5161        0.62019269        0.59875390 0.49289577        0.38888889   0
## 5162        0.59544015        0.54421952 0.57464494        0.77777778   1
## 5163        0.63746737        0.65526420 0.53024294        0.61111111   1
## 5164        0.45457171        0.41893905 0.45162978        0.38888889   0
## 5165        0.40524059        0.43182586 0.53307994        0.44444444   0
## 5166        0.45189712        0.50534739 0.51461620        0.55555556   1
## 5167        0.44910995        0.61889225 0.63629387        0.66666667   1
## 5168        0.58169485        0.48553136 0.44368555        0.55555556   0
## 5169        0.34429456        0.21783931 0.40274182        0.44444444   0
## 5170        0.55926155        0.51958003 0.46667160        0.55555556   0
## 5171        0.45137384        0.48665155 0.58507624        0.55555556   1
## 5172        0.42913919        0.43962555 0.38085175        0.33333333   0
## 5173        0.54386512        0.59923724 0.55345586        0.61111111   0
## 5174        0.51324880        0.37015158 0.37135244        0.16666667   0
## 5175        0.54369160        0.52210359 0.45394786        0.55555556   1
## 5176        0.49131967        0.36885184 0.44476641        0.50000000   1
## 5177        0.53888669        0.47915285 0.41622414        0.44444444   1
## 5178        0.60605737        0.58830481 0.44800960        0.50000000   0
## 5179        0.35649577        0.46603918 0.47567025        0.33333333   0
## 5180        0.52945583        0.49408019 0.46663432        0.55555556   1
## 5181        0.51973659        0.41158646 0.42710497        0.38888889   0
## 5182        0.25161002        0.53677966 0.48784870        0.44444444   0
## 5183        0.62797851        0.56326702 0.52468537        0.50000000   0
## 5184        0.32903608        0.39293497 0.46685575        0.38888889   0
## 5185        0.61995858        0.63532525 0.54769703        0.50000000   0
## 5186        0.41188751        0.61666145 0.43878622        0.50000000   0
## 5187        0.40073744        0.36744273 0.33096201        0.33333333   1
## 5188        0.50282475        0.38902217 0.35203000        0.44444444   0
## 5189        0.43266527        0.32412774 0.46876045        0.50000000   1
## 5190        0.66744043        0.39782261 0.52026857        0.55555556   0
## 5191        0.48958862        0.50655507 0.50027874        0.50000000   1
## 5192        0.63867116        0.76641224 0.62555053        0.66666667   1
## 5193        0.51872681        0.56064847 0.50705568        0.44444444   1
## 5194        0.36323775        0.39423917 0.38649144        0.27777778   1
## 5195        0.67123958        0.49203074 0.37294601        0.33333333   0
## 5196        0.51472252        0.61786062 0.54661546        0.55555556   0
## 5197        0.52474073        0.56262628 0.49935372        0.44444444   1
## 5198        0.53229513        0.37582439 0.42026612        0.61111111   0
## 5199        0.57441864        0.57619581 0.69922511        0.55555556   0
## 5200        0.49216261        0.42552983 0.29277927        0.44444444   1
## 5201        0.64878078        0.65780500 0.49429391        0.61111111   0
## 5202        0.39773234        0.49676567 0.48780849        0.44444444   1
## 5203        0.39382699        0.49944288 0.45342187        0.50000000   1
## 5204        0.46523422        0.49813627 0.48738446        0.66666667   1
## 5205        0.37628376        0.29954209 0.34243228        0.38888889   0
## 5206        0.51078642        0.48940127 0.50006316        0.50000000   1
## 5207        0.61238191        0.35691509 0.32926833        0.27777778   0
## 5208        0.40246608        0.30073902 0.43281200        0.33333333   0
## 5209        0.41476703        0.44794629 0.44710580        0.33333333   0
## 5210        0.52787320        0.49066536 0.43578093        0.44444444   0
```

```
## 5211         0.43224619         0.55623456 0.49769585         0.55555556    0
## 5212         0.59034612         0.54201899 0.48089024         0.61111111    0
## 5213         0.69425498         0.55807506 0.53201240         0.61111111    0
## 5214         0.43542080         0.43123334 0.45371836         0.55555556    0
## 5215         0.57893187         0.62845657 0.54257073         0.44444444    1
## 5216         0.25834975         0.37159225 0.36907771         0.50000000    0
## 5217         0.58571871         0.59225640 0.51290888         0.55555556    1
## 5218         0.62293405         0.77162808 0.70126104         0.66666667    1
## 5219         0.58704990         0.54521066 0.46483011         0.50000000    0
## 5220         0.57981755         0.43668181 0.41603070         0.44444444    0
## 5221         0.58742676         0.49873209 0.53313040         0.55555556    1
## 5222         0.72983441         0.62927831 0.57162644         0.55555556    1
## 5223         0.45121841         0.42429771 0.53034446         0.38888889    0
## 5224         0.46285905         0.44107361 0.60342625         0.61111111    1
## 5225         0.51658952         0.44070163 0.43397377         0.33333333    1
## 5226         0.64150551         0.61047295 0.56650145         0.72222222    1
## 5227         0.58945656         0.38473647 0.34221660         0.44444444    1
## 5228         0.53311046         0.64510125 0.60171399         0.61111111    1
## 5229         0.44017377         0.38354671 0.49238678         0.55555556    0
## 5230         0.55142857         0.49723147 0.50635565         0.55555556    0
## 5231         0.49707912         0.32881322 0.34280967         0.33333333    1
## 5232         0.42087321         0.30388829 0.35830075         0.38888889    0
## 5233         0.61235771         0.63470265 0.58722804         0.50000000    1
## 5234         0.53654316         0.44394281 0.45206779         0.50000000    0
## 5235         0.56507261         0.52416299 0.56091796         0.55555556    1
## 5236         0.49183933         0.50965847 0.50868179         0.61111111    0
## 5237         0.63028445         0.54816870 0.54849222         0.66666667    1
## 5238         0.54518461         0.73297018 0.58835418         0.55555556    1
## 5239         0.54866926         0.47697424 0.41970798         0.55555556    0
## 5240         0.59489347         0.69431060 0.68058959         0.66666667    1
## 5241         0.59986769         0.59613529 0.59378706         0.44444444    1
## 5242         0.37129054         0.29523816 0.37366353         0.33333333    0
## 5243         0.44974873         0.52803117 0.47796027         0.38888889    0
## 5244         0.52885129         0.52631361 0.52979028         0.61111111    1
## 5245         0.54064370         0.56154063 0.55646602         0.38888889    0
## 5246         0.41781261         0.40178427 0.46502169         0.38888889    1
## 5247         0.42874012         0.43693643 0.46585301         0.44444444    1
## 5248         0.50404560         0.48074622 0.50968348         0.38888889    1
## 5249         0.59733289         0.58384341 0.48261822         0.72222222    1
## 5250         0.58891983         0.56729516 0.42989095         0.61111111    1
## 5251         0.53431306         0.49483103 0.47021415         0.33333333    1
## 5252         0.62800548         0.58806490 0.52790105         0.77777778    1
## 5253         0.43074008         0.44776304 0.52069845         0.61111111    1
## 5254         0.58529523         0.59766781 0.54361244         0.61111111    1
## 5255         0.48219568         0.38766873 0.52364904         0.55555556    1
## 5256         0.50276865         0.43438373 0.29409795         0.22222222    1
## 5257         0.47693850         0.48237847 0.37266627         0.44444444    0
## 5258         0.40317349         0.63921220 0.52207634         0.55555556    1
## 5259         0.59105778         0.61455953 0.47809259         0.61111111    0
## 5260         0.59045707         0.61918115 0.47432313         0.44444444    0
## 5261         0.48168104         0.55741337 0.55138185         0.72222222    1
## 5262         0.41952070         0.33570100 0.47646674         0.38888889    1
## 5263         0.42996741         0.34782552 0.24388587         0.22222222    0
## 5264         0.38483701         0.33436824 0.47408407         0.38888889    0
## 5265         0.39255658         0.41279899 0.50281341         0.33333333    0
## 5266         0.54359898         0.62606957 0.61750931         0.55555556    0
## 5267         0.59939158         0.64856485 0.63558883         0.55555556    0
## 5268         0.63364721         0.59237364 0.53779381         0.55555556    0
```

```
## 5269            0.46296290      0.44714905 0.42364742      0.38888889     0
## 5270            0.52945320      0.56301628 0.49621375      0.55555556     1
## 5271            0.49226029      0.45512065 0.25937277      0.11111111     0
## 5272            0.68834340      0.66605990 0.63849859      0.61111111     1
## 5273            0.41248579      0.31001145 0.35660328      0.38888889     0
## 5274            0.44418721      0.35030378 0.39179028      0.44444444     0
## 5275            0.77022863      0.82855178 0.59254912      0.77777778     1
## 5276            0.34248962      0.25796792 0.37575207      0.44444444     0
## 5277            0.38696686      0.27295584 0.44316960      0.44444444     0
## 5278            0.35078168      0.22410500 0.21906924      0.27777778     0
## 5279            0.49546443      0.49414174 0.31306819      0.55555556     0
## 5280            0.44997905      0.43087431 0.45504526      0.44444444     0
## 5281            0.37468315      0.45764987 0.51221552      0.44444444     1
## 5282            0.53350370      0.48117125 0.49461390      0.50000000     0
## 5283            0.38142388      0.33065952 0.44739876      0.61111111     0
## 5284            0.52004762      0.42157323 0.45109230      0.50000000     1
## 5285            0.59517270      0.61123440 0.50374468      0.55555556     1
## 5286            0.49395271      0.46376207 0.31919057      0.50000000     0
## 5287            0.39263517      0.34314114 0.39832672      0.33333333     0
## 5288            0.46785527      0.44853465 0.45854925      0.50000000     1
## 5289            0.52490887      0.47117016 0.48646873      0.66666667     1
## 5290            0.42456702      0.47580494 0.35439357      0.55555556     0
## 5291            0.41510911      0.38376422 0.48349268      0.38888889     1
## 5292            0.55658432      0.52933991 0.61588138      0.61111111     1
## 5293            0.40720279      0.53022196 0.49401060      0.55555556     0
## 5294            0.50676935      0.47903562 0.48199861      0.27777778     1
## 5295            0.33467985      0.42524396 0.46117392      0.38888889     1
## 5296            0.51113632      0.54089216 0.57486606      0.66666667     1
## 5297            0.39894579      0.44161604 0.46332627      0.50000000     1
## 5298            0.51986736      0.42869508 0.44322542      0.33333333     0
## 5299            0.53419182      0.59529004 0.65183446      0.50000000     1
## 5300            0.46450667      0.34706277 0.42892468      0.38888889     1
## 5301            0.45025583      0.48817511 0.45343591      0.55555556     0
## 5302            0.53000619      0.60991876 0.57526524      0.55555556     1
## 5303            0.41926024      0.36052322 0.48925731      0.61111111     0
## 5304            0.51886194      0.53752429 0.46734168      0.44444444     1
## 5305            0.40185442      0.42171219 0.52909304      0.38888889     0
## 5306            0.52002015      0.53313342 0.52745364      0.55555556     0
## 5307            0.50061877      0.47488332 0.43037814      0.44444444     0
## 5308            0.43396159      0.26812227 0.33397045      0.33333333     1
## 5309            0.48777805      0.49182432 0.43834103      0.61111111     1
## 5310            0.60614870      0.58802767 0.48650809      0.77777778     1
## 5311            0.54772719      0.49566978 0.44769012      0.61111111     0
## 5312            0.43804058      0.45237780 0.59371397      0.33333333     0
## 5313            0.45180295      0.40604288 0.34756673      0.16666667     0
## 5314            0.48425225      0.55211453 0.49384244      0.66666667     0
## 5315            0.62818728      0.68560006 0.57624008      0.55555556     1
## 5316            0.47780717      0.50124246 0.45381797      0.50000000     0
## 5317            0.40519312      0.20317871 0.25282006      0.11111111     0
## 5318            0.32243220      0.55371292 0.56666687      0.61111111     0
## 5319            0.33096804      0.29213523 0.34720706      0.38888889     0
## 5320            0.56053127      0.55004615 0.43259112      0.44444444     1
## 5321            0.50549764      0.54460139 0.55857664      0.66666667     0
## 5322            0.50554069      0.46604910 0.53877388      0.61111111     1
## 5323            0.66167372      0.69647254 0.53725992      0.50000000     1
## 5324            0.45238047      0.30611977 0.31330461      0.44444444     0
## 5325            0.53792017      0.43687940 0.39145486      0.55555556     0
## 5326            0.48170563      0.49699718 0.47654749      0.50000000     0
```

627

```
## 5327          0.43510114      0.52742334 0.49086470      0.50000000      0
## 5328          0.50838022      0.51901016 0.36699387      0.55555556      0
## 5329          0.38697762      0.27873247 0.37673293      0.22222222      1
## 5330          0.45468614      0.35506495 0.22319903      0.27777778      0
## 5331          0.50563305      0.56351310 0.51277303      0.55555556      0
## 5332          0.35658638      0.35817558 0.27166520      0.27777778      0
## 5333          0.62848886      0.76513394 0.71089621      0.83333333      1
## 5334          0.42101866      0.38503756 0.39347516      0.50000000      0
## 5335          0.65516522      0.61039489 0.54337517      0.50000000      1
## 5336          0.61113443      0.56223623 0.45452007      0.50000000      1
## 5337          0.56177566      0.64088625 0.58809957      0.55555556      1
## 5338          0.54802168      0.61240569 0.67525719      0.55555556      0
## 5339          0.63616370      0.69634861 0.59974510      0.77777778      1
## 5340          0.59065734      0.65398761 0.68337404      0.72222222      1
## 5341          0.45610922      0.39542570 0.39076073      0.44444444      0
## 5342          0.54579481      0.65712952 0.47895491      0.50000000      0
## 5343          0.48478309      0.34012832 0.31478389      0.50000000      0
## 5344          0.58725691      0.54573639 0.60915666      0.55555556      1
## 5345          0.46071358      0.32707602 0.37316076      0.33333333      0
## 5346          0.54620737      0.48120383 0.55767378      0.61111111      1
## 5347          0.46404662      0.38457303 0.49789752      0.44444444      0
## 5348          0.52038145      0.53157520 0.49449449      0.33333333      0
## 5349          0.55795283      0.66388420 0.54039354      0.72222222      0
## 5350          0.59971638      0.63123787 0.51061381      0.55555556      1
## 5351          0.65464953      0.62073611 0.53759262      0.50000000      1
## 5352          0.53336929      0.51070955 0.51529332      0.44444444      0
## 5353          0.46913964      0.55685380 0.46018111      0.44444444      0
## 5354          0.47042319      0.60722586 0.54691234      0.44444444      0
## 5355          0.58132595      0.49797603 0.56158528      0.44444444      1
## 5356          0.40793604      0.34694803 0.44825673      0.22222222      1
## 5357          0.61020840      0.47760060 0.53424113      0.44444444      0
## 5358          0.51886988      0.48512029 0.46328228      0.61111111      1
## 5359          0.43156891      0.54218644 0.48992037      0.55555556      1
## 5360          0.43220268      0.39677526 0.47010682      0.44444444      1
## 5361          0.53009750      0.34205710 0.44293108      0.50000000      0
## 5362          0.57094687      0.57913558 0.59627499      0.50000000      1
## 5363          0.37269938      0.36388961 0.39210416      0.66666667      0
## 5364          0.42042263      0.38820946 0.50720362      0.50000000      0
## 5365          0.51118076      0.41944905 0.45470193      0.61111111      1
## 5366          0.62281346      0.54811902 0.46573862      0.44444444      0
## 5367          0.75107365      0.78612581 0.62152337      0.61111111      1
## 5368          0.62329400      0.48502981 0.45542325      0.50000000      1
## 5369          0.51702912      0.58316289 0.54507352      0.44444444      0
## 5370          0.45210499      0.36415908 0.43326788      0.33333333      0
## 5371          0.68804264      0.69858831 0.58157595      0.61111111      1
## 5372          0.44334782      0.47790054 0.37177363      0.55555556      0
## 5373          0.49840062      0.45629409 0.40654046      0.38888889      0
## 5374          0.64899129      0.71484658 0.62236360      0.66666667      1
## 5375          0.47122113      0.43095910 0.50190413      0.50000000      1
## 5376          0.48174550      0.41221745 0.48446796      0.33333333      1
## 5377          0.51226414      0.28046646 0.34543446      0.38888889      0
## 5378          0.37876520      0.35683066 0.32698460      0.27777778      0
## 5379          0.39611791      0.38077428 0.48239757      0.50000000      1
## 5380          0.34151882      0.32379177 0.43867702      0.22222222      0
## 5381          0.34748752      0.44394682 0.42352758      0.44444444      0
## 5382          0.50069582      0.52545370 0.51043435      0.66666667      1
## 5383          0.49926931      0.50525351 0.42191862      0.55555556      1
## 5384          0.67881418      0.75271669 0.60491281      0.61111111      0
```

```
## 5385        0.61575407    0.68652924 0.62138670    0.61111111    1
## 5386        0.30606787    0.30824078 0.36736822    0.44444444    0
## 5387        0.52396419    0.72007528 0.53977864    0.61111111    1
## 5388        0.41045143    0.39787127 0.46616720    0.50000000    0
## 5389        0.61123678    0.70308547 0.59802473    0.38888889    1
## 5390        0.53892083    0.56969168 0.45639582    0.50000000    1
## 5391        0.47005554    0.54355116 0.55434132    0.44444444    1
## 5392        0.60580992    0.54050736 0.45798119    0.61111111    1
## 5393        0.25271216    0.14443580 0.19335318    0.00000000    0
## 5394        0.55615334    0.43833015 0.53678976    0.50000000    1
## 5395        0.67905089    0.72591401 0.74869105    0.77777778    1
## 5396        0.27802653    0.22974548 0.28807096    0.33333333    0
## 5397        0.62865244    0.56486428 0.60744582    0.44444444    1
## 5398        0.53530296    0.41839424 0.39638210    0.44444444    0
## 5399        0.43189389    0.48425649 0.50853311    0.50000000    1
## 5400        0.40014064    0.52712788 0.49304237    0.44444444    0
## 5401        0.51480658    0.58415429 0.64902471    0.61111111    0
## 5402        0.40268696    0.35113807 0.38186627    0.38888889    0
## 5403        0.43737968    0.35819318 0.34522544    0.38888889    1
## 5404        0.48584912    0.43827676 0.39335293    0.38888889    1
## 5405        0.41399902    0.68059323 0.58032718    0.55555556    1
## 5406        0.53874938    0.65049069 0.67495376    0.83333333    1
## 5407        0.42453607    0.37632802 0.44023783    0.22222222    1
## 5408        0.34581349    0.39642412 0.43888800    0.61111111    0
## 5409        0.56634495    0.43673414 0.41496831    0.38888889    0
## 5410        0.51512082    0.48664624 0.46880345    0.38888889    0
## 5411        0.37350248    0.53577533 0.52094400    0.38888889    0
## 5412        0.39540362    0.25250827 0.38892442    0.38888889    0
## 5413        0.62076708    0.70340634 0.64803339    0.66666667    1
## 5414        0.57159205    0.31934106 0.44650293    0.33333333    0
## 5415        0.44272952    0.49062614 0.49666153    0.38888889    1
## 5416        0.62252775    0.65948006 0.53657420    0.61111111    1
## 5417        0.56290809    0.43998795 0.45587057    0.44444444    0
## 5418        0.43630507    0.51049197 0.48808741    0.61111111    1
## 5419        0.29980275    0.22593249 0.18082938    0.22222222    0
## 5420        0.50441870    0.33151370 0.31933553    0.27777778    0
## 5421        0.58553071    0.33411433 0.35013387    0.50000000    0
## 5422        0.57010383    0.61259093 0.50534283    0.61111111    1
## 5423        0.53427666    0.67498450 0.59596438    0.55555556    0
## 5424        0.51119403    0.48263617 0.41424382    0.27777778    0
## 5425        0.61906236    0.60289229 0.52294490    0.66666667    0
## 5426        0.54027954    0.42352580 0.45857280    0.61111111    0
## 5427        0.66484794    0.66736298 0.58015465    0.66666667    1
## 5428        0.42873774    0.36661555 0.39938649    0.27777778    0
## 5429        0.43150257    0.47705791 0.43761063    0.44444444    1
## 5430        0.45489458    0.37872272 0.55005471    0.50000000    0
## 5431        0.44378467    0.37054857 0.37972074    0.44444444    0
## 5432        0.63196786    0.61580076 0.54562271    0.55555556    1
## 5433        0.41287802    0.52646990 0.34790310    0.22222222    0
## 5434        0.59036949    0.73138201 0.70270358    0.61111111    1
## 5435        0.44590788    0.56712550 0.48673631    0.50000000    0
## 5436        0.48094637    0.38833901 0.49630030    0.55555556    0
## 5437        0.53193139    0.44775414 0.47626858    0.55555556    0
## 5438        0.39218313    0.45215324 0.47391055    0.50000000    0
## 5439        0.45190826    0.36422055 0.52953792    0.55555556    1
## 5440        0.49074498    0.49374599 0.41056475    0.33333333    1
## 5441        0.52095111    0.58026909 0.68444746    0.66666667    1
## 5442        0.49912824    0.46188420 0.36392344    0.44444444    0
```

629

```
## 5443            0.54089811          0.61390610 0.63700916          0.72222222   1
## 5444            0.62794909          0.57550228 0.62202512          0.66666667   1
## 5445            0.49834086          0.40642456 0.39969202          0.44444444   0
## 5446            0.56340480          0.53723758 0.49613539          0.61111111   1
## 5447            0.31113273          0.21665955 0.09699306          0.11111111   0
## 5448            0.31969438          0.11915296 0.16341394          0.11111111   0
## 5449            0.53341185          0.59518679 0.59078420          0.61111111   1
## 5450            0.58406324          0.67128245 0.57782997          0.66666667   1
## 5451            0.50152730          0.57740091 0.59767135          0.61111111   1
## 5452            0.37612877          0.34582199 0.47466891          0.44444444   0
## 5453            0.31481735          0.20373785 0.27159236          0.22222222   0
## 5454            0.44150821          0.29796571 0.27867480          0.33333333   0
## 5455            0.58535612          0.61487892 0.66218066          0.72222222   1
## 5456            0.31137282          0.28647383 0.44447309          0.44444444   0
## 5457            0.56716326          0.55350887 0.46449798          0.44444444   1
## 5458            0.44651813          0.23511621 0.32496851          0.38888889   0
## 5459            0.38811971          0.42502466 0.26601771          0.33333333   0
## 5460            0.50049806          0.44997916 0.33813580          0.33333333   0
## 5461            0.65026237          0.52196949 0.50461730          0.61111111   1
## 5462            0.71588886          0.70278251 0.64818961          0.55555556   0
## 5463            0.63267854          0.56801287 0.51853350          0.61111111   1
## 5464            0.52936858          0.67896466 0.49337855          0.44444444   1
## 5465            0.35775878          0.32402195 0.38251466          0.38888889   0
## 5466            0.29912631          0.26949112 0.37060523          0.16666667   0
## 5467            0.44948573          0.33848837 0.50871889          0.55555556   1
## 5468            0.52168398          0.47468995 0.30322733          0.27777778   0
## 5469            0.55806847          0.65191368 0.65444099          0.61111111   1
## 5470            0.44891380          0.49459791 0.54852550          0.50000000   0
## 5471            0.59130007          0.73811581 0.61924042          0.66666667   1
## 5472            0.45565247          0.38149192 0.44458339          0.50000000   1
## 5473            0.50387223          0.50934891 0.48737147          0.38888889   0
## 5474            0.33633422          0.38520556 0.39375769          0.50000000   0
## 5475            0.39846750          0.36732973 0.21305071          0.27777778   0
## 5476            0.40591551          0.29671943 0.35300830          0.27777778   0
## 5477            0.64674386          0.64067107 0.53551782          0.61111111   1
## 5478            0.60776297          0.37087810 0.31368652          0.33333333   0
## 5479            0.46064855          0.54402733 0.55389378          0.50000000   1
## 5480            0.51481859          0.49097484 0.34288757          0.33333333   0
## 5481            0.67718002          0.72445251 0.59070891          0.55555556   1
## 5482            0.43244634          0.38238679 0.42539893          0.44444444   0
## 5483            0.36915465          0.43915163 0.47533742          0.44444444   1
## 5484            0.51661786          0.58394920 0.60379815          0.61111111   1
## 5485            0.43104256          0.38057960 0.45540603          0.33333333   1
## 5486            0.33800115          0.53182058 0.69508593          0.72222222   1
## 5487            0.39103764          0.37830216 0.35653651          0.44444444   0
## 5488            0.44002435          0.39859256 0.29602232          0.38888889   0
## 5489            0.72816481          0.86208248 0.64437771          0.61111111   1
## 5490            0.38146379          0.44898825 0.41776229          0.55555556   0
## 5491            0.62929234          0.61094658 0.68429352          0.72222222   1
## 5492            0.45471275          0.43643365 0.47516499          0.50000000   0
## 5493            0.56220774          0.62961166 0.41229091          0.44444444   0
## 5494            0.58966344          0.63578984 0.59834378          0.50000000   1
## 5495            0.45472703          0.50680558 0.50536132          0.50000000   1
## 5496            0.45803657          0.48012577 0.40771475          0.44444444   0
## 5497            0.53912552          0.56669749 0.45510462          0.55555556   0
## 5498            0.51295519          0.44157726 0.36276557          0.38888889   0
## 5499            0.62325341          0.57630943 0.57528559          0.61111111   0
## 5500            0.56885662          0.51871062 0.55065618          0.50000000   1
```

```
## 5501          0.42063320          0.48578844 0.40805244          0.44444444   0
## 5502          0.48169069          0.51357851 0.41438977          0.38888889   0
## 5503          0.55106102          0.43096802 0.52928811          0.44444444   1
## 5504          0.50769981          0.48008371 0.43054994          0.50000000   0
## 5505          0.52642541          0.52983171 0.54008504          0.55555556   0
## 5506          0.46669536          0.37858404 0.25670596          0.27777778   0
## 5507          0.48433422          0.40059271 0.59721988          0.55555556   0
## 5508          0.64829220          0.50517673 0.47989887          0.33333333   0
## 5509          0.40875578          0.37261473 0.43705593          0.55555556   0
## 5510          0.47991485          0.67395943 0.56602888          0.55555556   1
## 5511          0.61948174          0.59673082 0.63564207          0.72222222   1
## 5512          0.62782147          0.55092882 0.50196043          0.33333333   0
## 5513          0.54874622          0.49215916 0.46520426          0.44444444   0
## 5514          0.53671799          0.53115359 0.47924329          0.44444444   0
## 5515          0.47926206          0.37454498 0.30159317          0.33333333   0
## 5516          0.65796747          0.53088400 0.57643867          0.50000000   1
## 5517          0.44011924          0.37508281 0.44685831          0.44444444   1
## 5518          0.53588051          0.50924984 0.44799832          0.44444444   0
## 5519          0.54517320          0.52309117 0.48388073          0.61111111   1
## 5520          0.53976818          0.54466013 0.59347866          0.44444444   0
## 5521          0.71876849          0.76736814 0.48508647          0.33333333   1
## 5522          0.53035799          0.44902823 0.50785621          0.55555556   0
## 5523          0.47191550          0.30509253 0.49615988          0.44444444   1
## 5524          0.50847107          0.41777402 0.47123632          0.50000000   1
## 5525          0.63349428          0.54368387 0.63575698          0.44444444   1
## 5526          0.56680809          0.52365590 0.54383946          0.38888889   1
## 5527          0.46295322          0.37242238 0.32808430          0.38888889   0
## 5528          0.59380305          0.49285003 0.34181494          0.44444444   0
## 5529          0.50891708          0.49447877 0.41042732          0.44444444   0
## 5530          0.35845040          0.32842990 0.38309034          0.38888889   0
## 5531          0.51492899          0.56432802 0.59557570          0.66666667   1
## 5532          0.64110959          0.68113638 0.74246800          0.61111111   1
## 5533          0.63206043          0.40581199 0.40044383          0.50000000   1
## 5534          0.60245642          0.74156533 0.46572867          0.38888889   0
## 5535          0.41387391          0.35629664 0.48655283          0.61111111   1
## 5536          0.56658875          0.54522856 0.52318276          0.44444444   0
## 5537          0.55841609          0.68017794 0.55095505          0.55555556   0
## 5538          0.42596197          0.45723195 0.53276571          0.50000000   1
## 5539          0.52209145          0.46830241 0.53928361          0.55555556   0
## 5540          0.59423991          0.66596065 0.57821957          0.50000000   1
## 5541          0.46552595          0.42635722 0.41432796          0.55555556   0
## 5542          0.47365256          0.43884005 0.37787533          0.44444444   1
## 5543          0.45956975          0.41988933 0.46721321          0.50000000   1
## 5544          0.65660619          0.64315481 0.59213624          0.55555556   1
## 5545          0.36334017          0.49821815 0.58673656          0.66666667   1
## 5546          0.46331496          0.36310282 0.48687005          0.50000000   0
## 5547          0.54896578          0.58429162 0.54617707          0.38888889   0
## 5548          0.44907786          0.39477590 0.53479988          0.50000000   1
## 5549          0.45921034          0.40782184 0.43228095          0.44444444   0
## 5550          0.58291836          0.57695606 0.50798496          0.61111111   0
## 5551          0.41621705          0.35357339 0.32219571          0.33333333   0
## 5552          0.37613423          0.38484087 0.41849022          0.38888889   0
## 5553          0.38953930          0.57459546 0.46497127          0.61111111   0
## 5554          0.52675531          0.58914992 0.39627108          0.33333333   0
## 5555          0.48635824          0.49085440 0.40368699          0.44444444   0
## 5556          0.44143522          0.40981412 0.43063430          0.44444444   0
## 5557          0.57818559          0.62680277 0.47792513          0.50000000   1
## 5558          0.70107784          0.83096329 0.55743061          0.50000000   1
```

```
## 5559          0.43161288        0.49405194 0.50269190        0.55555556   0
## 5560          0.55115982        0.61328907 0.69240506        0.61111111   0
## 5561          0.45269614        0.46700859 0.51938670        0.44444444   1
## 5562          0.54682821        0.68923090 0.64038522        0.55555556   0
## 5563          0.56168489        0.66856842 0.68098494        0.83333333   1
## 5564          0.66097055        0.64755150 0.64240208        0.72222222   1
## 5565          0.50099869        0.47583569 0.41894326        0.38888889   1
## 5566          0.41637766        0.37955560 0.34274831        0.55555556   0
## 5567          0.54315472        0.60599458 0.57634967        0.61111111   0
## 5568          0.48754186        0.54448082 0.56067252        0.61111111   1
## 5569          0.57717021        0.55048630 0.54599029        0.44444444   1
## 5570          0.56206181        0.53856709 0.49427843        0.55555556   0
## 5571          0.44180185        0.54289685 0.43351881        0.38888889   0
## 5572          0.54605257        0.51665963 0.57087810        0.61111111   1
## 5573          0.59455886        0.47963222 0.41895542        0.44444444   0
## 5574          0.42593465        0.46305654 0.44613194        0.38888889   0
## 5575          0.56343883        0.56000250 0.42402663        0.38888889   1
## 5576          0.53262385        0.56920300 0.57638806        0.50000000   1
## 5577          0.54283998        0.43719988 0.47585130        0.44444444   0
## 5578          0.52105713        0.46834191 0.29056318        0.33333333   0
## 5579          0.53335250        0.55115346 0.53831652        0.55555556   0
## 5580          0.48657657        0.39493334 0.40270750        0.50000000   0
## 5581          0.70797587        0.74525003 0.59206002        0.66666667   0
## 5582          0.58514601        0.49869301 0.47354694        0.50000000   0
## 5583          0.53106966        0.62119657 0.58532510        0.55555556   1
## 5584          0.53968342        0.54461079 0.67577563        0.72222222   1
## 5585          0.44586665        0.38882182 0.45963980        0.44444444   1
## 5586          0.37615562        0.40750376 0.34428396        0.38888889   1
## 5587          0.62875167        0.60964836 0.58832540        0.61111111   1
## 5588          0.51591012        0.50485240 0.51494272        0.55555556   1
## 5589          0.41271581        0.39856748 0.46082919        0.44444444   0
## 5590          0.49738689        0.45148734 0.52849295        0.55555556   1
## 5591          0.59079733        0.64005889 0.75810565        0.83333333   1
## 5592          0.52637968        0.60819231 0.31589984        0.27777778   0
## 5593          0.50052653        0.44707175 0.44491251        0.55555556   0
## 5594          0.44415946        0.53194560 0.46957484        0.50000000   1
## 5595          0.58603854        0.64399360 0.54584406        0.44444444   1
## 5596          0.54631965        0.55735643 0.51622955        0.55555556   1
## 5597          0.56657967        0.60758681 0.50916063        0.50000000   1
## 5598          0.62745067        0.67553372 0.56232475        0.38888889   1
## 5599          0.43272416        0.48710635 0.61397859        0.83333333   0
## 5600          0.58577844        0.50803805 0.55574408        0.44444444   1
## 5601          0.66306152        0.63377552 0.62112874        0.66666667   1
## 5602          0.63667863        0.70276211 0.55544216        0.55555556   1
## 5603          0.39943219        0.45437543 0.51281789        0.38888889   1
## 5604          0.45798588        0.27942037 0.28208786        0.27777778   1
## 5605          0.40940479        0.36648728 0.47770561        0.50000000   0
## 5606          0.46699004        0.50512150 0.44963784        0.22222222   1
## 5607          0.49158981        0.52539446 0.54242990        0.72222222   1
## 5608          0.50877423        0.53788666 0.55948234        0.61111111   1
## 5609          0.65418598        0.62666087 0.63437792        0.72222222   1
## 5610          0.57299550        0.54767213 0.40338723        0.44444444   0
## 5611          0.47943954        0.42149137 0.51417065        0.50000000   0
## 5612          0.42430259        0.40155967 0.36176754        0.38888889   0
## 5613          0.48462945        0.46702294 0.46896531        0.44444444   1
## 5614          0.50086604        0.44330137 0.45496318        0.61111111   0
## 5615          0.42308466        0.39324258 0.44010905        0.50000000   0
## 5616          0.53807435        0.58843993 0.56581619        0.66666667   0
```

```
## 5617          0.62547068          0.64295186 0.71387512          0.77777778   0
## 5618          0.63288808          0.74210927 0.64551561          0.77777778   1
## 5619          0.30830737          0.29528731 0.23007924          0.22222222   0
## 5620          0.62818550          0.61702032 0.69959787          0.83333333   1
## 5621          0.49457151          0.49914723 0.49440248          0.38888889   1
## 5622          0.46242545          0.41995139 0.36896419          0.44444444   0
## 5623          0.54441498          0.62740361 0.66508012          0.72222222   1
## 5624          0.64560693          0.72347566 0.53500392          0.61111111   1
## 5625          0.48803814          0.39598721 0.53113910          0.61111111   1
## 5626          0.55246483          0.59055911 0.51903155          0.38888889   1
## 5627          0.49487160          0.44114980 0.52923272          0.61111111   0
## 5628          0.63306550          0.62864700 0.52394319          0.55555556   1
## 5629          0.51167135          0.42278300 0.50691305          0.66666667   1
## 5630          0.38846305          0.37073045 0.40320693          0.38888889   0
## 5631          0.59969393          0.75140037 0.66378048          0.66666667   1
## 5632          0.38150549          0.39481428 0.30325503          0.27777778   0
## 5633          0.48664710          0.52720600 0.55586381          0.55555556   1
## 5634          0.62496229          0.63123896 0.48565976          0.44444444   1
## 5635          0.38631457          0.39612872 0.43647121          0.38888889   0
## 5636          0.53589189          0.45451445 0.41293353          0.38888889   0
## 5637          0.51983252          0.47257668 0.45655143          0.44444444   1
## 5638          0.42320932          0.29947962 0.40458529          0.44444444   1
## 5639          0.42389823          0.40125924 0.31231784          0.27777778   0
## 5640          0.56770511          0.63106877 0.40735231          0.33333333   1
## 5641          0.49260778          0.45283265 0.38864107          0.44444444   0
## 5642          0.53545700          0.56376156 0.47464157          0.44444444   0
## 5643          0.51189378          0.50807674 0.38631221          0.44444444   0
## 5644          0.70190083          0.76025859 0.53335277          0.50000000   0
## 5645          0.56143652          0.58569048 0.49099014          0.50000000   1
## 5646          0.59497066          0.63295033 0.61937130          0.72222222   1
## 5647          0.55534307          0.64551100 0.62184989          0.61111111   1
## 5648          0.56362636          0.54742913 0.48244434          0.38888889   0
## 5649          0.33816443          0.32166223 0.31797152          0.44444444   0
## 5650          0.49304025          0.55682171 0.55074466          0.50000000   1
## 5651          0.57482089          0.47052161 0.43857571          0.55555556   0
## 5652          0.51433705          0.53085418 0.46021960          0.38888889   0
## 5653          0.37127056          0.39739446 0.39356678          0.16666667   0
## 5654          0.52524921          0.53064553 0.46706686          0.38888889   1
## 5655          0.44515983          0.34557234 0.44467354          0.61111111   0
## 5656          0.42525866          0.40057889 0.45314585          0.38888889   1
## 5657          0.41762688          0.31744742 0.41720075          0.55555556   0
## 5658          0.26307167          0.14051757 0.31022967          0.33333333   0
## 5659          0.45087724          0.49833186 0.54983974          0.72222222   1
## 5660          0.52257835          0.45756494 0.45241467          0.44444444   1
## 5661          0.41864485          0.60247357 0.53572737          0.61111111   1
## 5662          0.40171380          0.52404295 0.55567681          0.55555556   0
## 5663          0.45554056          0.39954099 0.39110713          0.44444444   0
## 5664          0.35988376          0.32126967 0.40172659          0.38888889   0
## 5665          0.63586904          0.63780566 0.50067709          0.55555556   1
## 5666          0.32720346          0.22632322 0.21678139          0.22222222   0
## 5667          0.36543173          0.43688864 0.35807045          0.27777778   0
## 5668          0.58941324          0.62752052 0.55334666          0.44444444   1
## 5669          0.58650150          0.56433611 0.48947335          0.44444444   1
## 5670          0.53113679          0.53132713 0.44952946          0.50000000   1
## 5671          0.54226472          0.56912351 0.56086223          0.66666667   0
## 5672          0.63667129          0.56981970 0.55529336          0.77777778   1
## 5673          0.69827423          0.71331037 0.64425402          0.72222222   1
## 5674          0.34227479          0.30294794 0.42533076          0.44444444   1
```

```
## 5675             0.62399976        0.64036691 0.48516468    0.44444444   1
## 5676             0.42576469        0.32115346 0.37616231    0.44444444   0
## 5677             0.48023269        0.39136885 0.43543634    0.38888889   0
## 5678             0.36678941        0.46006389 0.46214468    0.50000000   0
## 5679             0.48201406        0.49957560 0.52698365    0.44444444   0
## 5680             0.58327270        0.60884651 0.71550254    0.72222222   1
## 5681             0.56331687        0.67121326 0.59572324    0.61111111   1
## 5682             0.47436232        0.53087599 0.50532873    0.55555556   1
## 5683             0.59673776        0.57479292 0.62388003    0.66666667   1
## 5684             0.63358946        0.68024032 0.56222467    0.61111111   0
## 5685             0.37372372        0.39705497 0.39859634    0.38888889   0
## 5686             0.53466018        0.45252137 0.41711314    0.44444444   0
## 5687             0.45818748        0.52033201 0.53055525    0.55555556   0
## 5688             0.51590543        0.54281166 0.68066811    0.61111111   1
## 5689             0.64024561        0.66591050 0.59604154    0.61111111   1
## 5690             0.44372748        0.42519349 0.33706974    0.33333333   0
## 5691             0.44771209        0.52551799 0.48457787    0.50000000   1
## 5692             0.52377150        0.55106340 0.66023168    0.66666667   1
## 5693             0.43105443        0.35918706 0.44387323    0.50000000   1
## 5694             0.45283383        0.52877109 0.38480108    0.44444444   0
## 5695             0.47829732        0.46557523 0.43176883    0.50000000   0
## 5696             0.64932030        0.44097199 0.48852363    0.55555556   0
## 5697             0.70587161        0.78002560 0.57345422    0.44444444   1
## 5698             0.50982673        0.46935485 0.41934397    0.22222222   1
## 5699             0.54074998        0.60472246 0.59118231    0.61111111   1
## 5700             0.49194814        0.38523572 0.43236800    0.38888889   1
## 5701             0.50784144        0.37636786 0.49634000    0.66666667   1
## 5702             0.59402912        0.42414655 0.43613651    0.22222222   0
## 5703             0.39381520        0.30370773 0.48026353    0.44444444   0
## 5704             0.47765907        0.44655131 0.44182092    0.55555556   0
## 5705             0.41241719        0.45271108 0.42347727    0.61111111   1
## 5706             0.45013416        0.47356652 0.58724897    0.44444444   1
## 5707             0.65788255        0.43907254 0.46257941    0.44444444   0
## 5708             0.52958633        0.59143664 0.60553752    0.50000000   0
## 5709             0.51123096        0.35035956 0.40152899    0.50000000   0
## 5710             0.52890840        0.61747866 0.54781246    0.55555556   1
## 5711             0.47650319        0.44993785 0.44998947    0.55555556   1
## 5712             0.61246892        0.52339652 0.50083765    0.55555556   1
## 5713             0.52634763        0.64717007 0.48020089    0.27777778   0
## 5714             0.53360923        0.36561429 0.45493039    0.50000000   0
## 5715             0.58114948        0.33400543 0.41333765    0.38888889   1
## 5716             0.48403987        0.48121761 0.58873743    0.50000000   0
## 5717             0.53570505        0.46715888 0.41997675    0.50000000   0
## 5718             0.60566010        0.55097366 0.56752071    0.66666667   1
## 5719             0.49357665        0.45587065 0.52900085    0.72222222   0
## 5720             0.59507111        0.58522137 0.50261350    0.61111111   1
## 5721             0.58995908        0.55712048 0.40072232    0.55555556   1
## 5722             0.45770874        0.38967016 0.44457375    0.27777778   0
## 5723             0.54126933        0.53798540 0.59986066    0.61111111   0
## 5724             0.74577342        0.76914757 0.69274702    0.72222222   1
## 5725             0.35631090        0.37112652 0.21641837    0.33333333   0
## 5726             0.57927075        0.77447647 0.52041733    0.61111111   1
## 5727             0.39673608        0.40410537 0.41374912    0.33333333   1
## 5728             0.56854373        0.67038360 0.58325495    0.55555556   1
## 5729             0.58756574        0.51928185 0.51682143    0.44444444   0
## 5730             0.59145705        0.63017186 0.45944306    0.66666667   1
## 5731             0.48477199        0.37714273 0.39171773    0.33333333   0
## 5732             0.47575893        0.39307387 0.44365301    0.44444444   1
```

634

```
## 5733          0.61443491          0.47422593 0.45003834          0.66666667   1
## 5734          0.45431790          0.49030636 0.43622338          0.44444444   0
## 5735          0.57487280          0.52885969 0.50167573          0.55555556   1
## 5736          0.40440512          0.38517043 0.31755268          0.44444444   1
## 5737          0.60457017          0.63032937 0.65871240          0.55555556   1
## 5738          0.64553726          0.59190199 0.44983644          0.38888889   0
## 5739          0.63134042          0.71064623 0.69599090          0.66666667   1
## 5740          0.53455127          0.53540157 0.57048843          0.50000000   1
## 5741          0.64766488          0.72114317 0.56845977          0.61111111   1
## 5742          0.61986552          0.64058723 0.64840141          0.66666667   1
## 5743          0.66890419          0.75848258 0.70571043          0.77777778   1
## 5744          0.53977641          0.51441639 0.49733332          0.50000000   1
## 5745          0.38841906          0.19290264 0.32926833          0.38888889   0
## 5746          0.36698106          0.40229346 0.44007234          0.38888889   1
## 5747          0.51337474          0.61495414 0.55568584          0.50000000   1
## 5748          0.38105081          0.40712892 0.42585802          0.55555556   1
## 5749          0.50290901          0.41312883 0.41247926          0.33333333   0
## 5750          0.43914200          0.36829349 0.43367011          0.50000000   0
## 5751          0.39193259          0.28335794 0.49772874          0.50000000   1
## 5752          0.63449721          0.59833925 0.56957298          0.50000000   1
## 5753          0.46551594          0.51036381 0.35277490          0.38888889   0
## 5754          0.52732743          0.42342559 0.39540308          0.33333333   0
## 5755          0.45074106          0.43835126 0.46907176          0.44444444   0
## 5756          0.56642584          0.60682181 0.57541888          0.55555556   0
## 5757          0.48604190          0.49049288 0.47927072          0.55555556   1
## 5758          0.56738207          0.47154348 0.48476872          0.50000000   0
## 5759          0.40036899          0.34342824 0.34441732          0.44444444   0
## 5760          0.63938201          0.68996721 0.72092136          0.77777778   1
## 5761          0.31573002          0.54146010 0.43181488          0.66666667   0
## 5762          0.48237083          0.52873581 0.51128145          0.50000000   1
## 5763          0.44229048          0.42282525 0.44840376          0.44444444   0
## 5764          0.49660752          0.49104803 0.52468931          0.50000000   0
## 5765          0.42910940          0.38575635 0.40088071          0.33333333   1
## 5766          0.60387206          0.50579728 0.54735969          0.61111111   1
## 5767          0.43443633          0.36326225 0.40634876          0.50000000   0
## 5768          0.59717084          0.56775193 0.56181386          0.55555556   0
## 5769          0.43717639          0.29846164 0.37783772          0.44444444   0
## 5770          0.49367454          0.57661864 0.59222010          0.55555556   1
## 5771          0.57374862          0.60708229 0.51176134          0.50000000   0
## 5772          0.74974450          0.85791271 0.61856416          0.66666667   1
## 5773          0.31063362          0.40524349 0.45310275          0.38888889   0
## 5774          0.57147790          0.59924511 0.55672339          0.50000000   1
## 5775          0.63838785          0.59986835 0.61337674          0.66666667   0
## 5776          0.57394371          0.66805492 0.68823210          0.77777778   1
## 5777          0.58912523          0.51570884 0.43193525          0.55555556   0
## 5778          0.48185510          0.50162202 0.53515738          0.72222222   0
## 5779          0.47237174          0.52876734 0.50628498          0.55555556   1
## 5780          0.43764877          0.36432896 0.49483552          0.44444444   1
## 5781          0.45168944          0.44942374 0.42202422          0.44444444   1
## 5782          0.56651885          0.74816382 0.56989783          0.66666667   0
## 5783          0.51849314          0.51575885 0.44595123          0.50000000   0
## 5784          0.60840333          0.50470040 0.54231369          0.55555556   1
## 5785          0.52246683          0.59412441 0.59735119          0.72222222   0
## 5786          0.42999637          0.41066928 0.45801802          0.50000000   0
## 5787          0.58668665          0.44329020 0.46888138          0.55555556   0
## 5788          0.41013354          0.36668936 0.31095817          0.33333333   0
## 5789          0.47468693          0.48941773 0.49238830          0.44444444   0
## 5790          0.40009429          0.42054795 0.35190749          0.50000000   0
```

## 5791	0.29629339	0.31168585	0.24669575	0.27777778	0
## 5792	0.62617442	0.62822158	0.59606983	0.61111111	1
## 5793	0.48706627	0.54765834	0.47870417	0.44444444	0
## 5794	0.47429324	0.42780714	0.42163140	0.27777778	1
## 5795	0.58086618	0.60680832	0.55835111	0.55555556	0
## 5796	0.49656624	0.43248650	0.30942586	0.27777778	0
## 5797	0.53092262	0.52472279	0.43850208	0.61111111	1
## 5798	0.46610835	0.56141388	0.57592930	0.55555556	1
## 5799	0.56937863	0.57456471	0.49053350	0.44444444	0
## 5800	0.55052932	0.50751368	0.39949516	0.50000000	1
## 5801	0.62767903	0.60855097	0.61313559	0.66666667	1
## 5802	0.59908625	0.65198868	0.60732890	0.61111111	0
## 5803	0.57340645	0.65387731	0.52473970	0.33333333	1
## 5804	0.37626484	0.43154956	0.43847383	0.33333333	1
## 5805	0.35890782	0.25482509	0.27121701	0.27777778	0
## 5806	0.67720580	0.74037680	0.67343291	0.66666667	1
## 5807	0.54593880	0.50258045	0.48399181	0.50000000	0
## 5808	0.53435287	0.52355421	0.38159180	0.33333333	1
## 5809	0.44502203	0.48963321	0.51840663	0.61111111	0
## 5810	0.59865837	0.57733140	0.59571735	0.55555556	1
## 5811	0.45151358	0.36926843	0.30658052	0.33333333	0
## 5812	0.58703712	0.74971122	0.57572819	0.50000000	1
## 5813	0.28582604	0.31149923	0.31761584	0.16666667	0
## 5814	0.27147337	0.18498418	0.23943711	0.33333333	0
## 5815	0.47886487	0.52962969	0.55154384	0.55555556	0
## 5816	0.44878439	0.43941649	0.46375240	0.38888889	0
## 5817	0.41602538	0.48693144	0.35399227	0.22222222	0
## 5818	0.41237500	0.25097596	0.21166974	0.27777778	0
## 5819	0.45871804	0.44971827	0.42273436	0.44444444	0
## 5820	0.57793876	0.59130791	0.53825422	0.44444444	0
## 5821	0.49367909	0.45057771	0.50939410	0.38888889	1
## 5822	0.46847489	0.44625891	0.49037074	0.38888889	0
## 5823	0.53295472	0.63551282	0.48836153	0.50000000	1
## 5824	0.50766413	0.44008625	0.47890933	0.50000000	0
## 5825	0.60443890	0.63876701	0.58117432	0.55555556	1
## 5826	0.58393532	0.49914098	0.44187037	0.44444444	1
## 5827	0.58565351	0.53256407	0.41806070	0.38888889	1
## 5828	0.53596082	0.47538818	0.49508405	0.33333333	0
## 5829	0.43720510	0.34620358	0.41961258	0.27777778	1
## 5830	0.44499593	0.40675742	0.47346422	0.44444444	1
## 5831	0.58317146	0.60025016	0.55431706	0.55555556	0
## 5832	0.57550950	0.62911990	0.59250433	0.55555556	0
## 5833	0.40283558	0.38355658	0.40539233	0.72222222	0
## 5834	0.39372802	0.46232204	0.49698418	0.33333333	0
## 5835	0.53224263	0.57616707	0.46020511	0.55555556	1
## 5836	0.51508037	0.46136783	0.59077182	0.72222222	1
## 5837	0.47343931	0.44670917	0.40152899	0.33333333	0
## 5838	0.48092824	0.53817606	0.41721403	0.38888889	1
## 5839	0.40538312	0.32516615	0.37717246	0.44444444	0
## 5840	0.49843981	0.39061059	0.25588137	0.33333333	0
## 5841	0.48139928	0.35247345	0.58287578	0.55555556	0
## 5842	0.57073942	0.55024766	0.41354641	0.50000000	0
## 5843	0.44747656	0.51402235	0.59457579	0.50000000	1
## 5844	0.36904968	0.37671856	0.39141224	0.50000000	0
## 5845	0.54885283	0.33501711	0.34143499	0.38888889	0
## 5846	0.70248408	0.64795089	0.61777219	0.66666667	1
## 5847	0.32072329	0.32653661	0.32091363	0.44444444	0
## 5848	0.36171320	0.25287800	0.26691327	0.27777778	0

```
## 5849            0.42949612           0.36548751 0.38651877           0.22222222   1
## 5850            0.58331940           0.73024861 0.59150236           0.50000000   1
## 5851            0.53003168           0.51229663 0.65740359           0.72222222   0
## 5852            0.47055910           0.47320890 0.38491873           0.38888889   0
## 5853            0.54049237           0.35532852 0.62663213           0.61111111   0
## 5854            0.44735579           0.37646059 0.46731885           0.50000000   0
## 5855            0.38650492           0.46627402 0.47108229           0.44444444   0
## 5856            0.51396142           0.45714542 0.41416273           0.38888889   0
## 5857            0.53591415           0.56845915 0.64767420           0.88888889   0
## 5858            0.57847026           0.60889103 0.51971062           0.44444444   0
## 5859            0.41823350           0.32780100 0.42200842           0.33333333   1
## 5860            0.47787012           0.36175559 0.52286619           0.44444444   0
## 5861            0.49042208           0.47362100 0.53147223           0.55555556   1
## 5862            0.51922809           0.53697921 0.54089480           0.66666667   0
## 5863            0.50177475           0.25348492 0.48021118           0.44444444   0
## 5864            0.53672507           0.52511844 0.65054924           0.66666667   1
## 5865            0.63685274           0.36020329 0.56707649           0.61111111   1
## 5866            0.44824900           0.39874607 0.34118787           0.27777778   0
## 5867            0.52230700           0.57091891 0.45321458           0.33333333   1
## 5868            0.53648717           0.53178023 0.52920543           0.61111111   0
## 5869            0.56002723           0.45618644 0.44388311           0.50000000   0
## 5870            0.53681543           0.58775615 0.60909840           0.77777778   1
## 5871            0.51394688           0.45036443 0.43178505           0.38888889   0
## 5872            0.45721210           0.45801530 0.55921708           0.50000000   1
## 5873            0.48455307           0.63825022 0.60566003           0.66666667   1
## 5874            0.37050139           0.48972963 0.43045536           0.44444444   0
## 5875            0.66441862           0.56779104 0.50334075           0.61111111   1
## 5876            0.51007417           0.46980105 0.54838759           0.61111111   0
## 5877            0.46010915           0.44456853 0.43762989           0.44444444   0
## 5878            0.50254325           0.43943123 0.52458152           0.72222222   1
## 5879            0.47586631           0.50118411 0.47772944           0.55555556   1
## 5880            0.52592762           0.58473696 0.60626196           0.55555556   1
## 5881            0.41836011           0.54328733 0.50161053           0.44444444   1
## 5882            0.63725864           0.69740916 0.57386887           0.55555556   0
## 5883            0.61307972           0.58839354 0.67968646           0.61111111   1
## 5884            0.47827805           0.44310153 0.51036443           0.66666667   1
## 5885            0.52597733           0.54306569 0.45818834           0.55555556   1
## 5886            0.44269333           0.48692813 0.52233203           0.44444444   0
## 5887            0.62220085           0.61859273 0.59554530           0.38888889   1
## 5888            0.46124789           0.49990899 0.52071406           0.50000000   0
## 5889            0.54877695           0.56364797 0.64713733           0.50000000   1
## 5890            0.54898506           0.58911792 0.55345412           0.44444444   1
## 5891            0.61595967           0.57259051 0.76124347           0.83333333   1
## 5892            0.35795624           0.50275810 0.55743061           0.44444444   0
## 5893            0.47483357           0.45823231 0.40304822           0.44444444   0
## 5894            0.50884774           0.52065869 0.44457375           0.50000000   1
## 5895            0.38319400           0.41401731 0.38120258           0.55555556   1
## 5896            0.57827579           0.46926196 0.39345056           0.44444444   0
## 5897            0.31661034           0.37559239 0.50918455           0.22222222   0
## 5898            0.61739711           0.46139331 0.52867610           0.44444444   1
## 5899            0.54466845           0.48585545 0.58429465           0.55555556   1
## 5900            0.51911821           0.59929746 0.53338382           0.44444444   1
## 5901            0.43206621           0.56278123 0.41551877           0.27777778   0
## 5902            0.56136714           0.53196839 0.49125741           0.55555556   0
## 5903            0.63800582           0.65971099 0.55025569           0.55555556   0
## 5904            0.36278278           0.24944959 0.44550508           0.50000000   1
## 5905            0.62892154           0.47601804 0.58699846           0.61111111   0
## 5906            0.49698860           0.54029232 0.56212637           0.50000000   1
```

```
## 5907          0.43656801        0.38700735 0.41171909        0.44444444  0
## 5908          0.42846062        0.29184862 0.32111319        0.22222222  0
## 5909          0.54665120        0.62631739 0.63433634        0.50000000  1
## 5910          0.53495119        0.64748990 0.53502075        0.44444444  0
## 5911          0.49870818        0.51394675 0.44286818        0.38888889  1
## 5912          0.52639339        0.57672184 0.62139578        0.55555556  1
## 5913          0.42841104        0.35661021 0.44365301        0.33333333  0
## 5914          0.53030451        0.51724745 0.46567413        0.44444444  0
## 5915          0.33950763        0.52359584 0.44817068        0.38888889  0
## 5916          0.32517137        0.25308368 0.23513438        0.16666667  0
## 5917          0.36908205        0.26235883 0.33082651        0.44444444  0
## 5918          0.67012723        0.62985874 0.56658907        0.55555556  0
## 5919          0.46254944        0.57321231 0.52777460        0.44444444  0
## 5920          0.58432886        0.60582925 0.64869135        0.61111111  1
## 5921          0.56772274        0.49102107 0.53166465        0.44444444  0
## 5922          0.62491046        0.80106961 0.72465686        0.72222222  0
## 5923          0.42856949        0.34828443 0.35927254        0.50000000  1
## 5924          0.41481913        0.44923210 0.53354776        0.50000000  1
## 5925          0.61631396        0.56651031 0.55229488        0.55555556  0
## 5926          0.56641101        0.51693060 0.56807527        0.61111111  0
## 5927          0.65970491        0.71541995 0.65184522        0.61111111  1
## 5928          0.60007019        0.60618109 0.56541341        0.44444444  1
## 5929          0.50803673        0.56037002 0.54981664        0.55555556  0
## 5930          0.70777229        0.74002892 0.78226857        0.72222222  1
## 5931          0.50400975        0.41737763 0.44710580        0.50000000  0
## 5932          0.64783069        0.52538063 0.59197279        0.50000000  1
## 5933          0.59296343        0.73317731 0.64234438        0.55555556  1
## 5934          0.47899398        0.48718740 0.26395625        0.38888889  1
## 5935          0.39634769        0.37549694 0.34748792        0.33333333  0
## 5936          0.57133102        0.64199453 0.62670775        0.66666667  0
## 5937          0.59389675        0.56164443 0.67959354        0.61111111  1
## 5938          0.51539904        0.62468948 0.54806942        0.50000000  1
## 5939          0.55273805        0.54775469 0.45014425        0.33333333  1
## 5940          0.57901923        0.62323957 0.53128518        0.27777778  1
## 5941          0.47439648        0.38984791 0.40363233        0.61111111  0
## 5942          0.43169376        0.35528091 0.42557097        0.27777778  0
## 5943          0.43521141        0.51301947 0.49252810        0.44444444  1
## 5944          0.43648909        0.42607363 0.45432412        0.33333333  0
## 5945          0.65980169        0.58124366 0.48106735        0.61111111  1
## 5946          0.47171405        0.50897749 0.34018243        0.33333333  0
## 5947          0.50426678        0.36532591 0.48478293        0.55555556  0
## 5948          0.47647552        0.41256510 0.44198142        0.50000000  0
## 5949          0.41324514        0.23198645 0.38785595        0.22222222  1
## 5950          0.47454189        0.51240638 0.43607915        0.44444444  0
## 5951          0.37625272        0.31076355 0.43834103        0.33333333  1
## 5952          0.44146033        0.47557444 0.45432382        0.50000000  1
## 5953          0.53013747        0.60765856 0.48711422        0.38888889  1
## 5954          0.77022459        0.68418253 0.58702169        0.55555556  1
## 5955          0.65018269        0.60709759 0.55531765        0.38888889  1
## 5956          0.41732219        0.41781153 0.43326120        0.44444444  0
## 5957          0.51822907        0.58296973 0.54585554        0.61111111  0
## 5958          0.53026470        0.38900497 0.38435965        0.38888889  0
## 5959          0.62828254        0.63436868 0.71369913        0.83333333  1
## 5960          0.63960017        0.71616052 0.60575766        0.66666667  0
## 5961          0.54334166        0.52009864 0.54815442        0.55555556  0
## 5962          0.49328802        0.49876898 0.41145344        0.44444444  0
## 5963          0.58987980        0.52191796 0.58529914        0.50000000  0
## 5964          0.58716005        0.44457129 0.48036229        0.38888889  0
```

```
## 5965         0.34702345         0.51196678 0.58913278         0.38888889   0
## 5966         0.50042828         0.41532107 0.44211649         0.44444444   0
## 5967         0.40210992         0.29387525 0.36059548         0.33333333   0
## 5968         0.54631009         0.44836868 0.47806727         0.44444444   0
## 5969         0.50309745         0.56364065 0.54963970         0.55555556   0
## 5970         0.36179957         0.31872581 0.36734639         0.50000000   0
## 5971         0.35292443         0.36615832 0.27513792         0.27777778   0
## 5972         0.55643241         0.48258210 0.43599011         0.44444444   0
## 5973         0.42480534         0.46141904 0.55168272         0.55555556   1
## 5974         0.45873985         0.37171271 0.43318218         0.50000000   0
## 5975         0.57059574         0.65832094 0.65408771         0.61111111   1
## 5976         0.47118402         0.44565531 0.47238084         0.44444444   0
## 5977         0.60844225         0.54958018 0.54938445         0.50000000   1
## 5978         0.42800218         0.50504479 0.48653565         0.44444444   0
## 5979         0.39425140         0.42915325 0.42851193         0.33333333   0
## 5980         0.45517256         0.36970574 0.48081443         0.38888889   0
## 5981         0.51940185         0.46444474 0.49180891         0.38888889   1
## 5982         0.43072689         0.51588745 0.51797470         0.61111111   0
## 5983         0.48156281         0.48004932 0.37900888         0.27777778   0
## 5984         0.51794792         0.33800046 0.44383989         0.38888889   1
## 5985         0.46234848         0.35570413 0.19771949         0.27777778   0
## 5986         0.50551913         0.50336243 0.46928710         0.55555556   1
## 5987         0.51439334         0.53593904 0.47270955         0.61111111   1
## 5988         0.67586264         0.46593565 0.48042984         0.55555556   0
## 5989         0.50951959         0.54271255 0.49284010         0.44444444   1
## 5990         0.38085510         0.26399131 0.32416877         0.44444444   0
## 5991         0.49666717         0.46218869 0.24920074         0.27777778   1
## 5992         0.38949213         0.21780449 0.32272985         0.38888889   0
## 5993         0.42564956         0.32309422 0.44822775         0.38888889   0
## 5994         0.48205186         0.43878952 0.41389984         0.50000000   0
## 5995         0.50372885         0.62605725 0.56862782         0.61111111   1
## 5996         0.48331510         0.45278915 0.53347666         0.38888889   0
## 5997         0.49536026         0.56346091 0.52031492         0.55555556   0
## 5998         0.72172705         0.73304431 0.67225549         0.61111111   1
## 5999         0.37487215         0.30634851 0.24012395         0.16666667   0
## 6000         0.36100266         0.19006643 0.36285150         0.33333333   1
## 6001         0.54805969         0.39752635 0.40068498         0.27777778   0
## 6002         0.39441148         0.40784079 0.36598076         0.38888889   0
## 6003         0.35845744         0.55848576 0.41792065         0.50000000   1
## 6004         0.52172093         0.45367484 0.58789732         0.83333333   1
## 6005         0.72264617         0.43187839 0.24275744         0.38888889   0
## 6006         0.51225970         0.46341748 0.53443279         0.44444444   0
## 6007         0.49408691         0.40276615 0.40338015         0.50000000   0
## 6008         0.63555476         0.78773691 0.60710948         0.61111111   1
## 6009         0.56475982         0.51783083 0.46274490         0.61111111   0
## 6010         0.38972491         0.51058517 0.54798779         0.50000000   1
## 6011         0.38689097         0.31423200 0.42846932         0.44444444   1
## 6012         0.46152830         0.37781195 0.42338196         0.38888889   0
## 6013         0.31719383         0.25297263 0.24992074         0.11111111   0
## 6014         0.50425545         0.46332021 0.52306714         0.66666667   0
## 6015         0.47878767         0.45243564 0.49701273         0.44444444   1
## 6016         0.60751039         0.46551290 0.38544281         0.22222222   0
## 6017         0.60732837         0.55648119 0.47108375         0.44444444   0
## 6018         0.60760618         0.48104223 0.57456673         0.44444444   0
## 6019         0.41878404         0.31068582 0.30886672         0.33333333   0
## 6020         0.47029918         0.33172389 0.33845159         0.38888889   0
## 6021         0.45688081         0.56717854 0.61153525         0.44444444   0
## 6022         0.40422013         0.33892662 0.37664589         0.44444444   0
```

639

```
## 6023          0.50642448          0.49516430 0.40248866          0.44444444   0
## 6024          0.46731383          0.52768538 0.54384175          0.61111111   1
## 6025          0.65628014          0.61136861 0.69641379          0.83333333   1
## 6026          0.55383418          0.54967247 0.60398248          0.55555556   1
## 6027          0.66426077          0.64893613 0.60647531          0.66666667   0
## 6028          0.37640061          0.40132538 0.42567321          0.44444444   1
## 6029          0.58493474          0.63795098 0.58303366          0.83333333   1
## 6030          0.73317316          0.87353042 0.68385622          0.66666667   1
## 6031          0.64493281          0.63186273 0.55336161          0.50000000   1
## 6032          0.51199970          0.60139262 0.39719250          0.55555556   1
## 6033          0.53386703          0.43894824 0.52158737          0.61111111   1
## 6034          0.41530851          0.45790470 0.39968295          0.38888889   0
## 6035          0.28000163          0.17769524 0.24475163          0.44444444   0
## 6036          0.59094059          0.64123348 0.73357889          0.77777778   1
## 6037          0.42176667          0.43858497 0.48545644          0.55555556   1
## 6038          0.30912328          0.33886154 0.40741171          0.27777778   0
## 6039          0.69686393          0.70245742 0.65663342          0.55555556   1
## 6040          0.45749984          0.29226407 0.31077518          0.27777778   0
## 6041          0.57613670          0.49087849 0.55974996          0.50000000   1
## 6042          0.54574276          0.61842818 0.59204590          0.55555556   1
## 6043          0.45006338          0.26609156 0.27778764          0.16666667   0
## 6044          0.63340061          0.69450666 0.75833181          0.77777778   1
## 6045          0.44006310          0.34768874 0.38202424          0.33333333   0
## 6046          0.60446918          0.61764744 0.74596381          0.72222222   0
## 6047          0.56851482          0.56052922 0.58245715          0.77777778   1
## 6048          0.54149984          0.63975104 0.67888528          0.61111111   1
## 6049          0.53553267          0.75151649 0.57668691          0.72222222   1
## 6050          0.47697175          0.46635723 0.38597405          0.44444444   0
## 6051          0.44096733          0.37552630 0.35383260          0.38888889   0
## 6052          0.65056103          0.59969478 0.67701047          0.83333333   1
## 6053          0.36241104          0.43725242 0.51304446          0.61111111   0
## 6054          0.48810328          0.48245400 0.52792126          0.55555556   1
## 6055          0.33304484          0.39817910 0.29252274          0.33333333   0
## 6056          0.44169003          0.52423962 0.65600618          0.50000000   1
## 6057          0.51181670          0.55977821 0.65555792          0.61111111   1
## 6058          0.55302590          0.50347567 0.50402133          0.38888889   0
## 6059          0.22143481          0.24483054 0.26422853          0.27777778   0
## 6060          0.25197040          0.23039949 0.28457869          0.38888889   0
## 6061          0.56775338          0.49346250 0.48960520          0.50000000   1
## 6062          0.60904628          0.68420543 0.63765003          0.66666667   1
## 6063          0.58174687          0.74138068 0.62129302          0.44444444   1
## 6064          0.58131855          0.44722910 0.57952099          0.50000000   1
## 6065          0.62398669          0.76950339 0.66288553          0.55555556   1
## 6066          0.59158591          0.60744061 0.68507366          0.66666667   1
## 6067          0.54947485          0.44140664 0.52244654          0.44444444   1
## 6068          0.53089297          0.39193386 0.52681896          0.33333333   0
## 6069          0.41726692          0.35945185 0.39611282          0.38888889   0
## 6070          0.39288988          0.42477780 0.35263162          0.38888889   0
## 6071          0.55402896          0.53834682 0.69573557          0.83333333   1
## 6072          0.54146697          0.58165927 0.44647985          0.50000000   0
## 6073          0.45667155          0.41395794 0.41849392          0.38888889   0
## 6074          0.47699656          0.34768185 0.30535994          0.22222222   1
## 6075          0.43414060          0.42243331 0.40858760          0.55555556   1
## 6076          0.52891298          0.54273332 0.53341235          0.44444444   0
## 6077          0.59167242          0.56426126 0.62561495          0.55555556   1
## 6078          0.22161398          0.21467955 0.27358120          0.27777778   0
## 6079          0.47534161          0.37652619 0.37849944          0.38888889   0
## 6080          0.44583663          0.36232340 0.46472958          0.55555556   0
```

```
## 6081          0.62202356          0.74910272 0.69433847          0.55555556    1
## 6082          0.49984987          0.56731570 0.61221222          0.66666667    1
## 6083          0.53924463          0.51900858 0.57745037          0.50000000    1
## 6084          0.36706072          0.36972773 0.37277907          0.44444444    0
## 6085          0.48447130          0.50424947 0.49807169          0.38888889    1
## 6086          0.38902498          0.49406416 0.52574937          0.61111111    0
## 6087          0.62008323          0.60970229 0.59016590          0.55555556    1
## 6088          0.42632322          0.46214992 0.46226687          0.55555556    0
## 6089          0.52359426          0.50774130 0.60723391          0.66666667    1
## 6090          0.46042121          0.52140296 0.38830465          0.44444444    0
## 6091          0.39899976          0.49394431 0.41946245          0.38888889    0
## 6092          0.51157130          0.59778924 0.67360594          0.72222222    1
## 6093          0.54662283          0.60539013 0.57239141          0.55555556    1
## 6094          0.50772477          0.52719079 0.53501884          0.50000000    1
## 6095          0.59267857          0.63913882 0.52270024          0.50000000    0
## 6096          0.47624211          0.45993727 0.43425005          0.55555556    0
## 6097          0.45948039          0.57209967 0.54395064          0.61111111    1
## 6098          0.51800807          0.59368890 0.47816779          0.50000000    0
## 6099          0.37144146          0.59589267 0.63233461          0.50000000    1
## 6100          0.62212877          0.65488135 0.55912695          0.61111111    0
## 6101          0.55849610          0.49619552 0.46047155          0.50000000    0
## 6102          0.67678671          0.61180996 0.46436426          0.55555556    1
## 6103          0.57188369          0.66964169 0.60404371          0.61111111    1
## 6104          0.56869399          0.43343113 0.22249163          0.33333333    0
## 6105          0.56030455          0.72383202 0.61295222          0.61111111    1
## 6106          0.44325678          0.56789327 0.45934678          0.33333333    0
## 6107          0.50944791          0.68434445 0.69143901          0.72222222    1
## 6108          0.58055844          0.67563434 0.48835362          0.50000000    1
## 6109          0.47479386          0.53233526 0.46505271          0.61111111    0
## 6110          0.54944392          0.66259125 0.53698628          0.55555556    0
## 6111          0.46471258          0.43802835 0.41307117          0.27777778    0
## 6112          0.43240690          0.28363818 0.44475353          0.44444444    1
## 6113          0.53683301          0.53705196 0.46757984          0.44444444    0
## 6114          0.43759820          0.48102152 0.59360267          0.50000000    1
## 6115          0.48140045          0.42319252 0.42398181          0.33333333    1
## 6116          0.56262100          0.61280298 0.54217257          0.33333333    1
## 6117          0.38190288          0.38913851 0.40393522          0.50000000    0
## 6118          0.40599521          0.51014186 0.44035248          0.44444444    1
## 6119          0.58450586          0.66256565 0.74305962          0.72222222    1
## 6120          0.44516142          0.40736909 0.38134936          0.55555556    0
## 6121          0.57604749          0.59742448 0.50371641          0.44444444    1
## 6122          0.51691447          0.49553056 0.56958000          0.33333333    0
## 6123          0.35067878          0.31493723 0.35790580          0.38888889    1
## 6124          0.55289835          0.56167789 0.46997328          0.55555556    1
## 6125          0.57437501          0.53300835 0.38186293          0.44444444    0
## 6126          0.48250094          0.50414900 0.41165385          0.27777778    0
## 6127          0.54770338          0.66152245 0.62024177          0.44444444    0
## 6128          0.42087953          0.26799969 0.47330029          0.55555556    1
## 6129          0.51124506          0.46404558 0.45925346          0.50000000    1
## 6130          0.40471574          0.38668383 0.44920344          0.55555556    0
## 6131          0.66034100          0.66870900 0.51598600          0.55555556    1
## 6132          0.36045001          0.40225761 0.52210965          0.38888889    0
## 6133          0.52231776          0.42363750 0.41407412          0.44444444    0
## 6134          0.41822258          0.36172873 0.34182521          0.44444444    1
## 6135          0.61431190          0.56819786 0.51158041          0.44444444    0
## 6136          0.54349996          0.44382311 0.51015479          0.55555556    0
## 6137          0.56220513          0.48594487 0.39301212          0.33333333    1
## 6138          0.45204426          0.53331464 0.62573747          0.61111111    0
```

## 6139	0.56186790	0.50967072	0.45935589	0.44444444	0
## 6140	0.62520874	0.72630817	0.78672206	0.66666667	1
## 6141	0.31964254	0.28079096	0.30837493	0.38888889	0
## 6142	0.57573952	0.57788613	0.55503343	0.66666667	1
## 6143	0.64036979	0.61753290	0.58948617	0.50000000	1
## 6144	0.49349358	0.55307125	0.55741100	0.38888889	1
## 6145	0.47225947	0.43482337	0.39241914	0.44444444	1
## 6146	0.51137283	0.51979250	0.45269903	0.44444444	1
## 6147	0.60322312	0.46273901	0.39858805	0.55555556	0
## 6148	0.64973180	0.72038039	0.59269337	0.72222222	1
## 6149	0.44778927	0.46476749	0.45546852	0.44444444	1
## 6150	0.60539484	0.61544093	0.59600461	0.61111111	1
## 6151	0.49697272	0.31479213	0.25228952	0.38888889	0
## 6152	0.48242854	0.46250902	0.45639165	0.50000000	0
## 6153	0.36760919	0.33766289	0.45705935	0.44444444	1
## 6154	0.38359852	0.44966037	0.51807540	0.55555556	0
## 6155	0.54549880	0.53124011	0.55755391	0.61111111	1
## 6156	0.60609444	0.66875036	0.60402921	0.61111111	1
## 6157	0.55808988	0.71697206	0.76889017	0.72222222	0
## 6158	0.44768167	0.44702270	0.42627112	0.55555556	0
## 6159	0.72200345	0.76187252	0.71115007	0.66666667	1
## 6160	0.58937722	0.46479248	0.47236046	0.44444444	0
## 6161	0.44296418	0.59676944	0.62599424	0.55555556	1
## 6162	0.51392263	0.48989826	0.38121162	0.27777778	1
## 6163	0.44014703	0.55618768	0.47397293	0.38888889	1
## 6164	0.44845813	0.49970694	0.60513476	0.55555556	1
## 6165	0.46388428	0.34760402	0.37585192	0.33333333	0
## 6166	0.45808127	0.57535164	0.51417221	0.50000000	1
## 6167	0.59704246	0.48947806	0.45794289	0.66666667	1
## 6168	0.39947247	0.33506065	0.38739073	0.16666667	1
## 6169	0.36542098	0.38145256	0.37577214	0.50000000	0
## 6170	0.45151681	0.42477604	0.31847573	0.38888889	1
## 6171	0.53654105	0.59322635	0.51792632	0.50000000	1
## 6172	0.47745344	0.37211475	0.48508647	0.50000000	1
## 6173	0.59005987	0.55133602	0.43511720	0.61111111	0
## 6174	0.39523286	0.40412761	0.47505384	0.38888889	1
## 6175	0.44032361	0.37196018	0.30400828	0.44444444	1
## 6176	0.62829668	0.62094370	0.51513833	0.66666667	0
## 6177	0.50375091	0.44630086	0.64996380	0.55555556	1
## 6178	0.40585911	0.67918411	0.63700916	0.61111111	0
## 6179	0.54313233	0.57300648	0.60427161	0.27777778	1
## 6180	0.52851971	0.43503453	0.47146595	0.61111111	1
## 6181	0.59037857	0.61693550	0.57697519	0.38888889	0
## 6182	0.53298270	0.45584410	0.48821230	0.61111111	0
## 6183	0.62820485	0.66436907	0.56588366	0.50000000	1
## 6184	0.45639976	0.38646589	0.42507851	0.50000000	0
## 6185	0.37450311	0.51209198	0.52939725	0.50000000	1
## 6186	0.54606705	0.61012517	0.55751144	0.83333333	1
## 6187	0.55230301	0.51174404	0.52979950	0.61111111	1
## 6188	0.61472360	0.65930377	0.68644432	0.72222222	0
## 6189	0.54810948	0.48837984	0.36839463	0.33333333	1
## 6190	0.80880707	0.80533514	0.63149630	0.50000000	1
## 6191	0.26577141	0.24183505	0.24201017	0.33333333	0
## 6192	0.57773395	0.49060245	0.49012722	0.33333333	0
## 6193	0.48500954	0.52719731	0.47261282	0.27777778	0
## 6194	0.61076925	0.51844887	0.47925414	0.44444444	0
## 6195	0.57815075	0.56860412	0.52240081	0.55555556	1
## 6196	0.59527669	0.64814121	0.51197218	0.61111111	1

```
## 6197          0.60884489          0.61449773 0.53106260          0.61111111   1
## 6198          0.52768212          0.51639253 0.50916903          0.55555556   1
## 6199          0.46521857          0.34003165 0.38892208          0.44444444   1
## 6200          0.66315085          0.71090809 0.72643943          0.83333333   1
## 6201          0.71752705          0.63128290 0.46171375          0.50000000   1
## 6202          0.58675632          0.58843676 0.52549094          0.55555556   1
## 6203          0.53513880          0.49338170 0.55924365          0.77777778   1
## 6204          0.46904419          0.38711877 0.34734323          0.50000000   0
## 6205          0.42336959          0.45332816 0.34214718          0.55555556   1
## 6206          0.61917163          0.62696271 0.46453222          0.55555556   0
## 6207          0.60302606          0.58540578 0.53438166          0.61111111   1
## 6208          0.69953344          0.74205965 0.67469540          0.50000000   1
## 6209          0.48681192          0.24683926 0.15620730          0.22222222   0
## 6210          0.52270663          0.43405628 0.51664374          0.55555556   0
## 6211          0.33506020          0.28308243 0.37715186          0.61111111   0
## 6212          0.67138252          0.76206208 0.73499394          0.61111111   1
## 6213          0.54525670          0.56153145 0.54824563          0.61111111   0
## 6214          0.37690801          0.28222248 0.37709569          0.44444444   0
## 6215          0.44605093          0.48886661 0.56117766          0.66666667   1
## 6216          0.33493496          0.51688406 0.61187909          0.55555556   1
## 6217          0.60547492          0.52096073 0.55800936          0.38888889   0
## 6218          0.40942790          0.40499874 0.33137646          0.38888889   0
## 6219          0.34682954          0.32825649 0.39551356          0.55555556   0
## 6220          0.51074141          0.58771887 0.50062567          0.61111111   0
## 6221          0.70247134          0.72079317 0.66461386          0.55555556   0
## 6222          0.42463214          0.38932295 0.45562912          0.55555556   0
## 6223          0.48194944          0.54908941 0.55885437          0.72222222   1
## 6224          0.45274768          0.37449046 0.43768859          0.55555556   1
## 6225          0.36982245          0.41851696 0.32606031          0.55555556   0
## 6226          0.47982956          0.49861471 0.52570751          0.55555556   0
## 6227          0.45121115          0.34990610 0.44217262          0.44444444   0
## 6228          0.60727729          0.66999516 0.60788888          0.61111111   1
## 6229          0.34501805          0.32720614 0.31809985          0.44444444   0
## 6230          0.51360837          0.52536863 0.44880464          0.50000000   1
## 6231          0.42567083          0.38649261 0.32987694          0.38888889   0
## 6232          0.64988963          0.63002039 0.61114781          0.50000000   1
## 6233          0.44466203          0.41943334 0.47354804          0.55555556   0
## 6234          0.51870424          0.59322722 0.59252920          0.55555556   1
## 6235          0.56705484          0.58638718 0.61187246          0.50000000   1
## 6236          0.39688913          0.45624450 0.56554727          0.61111111   0
## 6237          0.53566758          0.30343468 0.39991014          0.44444444   0
## 6238          0.43868183          0.34764204 0.40506158          0.33333333   1
## 6239          0.54020441          0.59465272 0.51167148          0.44444444   0
## 6240          0.56936294          0.50233468 0.52367001          0.44444444   1
## 6241          0.50731135          0.54862331 0.58958764          0.77777778   1
## 6242          0.43115148          0.40077539 0.37854329          0.44444444   1
## 6243          0.37722338          0.28449509 0.37534239          0.44444444   0
## 6244          0.53077453          0.55059634 0.39356344          0.33333333   1
## 6245          0.56728469          0.51210692 0.49158584          0.50000000   1
## 6246          0.45258446          0.44366081 0.47722298          0.27777778   0
## 6247          0.58027213          0.46880235 0.46063316          0.50000000   0
## 6248          0.54282452          0.52024851 0.46989693          0.44444444   1
## 6249          0.54353554          0.68147623 0.63998141          0.72222222   1
## 6250          0.40373906          0.36717925 0.43475689          0.50000000   0
## 6251          0.47081731          0.52173629 0.41739478          0.44444444   0
## 6252          0.31993582          0.48978165 0.46165406          0.61111111   1
## 6253          0.65897595          0.59862456 0.50456374          0.44444444   1
## 6254          0.47264528          0.48930848 0.37985149          0.33333333   0
```

```
## 6255         0.44876049      0.43740664 0.47116022    0.50000000   1
## 6256         0.46238258      0.40213547 0.47104741    0.55555556   0
## 6257         0.83173565      0.66144321 0.48508647    0.55555556   1
## 6258         0.50843230      0.49641609 0.40032960    0.44444444   0
## 6259         0.32700261      0.31080646 0.26424442    0.44444444   0
## 6260         0.44226665      0.36640476 0.46560920    0.27777778   0
## 6261         0.66753203      0.68814424 0.59731196    0.38888889   0
## 6262         0.59405871      0.58735990 0.52766541    0.61111111   1
## 6263         0.46067909      0.40218178 0.36265183    0.44444444   0
## 6264         0.32890088      0.33834330 0.26915296    0.33333333   0
## 6265         0.72595486      0.66554584 0.52125854    0.55555556   1
## 6266         0.56646105      0.65985750 0.49564480    0.44444444   1
## 6267         0.66063706      0.53778151 0.54272244    0.55555556   1
## 6268         0.53763250      0.57852873 0.39726170    0.50000000   1
## 6269         0.52031894      0.60562560 0.61315195    0.66666667   0
## 6270         0.56533288      0.52006204 0.54052952    0.38888889   0
## 6271         0.64519946      0.71064645 0.49585803    0.55555556   1
## 6272         0.62260855      0.77794527 0.66585340    0.61111111   0
## 6273         0.38809242      0.40168429 0.40607041    0.33333333   0
## 6274         0.56545697      0.54285943 0.51756583    0.72222222   1
## 6275         0.43728538      0.50754886 0.61903392    0.72222222   1
## 6276         0.41576385      0.33249103 0.39473245    0.50000000   0
## 6277         0.46624686      0.41166011 0.34833945    0.27777778   0
## 6278         0.46803547      0.42125041 0.35208415    0.44444444   0
## 6279         0.67163364      0.72769295 0.61873997    0.66666667   0
## 6280         0.47439090      0.53508225 0.52798229    0.55555556   0
## 6281         0.46943313      0.43368736 0.32987356    0.44444444   0
## 6282         0.52347516      0.41241549 0.49014984    0.50000000   1
## 6283         0.49631149      0.46768113 0.55561971    0.55555556   1
## 6284         0.38266251      0.49510319 0.46700641    0.50000000   1
## 6285         0.66186142      0.60624782 0.66356319    0.61111111   1
## 6286         0.45038960      0.33434316 0.43548436    0.38888889   1
## 6287         0.51072405      0.45367726 0.53427200    0.44444444   0
## 6288         0.44247552      0.42710001 0.52154791    0.50000000   0
## 6289         0.42065484      0.35558524 0.36577546    0.55555556   0
## 6290         0.56858562      0.68589212 0.73639639    0.72222222   1
## 6291         0.35675381      0.33766787 0.39201396    0.44444444   1
## 6292         0.60995582      0.45540933 0.43137643    0.44444444   1
## 6293         0.70012015      0.74878296 0.69988649    0.83333333   1
## 6294         0.45805996      0.32956147 0.33086193    0.38888889   0
## 6295         0.57076433      0.59724051 0.52461107    0.50000000   0
## 6296         0.51716201      0.45406021 0.43201092    0.55555556   0
## 6297         0.65829303      0.64274557 0.53576273    0.50000000   1
## 6298         0.59097434      0.63822420 0.58390094    0.61111111   0
## 6299         0.60061128      0.61720068 0.61863324    0.61111111   1
## 6300         0.56637495      0.47497560 0.47889073    0.44444444   1
## 6301         0.35622957      0.40561544 0.44780142    0.38888889   0
## 6302         0.46627698      0.55335429 0.61536775    0.61111111   1
## 6303         0.52374346      0.61799463 0.55331841    0.38888889   1
## 6304         0.36839577      0.42996624 0.32067920    0.27777778   0
## 6305         0.55437932      0.57424824 0.61166054    0.66666667   1
## 6306         0.62233806      0.45906325 0.47486919    0.44444444   1
## 6307         0.38428940      0.43447637 0.44570386    0.66666667   0
## 6308         0.48985186      0.53413112 0.56058271    0.55555556   1
## 6309         0.65458076      0.60126743 0.44310850    0.33333333   0
## 6310         0.74022793      0.73261199 0.77044181    0.83333333   1
## 6311         0.61409528      0.74469197 0.67816266    0.44444444   1
## 6312         0.61476019      0.65204913 0.68289632    0.88888889   1
```

644

## 6313	0.63501150	0.45235098	0.50459567	0.55555556	1
## 6314	0.47064071	0.46982848	0.45854457	0.44444444	1
## 6315	0.59985617	0.55908025	0.53641170	0.33333333	0
## 6316	0.44511322	0.49784354	0.55501461	0.33333333	1
## 6317	0.46981015	0.56485943	0.57383339	0.55555556	1
## 6318	0.51928180	0.54014342	0.58636826	0.50000000	0
## 6319	0.51812951	0.70945388	0.61805765	0.66666667	1
## 6320	0.60521784	0.48743897	0.38975161	0.38888889	0
## 6321	0.71771128	0.71263399	0.62492292	0.72222222	0
## 6322	0.63056236	0.72471869	0.41436690	0.27777778	1
## 6323	0.39637766	0.38546885	0.36570916	0.38888889	0
## 6324	0.50183671	0.49556922	0.36129762	0.38888889	1
## 6325	0.54765068	0.67021352	0.49764460	0.55555556	1
## 6326	0.44369322	0.42879770	0.40843197	0.33333333	0
## 6327	0.62015554	0.66119427	0.64701724	0.55555556	1
## 6328	0.70068212	0.50065581	0.47956201	0.61111111	1
## 6329	0.52168565	0.36327690	0.50972967	0.38888889	0
## 6330	0.31082412	0.30799644	0.34881642	0.33333333	1
## 6331	0.47234235	0.32187587	0.33099646	0.16666667	0
## 6332	0.66804625	0.67443414	0.63697981	0.50000000	1
## 6333	0.30721303	0.45848759	0.47625466	0.50000000	0
## 6334	0.46309084	0.37103392	0.43319959	0.50000000	0
## 6335	0.55429109	0.54756664	0.60469778	0.61111111	0
## 6336	0.47438796	0.46245656	0.53301622	0.55555556	0
## 6337	0.56124643	0.64806400	0.57216793	0.50000000	0
## 6338	0.43490349	0.37546739	0.40831530	0.33333333	0
## 6339	0.52881056	0.69629090	0.57205642	0.55555556	1
## 6340	0.45361325	0.44411164	0.46801651	0.50000000	0
## 6341	0.53344593	0.51977162	0.51387929	0.50000000	0
## 6342	0.74336662	0.69167706	0.59995282	0.61111111	1
## 6343	0.30043272	0.30645418	0.25836393	0.22222222	0
## 6344	0.53309245	0.56886285	0.64900305	0.55555556	0
## 6345	0.53158628	0.44490171	0.44641524	0.50000000	1
## 6346	0.49495224	0.62408937	0.54738470	0.61111111	0
## 6347	0.51102615	0.51750643	0.65691627	0.66666667	0
## 6348	0.60848259	0.47320894	0.53072039	0.77777778	0
## 6349	0.53829773	0.47282956	0.50756002	0.72222222	1
## 6350	0.46700446	0.48564337	0.48730432	0.55555556	1
## 6351	0.52098274	0.47674170	0.39844948	0.38888889	0
## 6352	0.68703130	0.84626013	0.78117860	0.66666667	1
## 6353	0.49925221	0.27312919	0.29754224	0.27777778	0
## 6354	0.77139083	0.82739870	0.65862911	0.50000000	1
## 6355	0.69930372	0.74704629	0.77102667	0.66666667	1
## 6356	0.45684657	0.47468615	0.56358416	0.38888889	0
## 6357	0.55679208	0.65927375	0.57801288	0.72222222	1
## 6358	0.62402916	0.48100578	0.41225719	0.44444444	0
## 6359	0.58776085	0.64541971	0.51003831	0.55555556	0
## 6360	0.38119582	0.26546286	0.40561922	0.50000000	1
## 6361	0.64025578	0.70257082	0.67896875	0.66666667	1
## 6362	0.74383754	0.63224230	0.54574625	0.55555556	1
## 6363	0.60081198	0.43049405	0.41274233	0.38888889	0
## 6364	0.49263499	0.50112221	0.32196211	0.55555556	1
## 6365	0.43437946	0.48229334	0.46405102	0.44444444	0
## 6366	0.51214337	0.30785100	0.40428653	0.33333333	1
## 6367	0.43002535	0.39785062	0.45321249	0.50000000	1
## 6368	0.47239454	0.42271753	0.38746243	0.38888889	0
## 6369	0.58018665	0.55929514	0.53958719	0.55555556	0
## 6370	0.63765014	0.79626534	0.69286134	0.77777778	1

```
## 6371          0.57847011          0.60857429 0.57421445          0.55555556    1
## 6372          0.42821991          0.47394626 0.34137582          0.38888889    0
## 6373          0.59778904          0.44246478 0.55842003          0.61111111    1
## 6374          0.62007650          0.56692832 0.55105057          0.44444444    1
## 6375          0.73696056          0.79561987 0.69021454          0.66666667    1
## 6376          0.67665668          0.71544844 0.77624864          0.77777778    1
## 6377          0.39128904          0.42956996 0.43131091          0.66666667    0
## 6378          0.35212522          0.35337221 0.28101359          0.38888889    0
## 6379          0.39656867          0.36939465 0.45959280          0.55555556    1
## 6380          0.46518852          0.45105744 0.37609613          0.38888889    1
## 6381          0.65575468          0.60712028 0.73685710          0.61111111    1
## 6382          0.46220329          0.62677929 0.64878498          0.50000000    1
## 6383          0.49479993          0.29642328 0.42954484          0.38888889    0
## 6384          0.57931546          0.67221940 0.63416686          0.55555556    1
## 6385          0.43054444          0.35059119 0.22558217          0.27777778    0
## 6386          0.58796945          0.60709108 0.54238832          0.55555556    1
## 6387          0.37908719          0.22841239 0.30688610          0.33333333    0
## 6388          0.69788850          0.74726604 0.69763429          0.66666667    1
## 6389          0.70511937          0.72373920 0.64307694          0.50000000    0
## 6390          0.49731092          0.48491254 0.54985460          0.55555556    1
## 6391          0.40618517          0.42300755 0.37377471          0.38888889    0
## 6392          0.58810489          0.52507724 0.53270600          0.55555556    0
## 6393          0.60718801          0.57407604 0.56526221          0.50000000    0
## 6394          0.50671535          0.57723725 0.52847230          0.50000000    1
## 6395          0.56535853          0.57841498 0.55728875          0.55555556    1
## 6396          0.54668617          0.47561391 0.58264209          0.61111111    1
## 6397          0.56521771          0.64234268 0.49268260          0.44444444    0
## 6398          0.46776106          0.53688536 0.56636772          0.50000000    1
## 6399          0.51866151          0.24522781 0.43297428          0.50000000    0
## 6400          0.44913610          0.37016846 0.40811231          0.44444444    1
## 6401          0.48440999          0.46585109 0.50437824          0.38888889    1
## 6402          0.57756515          0.73914922 0.55771575          0.55555556    1
## 6403          0.57243801          0.35754124 0.36847648          0.50000000    1
## 6404          0.48775087          0.47748953 0.46343312          0.44444444    0
## 6405          0.50875848          0.43357064 0.57842459          0.61111111    0
## 6406          0.46940477          0.55355447 0.53165362          0.50000000    1
## 6407          0.41759941          0.43363764 0.46004047          0.50000000    1
## 6408          0.50308601          0.53144129 0.50008144          0.33333333    1
## 6409          0.51738255          0.48614757 0.44656945          0.50000000    1
## 6410          0.15208753          0.32056264 0.55284399          0.38888889    1
## 6411          0.49322434          0.54725169 0.56169706          0.72222222    0
## 6412          0.52124726          0.50902346 0.37679286          0.44444444    0
## 6413          0.57702891          0.65672175 0.65307595          0.77777778    0
## 6414          0.50111369          0.53923216 0.54225075          0.44444444    0
## 6415          0.46328908          0.43440954 0.39867173          0.44444444    0
## 6416          0.43170974          0.49601511 0.50134617          0.33333333    0
## 6417          0.65052419          0.77195428 0.61602146          0.61111111    0
## 6418          0.49645710          0.50119792 0.49985007          0.55555556    1
## 6419          0.66728356          0.58451030 0.45048773          0.38888889    0
## 6420          0.42657749          0.38544736 0.40416380          0.27777778    0
## 6421          0.35629789          0.39182072 0.43226377          0.55555556    0
## 6422          0.53800865          0.50033441 0.44578601          0.50000000    1
## 6423          0.45727517          0.50088121 0.35315890          0.55555556    1
## 6424          0.41123419          0.47991756 0.47534565          0.61111111    1
## 6425          0.59601520          0.50581668 0.40474274          0.50000000    0
## 6426          0.68416746          0.48191156 0.53183191          0.50000000    1
## 6427          0.52587970          0.54777004 0.57548047          0.55555556    1
## 6428          0.30760835          0.21526025 0.22291185          0.27777778    0
```

```
## 6429            0.37079718         0.40892508 0.43146670         0.38888889   0
## 6430            0.50227241         0.41008205 0.53981638         0.55555556   1
## 6431            0.56943021         0.56164227 0.60983535         0.38888889   0
## 6432            0.51056351         0.37349642 0.34950969         0.38888889   0
## 6433            0.60393376         0.72662453 0.73667229         0.77777778   1
## 6434            0.32805318         0.36582176 0.34841170         0.38888889   0
## 6435            0.62072884         0.62530647 0.79133107         0.77777778   1
## 6436            0.48562198         0.53636542 0.44785318         0.55555556   1
## 6437            0.45234669         0.38746007 0.42242107         0.55555556   1
## 6438            0.54367744         0.53484390 0.41227739         0.27777778   0
## 6439            0.53769936         0.64959168 0.67210399         0.61111111   1
## 6440            0.32423562         0.27292830 0.39103909         0.27777778   0
## 6441            0.36172721         0.35486998 0.37589712         0.22222222   1
## 6442            0.58377943         0.68172721 0.61405625         0.66666667   1
## 6443            0.34992000         0.19749210 0.23130808         0.16666667   0
## 6444            0.50512155         0.57711332 0.54431672         0.50000000   1
## 6445            0.57232596         0.68464360 0.43632709         0.44444444   1
## 6446            0.48474783         0.60410185 0.58628539         0.55555556   1
## 6447            0.47285988         0.39469054 0.30615531         0.38888889   0
## 6448            0.36807806         0.32847080 0.39345296         0.44444444   1
## 6449            0.40053233         0.44433273 0.40409640         0.61111111   1
## 6450            0.58392190         0.46512746 0.62553217         0.61111111   0
## 6451            0.42325757         0.29808495 0.23060801         0.22222222   0
## 6452            0.48712952         0.49983720 0.58696756         0.50000000   0
## 6453            0.49184693         0.44881632 0.59344842         0.50000000   1
## 6454            0.49239562         0.47083396 0.41316412         0.61111111   1
## 6455            0.67456599         0.73379759 0.54594101         0.50000000   0
## 6456            0.56552889         0.68742547 0.59038738         0.55555556   1
## 6457            0.53561620         0.46421938 0.44916739         0.44444444   1
## 6458            0.69207451         0.71861163 0.70781444         0.50000000   1
## 6459            0.58046262         0.59481872 0.70890623         0.77777778   1
## 6460            0.34782217         0.28001841 0.37001003         0.50000000   0
## 6461            0.62530761         0.65706750 0.47309532         0.44444444   1
## 6462            0.48241863         0.49610259 0.48198601         0.55555556   0
## 6463            0.61204633         0.62120127 0.71194014         0.72222222   1
## 6464            0.52741813         0.55771146 0.58531324         0.61111111   0
## 6465            0.58378318         0.47608003 0.43106595         0.55555556   1
## 6466            0.31890553         0.20638415 0.20675319         0.16666667   0
## 6467            0.45539784         0.36141167 0.39509170         0.27777778   0
## 6468            0.51808679         0.42012178 0.53359512         0.61111111   1
## 6469            0.52920854         0.55617411 0.57836065         0.55555556   1
## 6470            0.57817452         0.65493053 0.53069473         0.50000000   1
## 6471            0.56805037         0.57098352 0.48037569         0.61111111   1
## 6472            0.37598645         0.40205782 0.42018222         0.38888889   0
## 6473            0.35590647         0.24589988 0.27626355         0.44444444   0
## 6474            0.46376301         0.47890787 0.31564952         0.27777778   0
## 6475            0.48362106         0.39757568 0.51699486         0.44444444   1
## 6476            0.35848127         0.32544318 0.28188786         0.33333333   0
## 6477            0.45928111         0.43487682 0.38169722         0.50000000   0
## 6478            0.53402416         0.55752220 0.51315549         0.55555556   1
## 6479            0.56085192         0.64895609 0.45272424         0.50000000   1
## 6480            0.41295548         0.37870503 0.28267651         0.44444444   0
## 6481            0.55864660         0.66958092 0.59518573         0.50000000   1
## 6482            0.52428891         0.49179353 0.38029709         0.33333333   0
## 6483            0.54179663         0.55220843 0.47275392         0.44444444   1
## 6484            0.55309723         0.52120743 0.57483236         0.50000000   1
## 6485            0.57205559         0.55181276 0.47063679         0.38888889   0
## 6486            0.49346880         0.48869452 0.55118270         0.61111111   0
```

```
## 6487        0.53856647        0.52253815 0.57712724        0.61111111   1
## 6488        0.52304205        0.46515734 0.42553350        0.38888889   0
## 6489        0.51270483        0.67700074 0.55406758        0.55555556   0
## 6490        0.52198564        0.48351792 0.59049761        0.55555556   1
## 6491        0.61511664        0.58319667 0.62657413        0.50000000   1
## 6492        0.58688327        0.52165992 0.46516542        0.38888889   1
## 6493        0.68734261        0.60882675 0.60071100        0.66666667   1
## 6494        0.53285216        0.58152664 0.53781731        0.50000000   1
## 6495        0.47357398        0.54824067 0.51058398        0.27777778   0
## 6496        0.46057175        0.47797954 0.48462161        0.61111111   0
## 6497        0.50594897        0.43124370 0.39979136        0.38888889   0
## 6498        0.62422439        0.66436317 0.51768985        0.55555556   1
## 6499        0.64920376        0.56641308 0.58438452        0.61111111   1
## 6500        0.49327494        0.38596853 0.38899109        0.50000000   0
## 6501        0.41340937        0.40718043 0.41225225        0.27777778   0
## 6502        0.43315559        0.51616161 0.50173191        0.55555556   1
## 6503        0.51863164        0.50045548 0.48177841        0.55555556   0
## 6504        0.40941885        0.49645874 0.47764868        0.55555556   0
## 6505        0.46112953        0.46702690 0.48713948        0.61111111   0
## 6506        0.49517074        0.47897886 0.51712344        0.61111111   1
## 6507        0.58466930        0.45697898 0.49885041        0.44444444   1
## 6508        0.56545766        0.59681755 0.48508647        0.50000000   0
## 6509        0.48607696        0.45763984 0.36529080        0.38888889   0
## 6510        0.56845956        0.52456447 0.51823324        0.55555556   1
## 6511        0.52357123        0.55696536 0.54868120        0.55555556   0
## 6512        0.61434167        0.61795731 0.55391637        0.44444444   1
## 6513        0.47190750        0.47227871 0.38897522        0.50000000   1
## 6514        0.45265259        0.47640577 0.44198615        0.44444444   0
## 6515        0.51407282        0.44382647 0.48842543        0.55555556   1
## 6516        0.49561004        0.55108300 0.38512003        0.66666667   0
## 6517        0.30346128        0.46746667 0.51825478        0.55555556   1
## 6518        0.30082918        0.42726077 0.33213030        0.22222222   0
## 6519        0.53606428        0.66284758 0.76593301        0.77777778   1
## 6520        0.46384522        0.53110925 0.45279373        0.50000000   0
## 6521        0.45155481        0.56182619 0.48031976        0.33333333   1
## 6522        0.54440083        0.48594901 0.38712253        0.33333333   0
## 6523        0.52580095        0.48092162 0.44665527        0.38888889   0
## 6524        0.41357137        0.43314749 0.43278861        0.50000000   1
## 6525        0.53283649        0.33991766 0.39007997        0.44444444   0
## 6526        0.43755661        0.33447304 0.34297680        0.44444444   0
## 6527        0.34679109        0.26143814 0.44021522        0.44444444   1
## 6528        0.41839676        0.52945514 0.50099584        0.44444444   1
## 6529        0.51126256        0.45434440 0.59583043        0.66666667   1
## 6530        0.44711295        0.50837523 0.57852514        0.27777778   0
## 6531        0.47794918        0.48510406 0.44039180        0.44444444   1
## 6532        0.47182737        0.41981683 0.45051939        0.44444444   0
## 6533        0.69084887        0.78389540 0.72437861        0.72222222   0
## 6534        0.56776533        0.68133300 0.65524901        0.72222222   1
## 6535        0.48639461        0.44530503 0.37036354        0.55555556   0
## 6536        0.58274604        0.65254400 0.56873461        0.66666667   0
## 6537        0.61123989        0.78504987 0.61864487        0.61111111   1
## 6538        0.61323260        0.69879975 0.58685244        0.61111111   1
## 6539        0.38684530        0.37214668 0.36023596        0.55555556   1
## 6540        0.40657125        0.29764054 0.27837685        0.33333333   0
## 6541        0.38633179        0.34860286 0.38936980        0.27777778   0
## 6542        0.48040019        0.53684684 0.50338837        0.66666667   1
## 6543        0.64712158        0.71703536 0.57329733        0.44444444   1
## 6544        0.50006478        0.40679290 0.37214642        0.33333333   0
```

```
## 6545           0.50475083       0.49582562 0.43814452   0.33333333   0
## 6546           0.55711248       0.67769900 0.51174645   0.61111111   0
## 6547           0.31179358       0.38707116 0.41326847   0.55555556   0
## 6548           0.48134933       0.39492113 0.31119878   0.33333333   0
## 6549           0.39223277       0.30352910 0.23001431   0.33333333   0
## 6550           0.58791049       0.55230331 0.51486918   0.66666667   1
## 6551           0.55825652       0.52107366 0.56265452   0.66666667   1
## 6552           0.50610230       0.54812544 0.43863422   0.61111111   0
## 6553           0.31312323       0.25453400 0.27684077   0.44444444   0
## 6554           0.54290353       0.54832408 0.41763063   0.38888889   0
## 6555           0.57997229       0.44891784 0.46556655   0.55555556   1
## 6556           0.53552806       0.65079356 0.59431428   0.50000000   1
## 6557           0.46884813       0.42989953 0.44809436   0.38888889   0
## 6558           0.50931092       0.32076039 0.36393416   0.27777778   0
## 6559           0.64532145       0.75552702 0.66774338   0.66666667   1
## 6560           0.67932882       0.65234249 0.61403548   0.61111111   1
## 6561           0.38704017       0.37123069 0.49742305   0.61111111   1
## 6562           0.48778824       0.50370457 0.49435496   0.61111111   1
## 6563           0.55333279       0.55475638 0.65355519   0.66666667   1
## 6564           0.46073354       0.44053650 0.31685652   0.44444444   1
## 6565           0.55989591       0.59988120 0.50085036   0.38888889   0
## 6566           0.35881673       0.37504328 0.37872402   0.50000000   0
## 6567           0.44985082       0.55861650 0.55004889   0.44444444   1
## 6568           0.47048628       0.51031308 0.49240471   0.50000000   0
## 6569           0.50213928       0.45883444 0.41270802   0.38888889   0
## 6570           0.40529954       0.44417775 0.46286257   0.50000000   1
## 6571           0.37538392       0.39337821 0.33552869   0.38888889   0
## 6572           0.42395225       0.39599927 0.49619480   0.50000000   0
## 6573           0.38721038       0.41196993 0.34826019   0.38888889   0
## 6574           0.54045489       0.55754410 0.51402412   0.55555556   0
## 6575           0.56683174       0.51818418 0.55657950   0.50000000   1
## 6576           0.53949254       0.50917465 0.59629750   0.50000000   1
## 6577           0.55381326       0.49667302 0.55618538   0.55555556   1
## 6578           0.50222291       0.49509310 0.48397590   0.50000000   1
## 6579           0.55577353       0.52801999 0.60497385   0.50000000   1
## 6580           0.52769823       0.46715194 0.55013328   0.44444444   0
## 6581           0.53204302       0.51094484 0.42609197   0.72222222   0
## 6582           0.61326444       0.56325387 0.61118830   0.66666667   1
## 6583           0.56757734       0.41412512 0.42581044   0.50000000   0
## 6584           0.42465990       0.37485983 0.33562740   0.33333333   1
## 6585           0.47717441       0.34818528 0.37202773   0.44444444   1
## 6586           0.67430558       0.49928809 0.29450423   0.55555556   0
## 6587           0.51371845       0.58622279 0.52555014   0.50000000   1
## 6588           0.64455408       0.56277128 0.45166815   0.50000000   1
## 6589           0.61717944       0.63773659 0.48396573   0.50000000   0
## 6590           0.58070334       0.65424081 0.54585554   0.55555556   0
## 6591           0.59260976       0.52721582 0.40860365   0.50000000   0
## 6592           0.63170871       0.71993227 0.60887350   0.61111111   1
## 6593           0.54978254       0.43899971 0.34796651   0.38888889   0
## 6594           0.78291040       0.70769407 0.67421244   0.61111111   1
## 6595           0.51287661       0.57442434 0.48565277   0.55555556   1
## 6596           0.50765468       0.46331125 0.52954894   0.27777778   1
## 6597           0.53971449       0.58106263 0.46911047   0.55555556   1
## 6598           0.48630760       0.42046940 0.47968098   0.50000000   1
## 6599           0.52818686       0.66173928 0.56438621   0.50000000   1
## 6600           0.66241500       0.69693025 0.72360436   0.50000000   0
## 6601           0.48907497       0.40507528 0.44007234   0.55555556   0
## 6602           0.47109953       0.52931573 0.64832091   0.33333333   1
```

649

```
## 6603          0.56301322          0.72010199 0.62159671          0.50000000  1
## 6604          0.46050909          0.43005110 0.45205980          0.44444444  1
## 6605          0.34174760          0.37761635 0.37205052          0.22222222  0
## 6606          0.58411055          0.72150752 0.69614573          0.61111111  1
## 6607          0.53393104          0.60035120 0.52094481          0.61111111  1
## 6608          0.53876596          0.44773919 0.49917785          0.44444444  1
## 6609          0.49386928          0.47229823 0.61596581          0.38888889  1
## 6610          0.59833250          0.67060446 0.52350370          0.61111111  1
## 6611          0.36741215          0.31481069 0.43036285          0.50000000  0
## 6612          0.36329275          0.45857253 0.40017459          0.50000000  1
## 6613          0.54804269          0.70413177 0.54441482          0.61111111  1
## 6614          0.33788004          0.26260380 0.45537769          0.27777778  0
## 6615          0.55676410          0.60876169 0.51205110          0.55555556  0
## 6616          0.36769348          0.40678086 0.50404766          0.50000000  0
## 6617          0.47595078          0.42793309 0.34215709          0.50000000  0
## 6618          0.63877176          0.63446290 0.55935759          0.44444444  0
## 6619          0.49557890          0.53741772 0.56667458          0.44444444  1
## 6620          0.34656984          0.27503197 0.42272346          0.38888889  0
## 6621          0.55766861          0.50373043 0.51741258          0.33333333  0
## 6622          0.43382620          0.53598871 0.51479580          0.50000000  1
## 6623          0.48986388          0.41651875 0.53043092          0.44444444  1
## 6624          0.51382057          0.42917369 0.43269409          0.50000000  1
## 6625          0.55655092          0.63281576 0.54275737          0.44444444  0
## 6626          0.48226594          0.59774396 0.64503823          0.61111111  1
## 6627          0.50486180          0.52232603 0.46897646          0.38888889  0
## 6628          0.43333521          0.43894982 0.46018575          0.38888889  1
## 6629          0.55616756          0.51111023 0.48908444          0.50000000  1
## 6630          0.44859785          0.40445887 0.32092144          0.27777778  1
## 6631          0.39524988          0.39683800 0.43528012          0.38888889  0
## 6632          0.68618665          0.63400774 0.51253189          0.61111111  0
## 6633          0.64546785          0.62198150 0.61630658          0.38888889  0
## 6634          0.42782193          0.57356858 0.36326488          0.44444444  0
## 6635          0.53354577          0.43236654 0.31360464          0.44444444  0
## 6636          0.52009562          0.67545475 0.61282817          0.66666667  1
## 6637          0.36785490          0.44729941 0.37028473          0.44444444  0
## 6638          0.48305742          0.41567676 0.37595665          0.50000000  1
## 6639          0.48978702          0.49606598 0.50991864          0.44444444  0
## 6640          0.39968983          0.38731647 0.32253649          0.33333333  0
## 6641          0.47711477          0.39935781 0.52445814          0.16666667  1
## 6642          0.69679822          0.75780252 0.58261214          0.55555556  0
## 6643          0.64467696          0.61549957 0.61666690          0.66666667  1
## 6644          0.64125041          0.71644265 0.61542086          0.66666667  1
## 6645          0.62216786          0.59969250 0.49108873          0.55555556  0
## 6646          0.51079306          0.43822413 0.54435620          0.50000000  1
## 6647          0.60972539          0.67030694 0.61176136          0.61111111  1
## 6648          0.48718479          0.54406997 0.56662035          0.38888889  0
## 6649          0.41186108          0.35986141 0.36907278          0.50000000  0
## 6650          0.32497641          0.26876067 0.37757195          0.38888889  0
## 6651          0.69081049          0.78115034 0.76848879          0.72222222  1
## 6652          0.41564666          0.33226052 0.39306024          0.44444444  0
## 6653          0.54249591          0.59679025 0.55755534          0.61111111  0
## 6654          0.36336256          0.38212173 0.38525156          0.44444444  0
## 6655          0.37751141          0.38194989 0.24797810          0.33333333  0
## 6656          0.36888029          0.32572431 0.32001498          0.27777778  0
## 6657          0.66679298          0.66586753 0.64823667          0.55555556  0
## 6658          0.34769664          0.19983391 0.32357462          0.44444444  1
## 6659          0.51929419          0.51855628 0.48508647          0.50000000  1
## 6660          0.52672777          0.52209774 0.45432177          0.66666667  1
```

```
## 6661          0.48482889          0.40299995 0.32412242          0.27777778  0
## 6662          0.35341960          0.37905316 0.40030912          0.44444444  0
## 6663          0.54153512          0.46867089 0.40646914          0.33333333  1
## 6664          0.35761591          0.33572865 0.25677689          0.44444444  0
## 6665          0.38182723          0.26163260 0.35260346          0.44444444  1
## 6666          0.44024412          0.35785354 0.27039286          0.33333333  0
## 6667          0.50430465          0.43394452 0.46080106          0.50000000  0
## 6668          0.31076393          0.22167989 0.23207715          0.44444444  0
## 6669          0.48213684          0.55092142 0.58580683          0.61111111  1
## 6670          0.51174304          0.45377802 0.48633531          0.38888889  1
## 6671          0.53499030          0.46885847 0.48199861          0.55555556  1
## 6672          0.52987739          0.45711380 0.47416392          0.50000000  1
## 6673          0.47906017          0.41943709 0.45330123          0.38888889  1
## 6674          0.60886636          0.52846350 0.44079372          0.61111111  0
## 6675          0.67429536          0.65422918 0.58513312          0.55555556  0
## 6676          0.44350760          0.53143838 0.53055918          0.55555556  1
## 6677          0.46704163          0.51279128 0.45628499          0.44444444  0
## 6678          0.48115872          0.40609794 0.32461402          0.38888889  0
## 6679          0.58807889          0.54473027 0.52698424          0.50000000  0
## 6680          0.40592666          0.27874885 0.35235181          0.38888889  0
## 6681          0.61712101          0.55316350 0.52749126          0.44444444  0
## 6682          0.59464363          0.58491757 0.57088981          0.33333333  1
## 6683          0.38668344          0.43605289 0.65836858          0.61111111  1
## 6684          0.40620901          0.39415023 0.49733830          0.61111111  1
## 6685          0.49278296          0.38018382 0.43553107          0.27777778  0
## 6686          0.51124425          0.67988636 0.54809281          0.50000000  0
## 6687          0.52167362          0.45712260 0.48723463          0.38888889  0
## 6688          0.55706735          0.69609786 0.66660570          0.50000000  1
## 6689          0.48086109          0.34432162 0.50343008          0.50000000  0
## 6690          0.53196456          0.48082602 0.33855749          0.33333333  0
## 6691          0.49724947          0.40026878 0.38781933          0.61111111  0
## 6692          0.44754086          0.45198724 0.50861228          0.38888889  1
## 6693          0.53450933          0.60313043 0.52638364          0.61111111  0
## 6694          0.44237635          0.48870832 0.37720126          0.50000000  1
## 6695          0.47529978          0.46896263 0.53435869          0.55555556  1
## 6696          0.51055829          0.57718965 0.54151490          0.50000000  1
## 6697          0.58231425          0.61125483 0.67918461          0.50000000  0
## 6698          0.46628757          0.38702949 0.39052254          0.61111111  0
## 6699          0.62317582          0.48349176 0.41258365          0.44444444  1
## 6700          0.51450640          0.46816966 0.45836135          0.44444444  1
## 6701          0.45701979          0.50474446 0.29133000          0.50000000  1
## 6702          0.65189019          0.65460520 0.68142908          0.61111111  1
## 6703          0.51743016          0.50463384 0.55654147          0.44444444  1
## 6704          0.49943528          0.62316343 0.59577921          0.50000000  1
## 6705          0.58471932          0.63792308 0.58413861          0.44444444  0
## 6706          0.41783823          0.42776718 0.39695816          0.55555556  0
## 6707          0.57125288          0.49491222 0.56841921          0.50000000  1
## 6708          0.66221053          0.59817131 0.56232294          0.38888889  1
## 6709          0.58264382          0.49735407 0.41227473          0.55555556  1
## 6710          0.58588211          0.52111904 0.42204262          0.55555556  0
## 6711          0.48869584          0.55653238 0.32914467          0.44444444  0
## 6712          0.32270852          0.23638402 0.33716795          0.44444444  0
## 6713          0.44304564          0.42497974 0.43238846          0.44444444  1
## 6714          0.46741854          0.53872025 0.44047582          0.77777778  1
## 6715          0.62258755          0.49693821 0.37131580          0.38888889  1
## 6716          0.45397524          0.48048849 0.49655233          0.55555556  1
## 6717          0.64794206          0.53614589 0.45796506          0.50000000  1
## 6718          0.47866055          0.30677654 0.38579622          0.44444444  0
```

651

```
## 6719          0.51481852          0.69660925 0.52447383          0.38888889  0
## 6720          0.47793382          0.43638324 0.46845368          0.50000000  0
## 6721          0.67120335          0.75161758 0.73936633          0.72222222  1
## 6722          0.54406934          0.49703759 0.45910751          0.66666667  0
## 6723          0.58862469          0.66231650 0.57079291          0.55555556  1
## 6724          0.58157211          0.66793322 0.59352249          0.66666667  1
## 6725          0.60469582          0.52314728 0.40481063          0.44444444  0
## 6726          0.63268801          0.67036769 0.55364645          0.44444444  1
## 6727          0.42125621          0.37312525 0.37696126          0.50000000  1
## 6728          0.44558889          0.51844493 0.57642662          0.50000000  0
## 6729          0.67184348          0.75581452 0.73303890          0.72222222  1
## 6730          0.48071567          0.35649335 0.43781217          0.44444444  0
## 6731          0.34181305          0.28850116 0.41713575          0.55555556  0
## 6732          0.58353481          0.71740762 0.72964253          0.61111111  1
## 6733          0.43304757          0.52031123 0.53058629          0.55555556  1
## 6734          0.54548215          0.55305779 0.35434089          0.38888889  0
## 6735          0.42451573          0.42611178 0.37088209          0.44444444  0
## 6736          0.63080510          0.67412380 0.54905392          0.38888889  0
## 6737          0.44048193          0.28330121 0.34289437          0.33333333  0
## 6738          0.51474702          0.32911429 0.50068291          0.50000000  0
## 6739          0.65221806          0.63461949 0.45599651          0.38888889  0
## 6740          0.53310575          0.51878780 0.54930833          0.33333333  1
## 6741          0.52941593          0.53095396 0.40183098          0.44444444  0
## 6742          0.40632004          0.34979540 0.36550288          0.44444444  1
## 6743          0.47624352          0.38565365 0.48404635          0.61111111  0
## 6744          0.51108958          0.50194145 0.36117790          0.44444444  0
## 6745          0.49485388          0.42505913 0.37876050          0.27777778  0
## 6746          0.49250010          0.50610281 0.52662808          0.38888889  0
## 6747          0.55888407          0.59454535 0.57063024          0.66666667  1
## 6748          0.55990195          0.58916288 0.50829035          0.55555556  1
## 6749          0.48230230          0.53595346 0.55125431          0.50000000  1
## 6750          0.53368757          0.44787180 0.34986870          0.44444444  0
## 6751          0.53768536          0.47952090 0.41370692          0.22222222  0
## 6752          0.43209026          0.46484103 0.47476692          0.33333333  0
## 6753          0.47593560          0.51884306 0.45161509          0.50000000  1
## 6754          0.64324283          0.61553828 0.71570739          0.55555556  1
## 6755          0.42468219          0.38300269 0.39621578          0.61111111  0
## 6756          0.52700819          0.59512263 0.46557727          0.50000000  1
## 6757          0.46036575          0.50008098 0.30066135          0.55555556  1
## 6758          0.48198587          0.40869872 0.41277189          0.44444444  0
## 6759          0.32257650          0.30787705 0.35040906          0.50000000  0
## 6760          0.46396632          0.44644103 0.41888204          0.22222222  0
## 6761          0.52551589          0.53894941 0.47884502          0.55555556  0
## 6762          0.40411586          0.37725204 0.38366613          0.38888889  0
## 6763          0.51632623          0.53056372 0.41657232          0.44444444  0
## 6764          0.53469886          0.51614632 0.52066745          0.44444444  1
## 6765          0.46702587          0.54523127 0.52598369          0.44444444  1
## 6766          0.39674749          0.38815045 0.36779143          0.50000000  0
## 6767          0.49097255          0.40724844 0.38089058          0.44444444  1
## 6768          0.63951727          0.57563462 0.69902486          0.55555556  1
## 6769          0.57802299          0.54415196 0.64703643          0.44444444  0
## 6770          0.53547997          0.53338531 0.49105052          0.72222222  0
## 6771          0.42547543          0.39011080 0.44866419          0.50000000  0
## 6772          0.46837282          0.43160466 0.46729894          0.50000000  0
## 6773          0.48848569          0.54591152 0.51397809          0.44444444  0
## 6774          0.63898164          0.60355767 0.63728289          0.55555556  1
## 6775          0.37608258          0.45306048 0.34794128          0.50000000  0
## 6776          0.46343841          0.39847642 0.42431740          0.44444444  0
```

```
## 6777          0.47051289     0.52568374 0.55900109    0.44444444    0
## 6778          0.53995107     0.50012376 0.48623740    0.50000000    0
## 6779          0.49697691     0.43865193 0.47194677    0.44444444    0
## 6780          0.46275162     0.44668573 0.30205075    0.27777778    0
## 6781          0.41053984     0.22792545 0.41992829    0.38888889    0
## 6782          0.54955355     0.59435735 0.57117599    0.38888889    1
## 6783          0.44992135     0.44067180 0.41426586    0.44444444    1
## 6784          0.61358154     0.61585603 0.58955704    0.66666667    1
## 6785          0.53365988     0.52202557 0.53093719    0.50000000    1
## 6786          0.51520804     0.52882681 0.43852658    0.38888889    0
## 6787          0.55770432     0.61334425 0.50823659    0.38888889    0
## 6788          0.48149088     0.67271773 0.64566620    0.61111111    1
## 6789          0.43927684     0.53069178 0.43017466    0.38888889    1
## 6790          0.59133040     0.48247516 0.49065523    0.50000000    1
## 6791          0.60230985     0.66376263 0.56973547    0.33333333    1
## 6792          0.55858183     0.74218798 0.66912210    0.61111111    1
## 6793          0.60464588     0.59545941 0.53240169    0.66666667    1
## 6794          0.53413063     0.50954520 0.49679031    0.27777778    0
## 6795          0.49583527     0.48689757 0.46932592    0.50000000    1
## 6796          0.37328359     0.37482386 0.37657595    0.38888889    1
## 6797          0.31096636     0.24257607 0.38345519    0.50000000    0
## 6798          0.38639452     0.28678442 0.33803258    0.33333333    1
## 6799          0.51788610     0.52560760 0.45421256    0.50000000    0
## 6800          0.57820219     0.53853894 0.51284413    0.55555556    1
## 6801          0.52683806     0.46427761 0.46071166    0.50000000    0
## 6802          0.42814457     0.40057738 0.26224846    0.33333333    1
## 6803          0.60545136     0.58913820 0.60083709    0.66666667    1
## 6804          0.41175179     0.29017121 0.45646230    0.27777778    1
## 6805          0.31869069     0.34405310 0.32073183    0.33333333    0
## 6806          0.43605102     0.41910890 0.35201757    0.44444444    0
## 6807          0.39933007     0.48385035 0.57611526    0.61111111    1
## 6808          0.45179562     0.33123259 0.50390451    0.55555556    0
## 6809          0.46899646     0.50156474 0.36939082    0.38888889    0
## 6810          0.65236158     0.75582863 0.73342399    0.72222222    1
## 6811          0.50764228     0.58163907 0.53649949    0.66666667    0
## 6812          0.42686979     0.43477627 0.44107636    0.50000000    0
## 6813          0.60558083     0.58295314 0.67792101    0.66666667    1
## 6814          0.57092458     0.63674974 0.67064537    0.72222222    0
## 6815          0.26228578     0.16195769 0.34826721    0.33333333    1
## 6816          0.46825048     0.50063857 0.52503651    0.50000000    1
## 6817          0.65104259     0.71571733 0.67226670    0.61111111    1
## 6818          0.41998011     0.46210394 0.38833056    0.33333333    0
## 6819          0.42567862     0.39189404 0.42662357    0.27777778    0
## 6820          0.39763401     0.38495323 0.38230532    0.44444444    0
## 6821          0.54559450     0.51417719 0.57004163    0.44444444    1
## 6822          0.42349335     0.34213779 0.31923829    0.22222222    0
## 6823          0.47697843     0.48898622 0.38403897    0.55555556    0
## 6824          0.44848198     0.41082360 0.52230947    0.50000000    1
## 6825          0.71876395     0.75028842 0.62329065    0.55555556    0
## 6826          0.51542210     0.55173513 0.50432159    0.38888889    0
## 6827          0.49212238     0.55579339 0.43850951    0.38888889    1
## 6828          0.51726423     0.58194728 0.53718117    0.61111111    1
## 6829          0.45807660     0.38381137 0.37419400    0.38888889    1
## 6830          0.45382574     0.57199556 0.50894080    0.38888889    0
## 6831          0.68037040     0.80977364 0.74929984    0.66666667    1
## 6832          0.52834726     0.39326897 0.36577668    0.50000000    0
## 6833          0.53224767     0.46878812 0.45640177    0.44444444    0
## 6834          0.32341148     0.34806103 0.34433540    0.22222222    0
```

653

```
## 6835          0.41930306          0.34652844 0.28318649          0.38888889  0
## 6836          0.57183939          0.62570042 0.49442806          0.55555556  1
## 6837          0.34041108          0.30883928 0.37421901          0.27777778  1
## 6838          0.49464336          0.55430790 0.61884616          0.50000000  1
## 6839          0.42322331          0.39584995 0.39083835          0.27777778  0
## 6840          0.45091738          0.35501769 0.45991023          0.55555556  1
## 6841          0.42656601          0.49281660 0.54246199          0.38888889  1
## 6842          0.56350781          0.59032217 0.50976687          0.50000000  1
## 6843          0.54441336          0.62426820 0.53294490          0.38888889  0
## 6844          0.45077636          0.40933216 0.34786598          0.50000000  1
## 6845          0.48302263          0.45320118 0.40026974          0.44444444  1
## 6846          0.47718620          0.39719062 0.39847081          0.33333333  1
## 6847          0.54768644          0.58758274 0.65242160          0.55555556  1
## 6848          0.52941861          0.58297142 0.52633245          0.61111111  0
## 6849          0.62037529          0.52189596 0.51285716          0.55555556  0
## 6850          0.50812939          0.66670941 0.50151054          0.44444444  1
## 6851          0.52871540          0.50467645 0.45622348          0.61111111  1
## 6852          0.47831342          0.47661566 0.53058136          0.55555556  1
## 6853          0.55214597          0.56239748 0.49591627          0.66666667  0
## 6854          0.47952567          0.34901764 0.33197497          0.38888889  0
## 6855          0.49231982          0.45944336 0.42993633          0.38888889  1
## 6856          0.37520081          0.31156621 0.25737682          0.33333333  0
## 6857          0.51446964          0.55868173 0.43040315          0.55555556  1
## 6858          0.42810307          0.35975883 0.33703632          0.38888889  0
## 6859          0.54905504          0.56973470 0.59272578          0.61111111  1
## 6860          0.43555199          0.36851881 0.39995646          0.44444444  0
## 6861          0.53098045          0.58435968 0.47970050          0.50000000  1
## 6862          0.32398823          0.17907757 0.23079199          0.27777778  0
## 6863          0.32137523          0.29640893 0.19736497          0.38888889  0
## 6864          0.53087781          0.58562830 0.53095732          0.38888889  0
## 6865          0.39952683          0.48771624 0.57395092          0.72222222  0
## 6866          0.66339382          0.64943268 0.66092056          0.72222222  0
## 6867          0.58854644          0.47769542 0.59595087          0.66666667  0
## 6868          0.50324531          0.44543103 0.39133472          0.44444444  0
## 6869          0.54262915          0.54236702 0.47236132          0.44444444  0
## 6870          0.65966904          0.75560029 0.72514664          0.72222222  1
## 6871          0.38327115          0.39213799 0.28563884          0.33333333  0
## 6872          0.53855221          0.51385082 0.56948948          0.44444444  1
## 6873          0.43906030          0.38068984 0.28118778          0.27777778  0
## 6874          0.68165021          0.72025278 0.66186581          0.55555556  0
## 6875          0.66513307          0.55477171 0.46813808          0.50000000  0
## 6876          0.49767873          0.43978680 0.56638007          0.66666667  0
## 6877          0.30974188          0.24166703 0.35295283          0.44444444  0
## 6878          0.46338474          0.51011471 0.38900530          0.44444444  1
## 6879          0.49328381          0.41226305 0.42999153          0.27777778  0
## 6880          0.52868150          0.48391464 0.46721321          0.55555556  1
## 6881          0.63320585          0.58091095 0.66134309          0.61111111  1
## 6882          0.53701146          0.52814144 0.58256387          0.66666667  1
## 6883          0.27404917          0.18995632 0.26602688          0.50000000  0
## 6884          0.43229699          0.44424245 0.50694601          0.61111111  1
## 6885          0.63569372          0.59445601 0.61715154          0.55555556  0
## 6886          0.56516055          0.43512530 0.50541385          0.55555556  0
## 6887          0.45130680          0.53430974 0.50227995          0.55555556  1
## 6888          0.59782171          0.60667241 0.48673780          0.55555556  0
## 6889          0.34265888          0.44338484 0.39706580          0.33333333  0
## 6890          0.48818361          0.51558433 0.53833388          0.55555556  0
## 6891          0.52391176          0.54508364 0.52727878          0.50000000  1
## 6892          0.49599044          0.67236677 0.51515647          0.38888889  0
```

```
## 6893        0.48537270        0.41531657 0.48992947        0.44444444        0
## 6894        0.57987915        0.46805322 0.55184568        0.44444444        0
## 6895        0.52762770        0.50972690 0.52678860        0.61111111        1
## 6896        0.37752624        0.55863525 0.44557270        0.44444444        1
## 6897        0.42540132        0.38637901 0.52928216        0.50000000        1
## 6898        0.52207629        0.44983484 0.36920278        0.55555556        0
## 6899        0.32560201        0.33806267 0.46872270        0.55555556        0
## 6900        0.46629065        0.41806106 0.46109328        0.50000000        0
## 6901        0.50379948        0.48563749 0.44265823        0.44444444        0
## 6902        0.53508839        0.48950690 0.41387559        0.55555556        1
## 6903        0.64547367        0.75874641 0.56935360        0.50000000        0
## 6904        0.57949292        0.59410463 0.54832253        0.44444444        0
## 6905        0.67806692        0.61904209 0.57789082        0.61111111        1
## 6906        0.59655011        0.53848416 0.51592004        0.50000000        1
## 6907        0.28751496        0.25097468 0.26777354        0.44444444        1
## 6908        0.53237570        0.42928200 0.52012298        0.38888889        1
## 6909        0.54791989        0.51432908 0.51664229        0.50000000        1
## 6910        0.39403577        0.46466367 0.53723182        0.72222222        0
## 6911        0.44350822        0.37507278 0.39224483        0.50000000        0
## 6912        0.49401210        0.37759012 0.44370251        0.55555556        1
## 6913        0.56476427        0.54132893 0.56708626        0.50000000        0
## 6914        0.51585384        0.68612067 0.52768774        0.66666667        0
## 6915        0.59495318        0.66888243 0.61254748        0.38888889        1
## 6916        0.49012993        0.46361905 0.36484011        0.27777778        1
## 6917        0.71300813        0.72261667 0.61327124        0.55555556        0
## 6918        0.53185927        0.58921633 0.55406286        0.55555556        1
## 6919        0.56346304        0.60606406 0.47118843        0.44444444        0
## 6920        0.46046601        0.39987726 0.42191070        0.50000000        0
## 6921        0.56458550        0.45336811 0.35491109        0.44444444        0
## 6922        0.26108727        0.37160002 0.35758452        0.38888889        1
## 6923        0.57020630        0.51193338 0.40638182        0.38888889        0
## 6924        0.50413520        0.40569055 0.35744435        0.44444444        0
## 6925        0.38956291        0.36782959 0.37977438        0.55555556        1
## 6926        0.39173649        0.30430085 0.42453521        0.50000000        0
## 6927        0.44777108        0.44175520 0.34499819        0.50000000        0
## 6928        0.55837858        0.60521466 0.59231065        0.50000000        0
## 6929        0.70999994        0.61936500 0.61316358        0.55555556        1
## 6930        0.47579651        0.52757372 0.43838814        0.55555556        0
## 6931        0.62979226        0.58858754 0.45066324        0.38888889        0
## 6932        0.43265290        0.33682650 0.34956858        0.55555556        0
## 6933        0.50351659        0.49967169 0.42226160        0.50000000        0
## 6934        0.49488949        0.42137601 0.38258442        0.50000000        1
## 6935        0.38825847        0.28014175 0.22663188        0.33333333        0
## 6936        0.73140917        0.63109109 0.56950695        0.55555556        0
## 6937        0.61315783        0.64201914 0.54750773        0.61111111        1
## 6938        0.54943554        0.45212063 0.44272947        0.55555556        1
## 6939        0.42683191        0.53443480 0.45336635        0.61111111        1
## 6940        0.63640997        0.53455406 0.50580320        0.55555556        1
## 6941        0.48355693        0.33736130 0.35094095        0.38888889        0
## 6942        0.36068454        0.45492115 0.53085083        0.61111111        0
## 6943        0.41964347        0.45424603 0.39122426        0.55555556        0
## 6944        0.28933453        0.23042104 0.36269253        0.38888889        0
## 6945        0.42581733        0.34743305 0.39356777        0.66666667        0
## 6946        0.46476468        0.42765576 0.46257941        0.55555556        0
## 6947        0.33912744        0.38682933 0.25257871        0.27777778        0
## 6948        0.44986853        0.53979719 0.59520285        0.55555556        1
## 6949        0.35677418        0.35201366 0.18318915        0.27777778        0
## 6950        0.68281257        0.49954119 0.51212177        0.50000000        1
```

```
## 6951          0.34978783          0.32035158 0.39872763          0.22222222   0
## 6952          0.50042083          0.44227793 0.57981473          0.66666667   1
## 6953          0.57220643          0.60353895 0.53252825          0.33333333   0
## 6954          0.44897033          0.47546293 0.49213216          0.61111111   1
## 6955          0.43482236          0.52970447 0.67618086          0.66666667   1
## 6956          0.40145812          0.45123172 0.33977433          0.05555556   0
## 6957          0.59140697          0.50590277 0.52688239          0.38888889   1
## 6958          0.26438967          0.43826052 0.63637172          0.61111111   1
## 6959          0.46513164          0.30587760 0.44101965          0.55555556   0
## 6960          0.47270646          0.49186735 0.42237420          0.33333333   1
## 6961          0.55057916          0.55900352 0.58603942          0.50000000   1
## 6962          0.77947486          0.54662035 0.66064157          0.66666667   0
## 6963          0.47177068          0.39272040 0.34277836          0.38888889   0
## 6964          0.43734298          0.38024159 0.45813798          0.44444444   1
## 6965          0.44008123          0.35663524 0.36441029          0.33333333   0
## 6966          0.39013822          0.44344558 0.55919686          0.50000000   0
## 6967          0.43903635          0.41425610 0.36248220          0.27777778   0
## 6968          0.57296059          0.53991937 0.43061285          0.61111111   0
## 6969          0.53266151          0.35259193 0.30448129          0.16666667   0
## 6970          0.35462904          0.28632974 0.38850214          0.33333333   0
## 6971          0.64039545          0.63143825 0.51024356          0.66666667   1
## 6972          0.44413239          0.28733844 0.39242990          0.27777778   0
## 6973          0.32290798          0.35796987 0.46720737          0.55555556   0
## 6974          0.57031686          0.51546405 0.48508647          0.50000000   0
## 6975          0.27316319          0.43576889 0.62216809          0.66666667   1
## 6976          0.69693614          0.70371806 0.72689500          0.66666667   1
## 6977          0.65132461          0.64161325 0.64713733          0.61111111   1
## 6978          0.42240614          0.50802368 0.56610165          0.66666667   1
## 6979          0.63114478          0.75776597 0.56016248          0.44444444   0
## 6980          0.37632083          0.53599501 0.45430141          0.38888889   0
## 6981          0.50288052          0.51250060 0.62967496          0.72222222   0
## 6982          0.46583223          0.52377012 0.44154297          0.38888889   0
## 6983          0.54159526          0.55753936 0.59013016          0.55555556   1
## 6984          0.52012350          0.48122222 0.43425097          0.38888889   0
## 6985          0.48497758          0.43467145 0.41668838          0.27777778   0
## 6986          0.47543089          0.47135808 0.47544059          0.61111111   1
## 6987          0.61502197          0.65753607 0.58914854          0.55555556   1
## 6988          0.55138953          0.51178140 0.48348246          0.66666667   0
## 6989          0.53712382          0.48528574 0.51851171          0.50000000   1
## 6990          0.49581054          0.56729365 0.53543799          0.61111111   1
## 6991          0.19368293          0.22697478 0.20199151          0.33333333   0
## 6992          0.57410697          0.46597452 0.51017687          0.50000000   0
## 6993          0.55296345          0.40804611 0.37049206          0.33333333   0
## 6994          0.63017144          0.71680978 0.61056425          0.72222222   1
## 6995          0.54835440          0.52969713 0.40662091          0.50000000   0
## 6996          0.49442147          0.55296869 0.50150247          0.44444444   1
## 6997          0.42138186          0.23692608 0.22408018          0.16666667   0
## 6998          0.35023898          0.37669004 0.49323934          0.38888889   1
## 6999          0.49255047          0.50790568 0.52008084          0.72222222   1
## 7000          0.50289150          0.51555309 0.55835415          0.55555556   1
## 7001          0.57731229          0.60118052 0.66129447          0.88888889   1
## 7002          0.38619085          0.32112238 0.41961227          0.50000000   0
## 7003          0.56105156          0.45374605 0.52769570          0.44444444   1
## 7004          0.41694179          0.36097570 0.17788671          0.27777778   0
## 7005          0.47524717          0.46617608 0.56497070          0.55555556   1
## 7006          0.61181244          0.53159275 0.42332660          0.38888889   0
## 7007          0.39933221          0.38368248 0.37783013          0.50000000   0
## 7008          0.55378002          0.62498757 0.63814370          0.50000000   1
```

```
## 7009          0.58363438          0.63828131 0.56429031          0.50000000   1
## 7010          0.53744106          0.68023434 0.67948216          0.66666667   1
## 7011          0.22473297          0.28273822 0.38746173          0.38888889   0
## 7012          0.40504625          0.36366684 0.31957609          0.50000000   0
## 7013          0.34369095          0.33894563 0.36215036          0.44444444   0
## 7014          0.64133183          0.60923060 0.53797672          0.55555556   1
## 7015          0.48794713          0.47830260 0.37862379          0.38888889   0
## 7016          0.45784253          0.48034325 0.40159702          0.44444444   0
## 7017          0.60067408          0.74887729 0.64106265          0.55555556   1
## 7018          0.48973146          0.35945554 0.39416671          0.61111111   0
## 7019          0.34210847          0.20664606 0.25010818          0.38888889   0
## 7020          0.57791991          0.59714137 0.69967570          0.61111111   1
## 7021          0.37679480          0.42786653 0.38274446          0.50000000   0
## 7022          0.42021202          0.38394026 0.46950466          0.61111111   1
## 7023          0.52376958          0.55560814 0.50648491          0.44444444   0
## 7024          0.32930172          0.17967819 0.23126203          0.22222222   0
## 7025          0.48447636          0.44678463 0.40514841          0.50000000   0
## 7026          0.45042525          0.57006321 0.41226256          0.33333333   0
## 7027          0.51148577          0.62999924 0.56393703          0.61111111   1
## 7028          0.53467067          0.50373226 0.56137330          0.50000000   0
## 7029          0.56441886          0.62332830 0.57503406          0.66666667   1
## 7030          0.61432979          0.59236754 0.52928687          0.44444444   0
## 7031          0.48287868          0.51461346 0.63582953          0.61111111   1
## 7032          0.47038694          0.36784565 0.34827083          0.44444444   0
## 7033          0.54654947          0.59905322 0.55400823          0.44444444   0
## 7034          0.58940583          0.63628392 0.46703434          0.38888889   0
## 7035          0.30525455          0.27370578 0.30474143          0.27777778   0
## 7036          0.47953616          0.44710009 0.32763845          0.44444444   0
## 7037          0.45702991          0.43426647 0.47219034          0.38888889   0
## 7038          0.63881310          0.69752658 0.64285234          0.66666667   1
## 7039          0.41707251          0.51890254 0.47875636          0.38888889   0
## 7040          0.46885616          0.41454195 0.40656009          0.50000000   1
## 7041          0.46576633          0.54067785 0.35977999          0.50000000   0
## 7042          0.63523219          0.65330629 0.57761762          0.50000000   1
## 7043          0.30824542          0.23963061 0.35344172          0.44444444   0
## 7044          0.55306041          0.55147290 0.63386640          0.50000000   1
## 7045          0.52910809          0.39378671 0.36551591          0.44444444   0
## 7046          0.39837417          0.43096439 0.34493231          0.50000000   0
## 7047          0.55607445          0.59991504 0.56724618          0.55555556   0
## 7048          0.50047408          0.53857780 0.48996808          0.61111111   1
## 7049          0.54365210          0.53643426 0.43649416          0.44444444   0
## 7050          0.52620923          0.58431264 0.54187819          0.61111111   1
## 7051          0.61403751          0.46304008 0.43904929          0.55555556   0
## 7052          0.59693457          0.56447368 0.57360165          0.61111111   0
## 7053          0.37206002          0.28051946 0.44228286          0.61111111   0
## 7054          0.52441079          0.52925141 0.47601777          0.72222222   1
## 7055          0.64732059          0.33249922 0.56299554          0.44444444   1
## 7056          0.42244206          0.55004671 0.44560145          0.38888889   1
## 7057          0.36162016          0.30324822 0.49992513          0.55555556   1
## 7058          0.49433432          0.54207810 0.59317148          0.55555556   1
## 7059          0.66124341          0.65516009 0.59001926          0.72222222   1
## 7060          0.43986488          0.56146214 0.51040692          0.61111111   1
## 7061          0.49805636          0.45264856 0.46446065          0.55555556   1
## 7062          0.63847094          0.67434967 0.52737996          0.61111111   1
## 7063          0.55003905          0.56327781 0.62496947          0.66666667   1
## 7064          0.45599944          0.42644425 0.36654774          0.44444444   0
## 7065          0.40087493          0.36917651 0.24647344          0.22222222   0
## 7066          0.43494758          0.32803352 0.40257674          0.33333333   1
```

```
## 7067            0.82735616    0.56920034 0.39190722    0.50000000    1
## 7068            0.68477750    0.88915863 0.75167833    0.72222222    1
## 7069            0.57100409    0.48414723 0.44810732    0.44444444    0
## 7070            0.35391446    0.46074593 0.40132290    0.44444444    0
## 7071            0.46942061    0.48054297 0.43519493    0.44444444    0
## 7072            0.41753248    0.38313213 0.41898678    0.38888889    0
## 7073            0.64982593    0.37506603 0.41142699    0.44444444    0
## 7074            0.57499784    0.50993340 0.44677237    0.33333333    0
## 7075            0.63768673    0.71566462 0.61819567    0.61111111    1
## 7076            0.55732958    0.54034264 0.47637406    0.50000000    1
## 7077            0.47187623    0.42534074 0.48185698    0.72222222    0
## 7078            0.50863893    0.48599485 0.56290906    0.55555556    1
## 7079            0.44666138    0.48787838 0.56029819    0.61111111    1
## 7080            0.43333391    0.40373325 0.41429037    0.33333333    0
## 7081            0.59096503    0.55048067 0.49086249    0.55555556    1
## 7082            0.24867105    0.12710741 0.16727120    0.22222222    0
## 7083            0.44871061    0.38180918 0.37344517    0.38888889    0
## 7084            0.57134862    0.55192995 0.45577494    0.44444444    1
## 7085            0.43672270    0.42830138 0.47915227    0.50000000    1
## 7086            0.53277385    0.58275499 0.54635747    0.50000000    1
## 7087            0.60290863    0.64051675 0.61280586    0.55555556    1
## 7088            0.49131954    0.44957231 0.28358744    0.27777778    0
## 7089            0.48609401    0.42248889 0.44522023    0.50000000    1
## 7090            0.65099987    0.70537533 0.62578884    0.50000000    1
## 7091            0.64372860    0.44654549 0.50021297    0.77777778    0
## 7092            0.53845270    0.44785486 0.44419723    0.50000000    0
## 7093            0.66551138    0.64515859 0.65253241    0.55555556    1
## 7094            0.58651545    0.54739802 0.47119640    0.50000000    1
## 7095            0.43474627    0.53491461 0.56319922    0.72222222    0
## 7096            0.58937756    0.63172906 0.57653280    0.50000000    1
## 7097            0.46685269    0.41603873 0.49462245    0.44444444    1
## 7098            0.37843727    0.37311804 0.32068173    0.33333333    0
## 7099            0.52625661    0.58849402 0.58173870    0.44444444    1
## 7100            0.36899120    0.43198158 0.48877602    0.44444444    0
## 7101            0.49037151    0.47247506 0.52229203    0.55555556    1
## 7102            0.46210813    0.37824458 0.32019576    0.27777778    0
## 7103            0.69321900    0.70163440 0.72622556    0.72222222    1
## 7104            0.54315222    0.49160797 0.55486380    0.61111111    0
## 7105            0.46272520    0.42693432 0.33347952    0.44444444    0
## 7106            0.66217404    0.62152960 0.38899862    0.50000000    0
## 7107            0.57165399    0.65236617 0.51675687    0.50000000    0
## 7108            0.58394006    0.49888741 0.41047916    0.50000000    0
## 7109            0.43795546    0.31817847 0.35910180    0.38888889    0
## 7110            0.37008387    0.44669287 0.26988943    0.27777778    0
## 7111            0.57314359    0.68153525 0.65571523    0.66666667    1
## 7112            0.38219704    0.31867112 0.35426561    0.44444444    1
## 7113            0.54464044    0.57059630 0.51545000    0.61111111    0
## 7114            0.55193402    0.54158038 0.43695064    0.55555556    0
## 7115            0.47208006    0.38177897 0.41474643    0.44444444    0
## 7116            0.45954409    0.48602761 0.41120684    0.50000000    0
## 7117            0.41308056    0.42302132 0.30142266    0.27777778    1
## 7118            0.51506202    0.48648434 0.48254010    0.50000000    1
## 7119            0.42875554    0.39384685 0.41519090    0.50000000    1
## 7120            0.35460079    0.25085801 0.24337438    0.38888889    1
## 7121            0.57966234    0.54433866 0.48311345    0.50000000    0
## 7122            0.46203063    0.48192778 0.52656592    0.50000000    0
## 7123            0.52883968    0.51307080 0.54840887    0.55555556    0
## 7124            0.50056849    0.57031107 0.46357199    0.55555556    0
```

```
## 7125          0.49958807          0.39763892 0.41393281          0.33333333  0
## 7126          0.62569399          0.46385759 0.53183191          0.66666667  1
## 7127          0.62504630          0.65493243 0.50620178          0.44444444  1
## 7128          0.62265612          0.60658383 0.49774669          0.50000000  1
## 7129          0.59618949          0.64066786 0.55140193          0.38888889  0
## 7130          0.69133589          0.61913600 0.61649433          0.83333333  1
## 7131          0.48578066          0.45506972 0.44764838          0.66666667  0
## 7132          0.52823440          0.46301554 0.45807799          0.55555556  1
## 7133          0.55966817          0.49297815 0.38368752          0.33333333  1
## 7134          0.39129878          0.40113147 0.38086898          0.50000000  0
## 7135          0.51060369          0.40649933 0.54447443          0.50000000  1
## 7136          0.53199247          0.30395303 0.49896402          0.44444444  1
## 7137          0.47886328          0.45400047 0.53899955          0.61111111  1
## 7138          0.29749506          0.31198356 0.27351532          0.27777778  0
## 7139          0.53443094          0.61346738 0.53313454          0.38888889  1
## 7140          0.43942819          0.42418653 0.38734150          0.50000000  0
## 7141          0.38886669          0.52543740 0.42703684          0.50000000  1
## 7142          0.47026186          0.42612025 0.36248472          0.44444444  0
## 7143          0.40348597          0.47250195 0.49898168          0.44444444  0
## 7144          0.35117767          0.36873232 0.36284271          0.38888889  0
## 7145          0.53108643          0.52802705 0.61245599          0.66666667  0
## 7146          0.48507557          0.52067625 0.46559150          0.44444444  0
## 7147          0.49112011          0.55619838 0.55083303          0.61111111  0
## 7148          0.59009859          0.60212417 0.50708995          0.50000000  0
## 7149          0.35876410          0.39066465 0.46116731          0.55555556  0
## 7150          0.44972488          0.53904280 0.49172614          0.44444444  0
## 7151          0.56698413          0.49171542 0.52454196          0.50000000  1
## 7152          0.42432815          0.55764163 0.58257696          0.50000000  1
## 7153          0.50179404          0.51830506 0.53169770          0.50000000  1
## 7154          0.64255091          0.63248041 0.56976946          0.50000000  1
## 7155          0.43714412          0.37519281 0.46243961          0.33333333  1
## 7156          0.48920390          0.48326943 0.55904129          0.55555556  1
## 7157          0.64147126          0.73399094 0.56987822          0.44444444  0
## 7158          0.44023313          0.44066032 0.49170331          0.55555556  1
## 7159          0.36336911          0.38879101 0.52329991          0.55555556  0
## 7160          0.47182437          0.43144759 0.39793806          0.50000000  0
## 7161          0.58212196          0.49575497 0.42632934          0.38888889  0
## 7162          0.45052870          0.42542619 0.43365002          0.33333333  1
## 7163          0.58367647          0.47161427 0.44838102          0.38888889  1
## 7164          0.59538505          0.62471388 0.50902580          0.50000000  1
## 7165          0.57067284          0.55235734 0.44450492          0.50000000  1
## 7166          0.58873289          0.53384123 0.48227590          0.44444444  0
## 7167          0.57264476          0.50904782 0.40233991          0.33333333  0
## 7168          0.59849218          0.58602095 0.50643434          0.55555556  1
## 7169          0.48072437          0.50627264 0.43165025          0.38888889  0
## 7170          0.64068045          0.60668471 0.43651815          0.55555556  1
## 7171          0.40499161          0.37236806 0.30069443          0.38888889  0
## 7172          0.71699152          0.60719983 0.48508647          0.50000000  0
## 7173          0.45595460          0.47550851 0.45606420          0.33333333  0
## 7174          0.37279302          0.38904057 0.53029954          0.44444444  0
## 7175          0.51706100          0.43797595 0.38959221          0.44444444  1
## 7176          0.55788895          0.60133601 0.57613519          0.61111111  1
## 7177          0.62769804          0.65939616 0.58819940          0.61111111  1
## 7178          0.67407511          0.61020906 0.50699382          0.38888889  0
## 7179          0.44333167          0.46790156 0.50735740          0.55555556  1
## 7180          0.48692564          0.37240971 0.42079709          0.44444444  1
## 7181          0.44869499          0.28040076 0.36909652          0.33333333  0
## 7182          0.45330030          0.42205617 0.28583920          0.44444444  1
```

659

```
## 7183            0.52650286        0.41279849 0.47777167        0.38888889   0
## 7184            0.59426387        0.73124185 0.64736947        0.66666667   1
## 7185            0.51537144        0.33745080 0.25576084        0.33333333   0
## 7186            0.54438830        0.47087200 0.52589329        0.72222222   1
## 7187            0.47412834        0.50760072 0.53658336        0.55555556   1
## 7188            0.71585740        0.79003999 0.60750796        0.55555556   1
## 7189            0.43696478        0.40201760 0.42257283        0.44444444   1
## 7190            0.56838756        0.52848380 0.60729274        0.66666667   1
## 7191            0.56719416        0.52941648 0.48762332        0.50000000   1
## 7192            0.61746319        0.61441534 0.49883056        0.55555556   1
## 7193            0.54218948        0.52335665 0.44183791        0.44444444   0
## 7194            0.33120562        0.39265837 0.39988845        0.44444444   0
## 7195            0.33453353        0.44965122 0.42472702        0.38888889   0
## 7196            0.29324782        0.39641273 0.52997744        0.66666667   0
## 7197            0.39355369        0.31351033 0.30507724        0.44444444   0
## 7198            0.67227922        0.72172754 0.74362016        0.94444444   0
## 7199            0.49096312        0.58206574 0.49256991        0.50000000   0
## 7200            0.50802093        0.43291280 0.45097993        0.44444444   1
## 7201            0.50165374        0.59745132 0.66186923        0.77777778   1
## 7202            0.39096322        0.26943518 0.27312182        0.44444444   0
## 7203            0.52839344        0.47340733 0.53956909        0.83333333   0
## 7204            0.46774108        0.41635896 0.58256067        0.55555556   0
## 7205            0.38707098        0.38215317 0.40005205        0.33333333   1
## 7206            0.60626392        0.68586795 0.70244524        0.66666667   1
## 7207            0.64874394        0.54030477 0.47269435        0.55555556   1
## 7208            0.47119830        0.36234133 0.43274928        0.66666667   0
## 7209            0.39890373        0.48984001 0.45893128        0.38888889   1
## 7210            0.59271001        0.56311177 0.56503307        0.50000000   1
## 7211            0.73106028        0.71627951 0.73097134        0.66666667   1
## 7212            0.38351971        0.28815726 0.31195194        0.16666667   0
## 7213            0.42253305        0.41707005 0.41383997        0.50000000   0
## 7214            0.44758039        0.48881319 0.41499699        0.38888889   0
## 7215            0.51852110        0.63474085 0.57618171        0.55555556   1
## 7216            0.41278209        0.50467355 0.42865150        0.38888889   1
## 7217            0.78048929        0.62345971 0.40953573        0.44444444   1
## 7218            0.48073127        0.45273103 0.41347770        0.16666667   0
## 7219            0.46348028        0.39448771 0.43280376        0.61111111   1
## 7220            0.48472309        0.48371812 0.34346962        0.27777778   1
## 7221            0.61290763        0.56677390 0.53854075        0.72222222   1
## 7222            0.59004001        0.54934935 0.58667059        0.61111111   1
## 7223            0.56771643        0.40229323 0.41261801        0.22222222   0
## 7224            0.36427779        0.31026854 0.39005875        0.27777778   0
## 7225            0.43368844        0.47183589 0.53527922        0.77777778   1
## 7226            0.36803650        0.44408174 0.26572212        0.27777778   0
## 7227            0.59550179        0.72410218 0.82847997        0.72222222   1
## 7228            0.43029924        0.37465988 0.36699064        0.22222222   0
## 7229            0.70285438        0.73223670 0.68326128        0.77777778   1
## 7230            0.58373105        0.48835964 0.49552156        0.50000000   1
## 7231            0.59301558        0.67595794 0.71613319        0.66666667   1
## 7232            0.61764160        0.61113022 0.68488214        0.55555556   1
## 7233            0.38764271        0.31581413 0.26150161        0.44444444   0
## 7234            0.47230072        0.54782285 0.52528296        0.50000000   1
## 7235            0.45122512        0.33871821 0.37511108        0.66666667   1
## 7236            0.48701857        0.54174997 0.53074366        0.61111111   1
## 7237            0.45831914        0.45735698 0.59407974        0.61111111   1
## 7238            0.61753087        0.60571439 0.47544522        0.50000000   0
## 7239            0.52117770        0.57280415 0.49861031        0.55555556   0
## 7240            0.58825878        0.70299385 0.76223028        0.66666667   1
```

```
## 7241          0.49093342          0.39828610 0.41307322          0.27777778   0
## 7242          0.73968683          0.79436967 0.65550206          0.66666667   0
## 7243          0.49092108          0.42167934 0.61278960          0.55555556   0
## 7244          0.47774997          0.68954445 0.66944050          0.66666667   1
## 7245          0.55532274          0.63093053 0.49379079          0.55555556   1
## 7246          0.53811183          0.47663599 0.40447326          0.50000000   0
## 7247          0.67410523          0.74033934 0.73213425          0.77777778   0
## 7248          0.41468880          0.43065205 0.38353473          0.38888889   1
## 7249          0.58571115          0.51357569 0.52486314          0.50000000   1
## 7250          0.60103819          0.50362135 0.64830159          0.72222222   1
## 7251          0.53052832          0.52568140 0.63983125          0.61111111   1
## 7252          0.54283001          0.54413828 0.65564440          0.66666667   1
## 7253          0.64817993          0.52711324 0.44648990          0.50000000   0
## 7254          0.61577721          0.61416855 0.70648978          0.61111111   1
## 7255          0.53792364          0.63311109 0.71910402          0.55555556   1
## 7256          0.47435741          0.50277184 0.53132381          0.44444444   1
## 7257          0.50906870          0.39027363 0.37559264          0.38888889   1
## 7258          0.54032696          0.51604181 0.56717536          0.50000000   1
## 7259          0.60875138          0.55727897 0.63269639          0.72222222   1
## 7260          0.42740766          0.42400263 0.51206185          0.44444444   1
## 7261          0.48880236          0.49948175 0.43734255          0.55555556   1
## 7262          0.60478945          0.66858384 0.63883955          0.50000000   1
## 7263          0.52602848          0.48446875 0.44529720          0.33333333   1
## 7264          0.38702390          0.37355675 0.49521465          0.33333333   1
## 7265          0.58393082          0.54448748 0.40844855          0.55555556   1
## 7266          0.54766109          0.49062003 0.41484975          0.55555556   0
## 7267          0.51013411          0.46139852 0.52558660          0.50000000   1
## 7268          0.76201125          0.55454865 0.27375268          0.33333333   1
## 7269          0.55131061          0.54747875 0.52022631          0.55555556   1
## 7270          0.61660401          0.56117367 0.62646246          0.55555556   1
## 7271          0.53400203          0.54678549 0.62960940          0.50000000   1
## 7272          0.53119144          0.65908949 0.61761891          0.61111111   1
## 7273          0.44944515          0.40586463 0.32171824          0.44444444   0
## 7274          0.33566231          0.34008119 0.35236162          0.55555556   0
## 7275          0.54464429          0.49653883 0.51182696          0.55555556   1
## 7276          0.41530440          0.33407822 0.47923790          0.33333333   0
## 7277          0.32686264          0.49245529 0.67465132          0.66666667   1
## 7278          0.56103187          0.56343324 0.59514698          0.50000000   1
## 7279          0.46459435          0.50618353 0.39007450          0.38888889   0
## 7280          0.54847791          0.54692576 0.47012320          0.44444444   1
## 7281          0.40620283          0.25280713 0.39632993          0.38888889   0
## 7282          0.54852812          0.55877516 0.59462156          0.61111111   1
## 7283          0.48777328          0.49934906 0.55180547          0.55555556   1
## 7284          0.50078425          0.57224354 0.35878262          0.33333333   0
## 7285          0.48637526          0.44805993 0.43797481          0.55555556   1
## 7286          0.58191735          0.67814507 0.64736752          0.55555556   0
## 7287          0.38974670          0.36977339 0.45896413          0.38888889   0
## 7288          0.46602600          0.58254166 0.57421445          0.66666667   1
## 7289          0.58424276          0.65122542 0.48130694          0.44444444   1
## 7290          0.62670324          0.54255484 0.55269625          0.61111111   1
## 7291          0.49736284          0.46994299 0.51547101          0.44444444   1
## 7292          0.46017388          0.46871470 0.45914637          0.61111111   0
## 7293          0.28786667          0.32749366 0.47347065          0.38888889   1
## 7294          0.52129976          0.53456212 0.49724028          0.55555556   1
## 7295          0.39559209          0.45566523 0.51621817          0.50000000   1
## 7296          0.50385839          0.53771756 0.52699618          0.66666667   0
## 7297          0.64899777          0.50186023 0.50322992          0.50000000   0
## 7298          0.39506786          0.49857191 0.53878825          0.44444444   1
```

661

```
## 7299          0.49753414      0.59169731 0.45036128     0.44444444  0
## 7300          0.58534928      0.47361218 0.50636724     0.50000000  0
## 7301          0.72525826      0.61248621 0.50877812     0.66666667  1
## 7302          0.54865132      0.59186674 0.60591387     0.50000000  1
## 7303          0.42508914      0.39793398 0.31961425     0.33333333  0
## 7304          0.47818637      0.57116608 0.67803901     0.72222222  1
## 7305          0.50206591      0.41459916 0.39077836     0.44444444  0
## 7306          0.60218338      0.51152725 0.56872563     0.66666667  1
## 7307          0.48458825      0.72258472 0.66182920     0.61111111  1
## 7308          0.64007492      0.72057475 0.53425418     0.38888889  1
## 7309          0.55174642      0.52553771 0.53728362     0.55555556  1
## 7310          0.53522016      0.53598295 0.41141236     0.33333333  1
## 7311          0.45204976      0.53343124 0.42507939     0.50000000  1
## 7312          0.60093029      0.65263679 0.46897346     0.38888889  0
## 7313          0.47427500      0.57178099 0.54259521     0.66666667  0
## 7314          0.47963280      0.42282660 0.43098239     0.44444444  1
## 7315          0.44730341      0.47448642 0.44037672     0.27777778  1
## 7316          0.58359377      0.55794055 0.53593322     0.50000000  1
## 7317          0.61981974      0.72092663 0.61339884     0.61111111  1
## 7318          0.53987984      0.50322896 0.50091306     0.38888889  0
## 7319          0.42001787      0.28900862 0.39520952     0.38888889  0
## 7320          0.39205818      0.37755019 0.39180061     0.27777778  0
## 7321          0.46695747      0.52152081 0.43044234     0.50000000  1
## 7322          0.42889316      0.50094584 0.54789946     0.38888889  0
## 7323          0.59940462      0.53454967 0.51972947     0.44444444  0
## 7324          0.66439985      0.67334786 0.52415230     0.61111111  1
## 7325          0.50717392      0.51898348 0.54963970     0.61111111  1
## 7326          0.46274177      0.33400974 0.36542213     0.38888889  0
## 7327          0.55633066      0.63139777 0.65294827     0.66666667  0
## 7328          0.43635443      0.39616313 0.56647362     0.55555556  1
## 7329          0.66743467      0.72609764 0.58508107     0.55555556  0
## 7330          0.57072809      0.52294688 0.49938697     0.50000000  0
## 7331          0.45270585      0.43568851 0.49666153     0.66666667  1
## 7332          0.57401938      0.56767872 0.43646002     0.44444444  1
## 7333          0.62654100      0.71856264 0.58335989     0.50000000  1
## 7334          0.51201616      0.57950767 0.45691033     0.44444444  1
## 7335          0.54160060      0.42359835 0.44510777     0.61111111  1
## 7336          0.71200929      0.78089571 0.63946886     0.50000000  1
## 7337          0.42295394      0.44164738 0.52560467     0.61111111  0
## 7338          0.58557875      0.57886033 0.48508647     0.44444444  0
## 7339          0.67830906      0.59341212 0.63306311     0.66666667  1
## 7340          0.55015252      0.54999954 0.47120352     0.50000000  0
## 7341          0.49482548      0.50589867 0.43028718     0.44444444  0
## 7342          0.25626078      0.35994361 0.43423235     0.27777778  1
## 7343          0.37262425      0.41944925 0.38574418     0.50000000  0
## 7344          0.60252812      0.59742395 0.58736122     0.66666667  0
## 7345          0.55138852      0.44516940 0.50992089     0.44444444  0
## 7346          0.67449057      0.72055869 0.56882476     0.44444444  0
## 7347          0.57005847      0.50089302 0.56822824     0.50000000  1
## 7348          0.78410120      0.64094116 0.54826224     0.83333333  1
## 7349          0.36352753      0.25316985 0.43250267     0.61111111  1
## 7350          0.62160774      0.59598992 0.45447592     0.55555556  1
## 7351          0.46216938      0.35233277 0.45257868     0.44444444  0
## 7352          0.39429799      0.54150573 0.48166286     0.38888889  1
## 7353          0.49922357      0.44028281 0.41897617     0.44444444  1
## 7354          0.44356158      0.37332720 0.43223532     0.44444444  1
## 7355          0.48057648      0.54616485 0.50063432     0.55555556  1
## 7356          0.48361098      0.47508844 0.43490298     0.55555556  0
```

```
## 7357          0.44773661          0.55277651 0.54965361          0.50000000   0
## 7358          0.45065936          0.44273883 0.45698894          0.50000000   0
## 7359          0.41478075          0.38310689 0.46793823          0.44444444   0
## 7360          0.57953281          0.61020767 0.69460166          0.72222222   1
## 7361          0.45103995          0.49167407 0.57883266          0.66666667   1
## 7362          0.51768615          0.50366873 0.41141904          0.44444444   0
## 7363          0.37036422          0.38756321 0.45545403          0.50000000   1
## 7364          0.44515824          0.60294417 0.69915935          0.55555556   1
## 7365          0.56961858          0.54841435 0.50375086          0.55555556   0
## 7366          0.52709575          0.44687101 0.48339844          0.55555556   1
## 7367          0.54602269          0.51152157 0.43373780          0.33333333   0
## 7368          0.55294730          0.76199360 0.60935581          0.61111111   0
## 7369          0.44787847          0.46114441 0.55939993          0.72222222   1
## 7370          0.55189982          0.46567302 0.49717123          0.44444444   0
## 7371          0.41219118          0.36067511 0.42761638          0.38888889   1
## 7372          0.29646770          0.30672725 0.21059215          0.27777778   0
## 7373          0.51240136          0.65227506 0.50604132          0.44444444   1
## 7374          0.57552754          0.69424075 0.61258237          0.55555556   0
## 7375          0.48204398          0.51920739 0.46901349          0.44444444   0
## 7376          0.61647124          0.68153519 0.61972382          0.50000000   0
## 7377          0.37450905          0.30725258 0.40343818          0.38888889   0
## 7378          0.51392209          0.78257990 0.54033108          0.61111111   1
## 7379          0.42472803          0.37324164 0.38462811          0.44444444   0
## 7380          0.66432348          0.78370043 0.55243228          0.50000000   1
## 7381          0.58393104          0.49814175 0.42850892          0.44444444   1
## 7382          0.48920410          0.34751934 0.42381461          0.38888889   0
## 7383          0.44828320          0.47803824 0.47843570          0.44444444   1
## 7384          0.49883198          0.38090860 0.50204315          0.44444444   1
## 7385          0.46459111          0.43738963 0.44056700          0.44444444   1
## 7386          0.45352177          0.41978921 0.52454080          0.55555556   0
## 7387          0.47250743          0.47275827 0.47187580          0.44444444   1
## 7388          0.68183121          0.81459382 0.54510471          0.61111111   1
## 7389          0.57552266          0.58028317 0.56186734          0.61111111   0
## 7390          0.55975470          0.73115669 0.66110231          0.55555556   1
## 7391          0.53696023          0.54662516 0.51086729          0.66666667   0
## 7392          0.58963165          0.58938296 0.47824824          0.33333333   0
## 7393          0.55633608          0.48112491 0.47305926          0.27777778   0
## 7394          0.28948545          0.28160325 0.32141208          0.38888889   0
## 7395          0.29885498          0.13509259 0.18124110          0.33333333   0
## 7396          0.61647844          0.57562118 0.47671549          0.66666667   0
## 7397          0.54605960          0.62506441 0.46450234          0.44444444   0
## 7398          0.47206640          0.44988973 0.48577287          0.44444444   0
## 7399          0.48651006          0.45899096 0.41649654          0.44444444   0
## 7400          0.46403141          0.33226588 0.36747523          0.44444444   0
## 7401          0.50354817          0.56269884 0.49723267          0.33333333   0
## 7402          0.36777453          0.34578646 0.38386507          0.55555556   0
## 7403          0.67431308          0.71969821 0.64885424          0.61111111   1
## 7404          0.51617424          0.48396272 0.56328295          0.61111111   0
## 7405          0.55042534          0.63850936 0.53174320          0.55555556   1
## 7406          0.67134971          0.72016764 0.57630520          0.44444444   0
## 7407          0.37544175          0.31135858 0.28170610          0.44444444   1
## 7408          0.42407378          0.25910122 0.36604634          0.55555556   1
## 7409          0.60938127          0.68037423 0.50412613          0.38888889   0
## 7410          0.47145705          0.57546149 0.50063934          0.50000000   1
## 7411          0.52805729          0.59549049 0.61334562          0.66666667   1
## 7412          0.55295903          0.42876815 0.40492226          0.50000000   0
## 7413          0.58519534          0.52312791 0.42896008          0.50000000   0
## 7414          0.65644966          0.50854228 0.46141525          0.55555556   1
```

663

```
## 7415          0.37122033          0.36148098 0.35453587          0.38888889  1
## 7416          0.62215354          0.67128876 0.59801020          0.50000000  1
## 7417          0.49124957          0.37818312 0.30089635          0.16666667  0
## 7418          0.51703530          0.52552785 0.46681006          0.50000000  1
## 7419          0.58039610          0.50437108 0.43427621          0.50000000  1
## 7420          0.53996858          0.48485995 0.37832999          0.50000000  0
## 7421          0.51783430          0.55289416 0.46456003          0.44444444  1
## 7422          0.45740278          0.51607197 0.39331277          0.27777778  0
## 7423          0.50717732          0.56707914 0.64439999          0.72222222  1
## 7424          0.42464428          0.46830899 0.41797308          0.44444444  0
## 7425          0.23554175          0.28612130 0.30458267          0.27777778  1
## 7426          0.66527713          0.54515459 0.44177946          0.38888889  0
## 7427          0.51349603          0.65596935 0.61376568          0.55555556  1
## 7428          0.43965293          0.47709560 0.51824288          0.50000000  1
## 7429          0.45227868          0.43438859 0.49440688          0.44444444  0
## 7430          0.65478609          0.63332151 0.63798302          0.66666667  1
## 7431          0.35549618          0.39296364 0.45193970          0.50000000  0
## 7432          0.42919528          0.46066828 0.47925002          0.38888889  0
## 7433          0.44871301          0.31585847 0.49122476          0.33333333  0
## 7434          0.53551681          0.55336664 0.51722253          0.55555556  1
## 7435          0.47611769          0.45746120 0.39661867          0.44444444  1
## 7436          0.30621757          0.22345069 0.41139896          0.27777778  1
## 7437          0.25022201          0.41639293 0.53761258          0.50000000  1
## 7438          0.29608549          0.31010285 0.21308144          0.27777778  1
## 7439          0.44644011          0.35235400 0.38569780          0.44444444  1
## 7440          0.42273563          0.51004249 0.58279361          0.50000000  1
## 7441          0.51086062          0.40335109 0.49046593          0.55555556  0
## 7442          0.37798309          0.34717277 0.29698108          0.38888889  0
## 7443          0.50645382          0.48066310 0.48949003          0.72222222  1
## 7444          0.50564300          0.52282520 0.55472454          0.44444444  1
## 7445          0.40693721          0.36027067 0.51201766          0.77777778  1
## 7446          0.60657756          0.51391117 0.36451291          0.33333333  0
## 7447          0.41028893          0.34300129 0.38025337          0.33333333  0
## 7448          0.49458751          0.41083193 0.48928710          0.50000000  1
## 7449          0.32296963          0.43064460 0.44033621          0.44444444  0
## 7450          0.63426105          0.61878931 0.49691571          0.61111111  0
## 7451          0.49394440          0.54554142 0.48420256          0.50000000  1
## 7452          0.54677504          0.57791516 0.50587174          0.66666667  0
## 7453          0.43072014          0.39430260 0.37019002          0.55555556  1
## 7454          0.55454293          0.53676495 0.56814130          0.55555556  0
## 7455          0.49555005          0.46462830 0.46339995          0.61111111  0
## 7456          0.64653461          0.64142591 0.63571620          0.72222222  1
## 7457          0.40939130          0.46393959 0.53383529          0.77777778  0
## 7458          0.36738502          0.31280304 0.38419573          0.38888889  0
## 7459          0.65280302          0.62319569 0.67964552          0.72222222  1
## 7460          0.45785230          0.52073308 0.58182091          0.77777778  1
## 7461          0.68139903          0.70729213 0.58914469          0.61111111  1
## 7462          0.51828919          0.52776379 0.45395788          0.50000000  0
## 7463          0.47910781          0.42110986 0.38574000          0.44444444  0
## 7464          0.48941757          0.46596319 0.51499010          0.50000000  1
## 7465          0.57242682          0.55267902 0.48951454          0.55555556  1
## 7466          0.58552032          0.55477724 0.45815386          0.22222222  0
## 7467          0.49584086          0.50493066 0.51330068          0.61111111  0
## 7468          0.47297885          0.45741805 0.52044951          0.50000000  0
## 7469          0.57826280          0.52731839 0.56764390          0.66666667  1
## 7470          0.55332637          0.62533421 0.55344739          0.61111111  1
## 7471          0.50694152          0.48346828 0.56186963          0.44444444  0
## 7472          0.59974956          0.48764923 0.39237708          0.27777778  0
```

664

```
## 7473          0.36825749          0.26017453 0.43971145          0.61111111   0
## 7474          0.57151462          0.50672536 0.58232759          0.55555556   1
## 7475          0.42408975          0.34408811 0.37759316          0.66666667   1
## 7476          0.52617798          0.65363811 0.57145710          0.55555556   1
## 7477          0.66393073          0.61188699 0.55179538          0.61111111   0
## 7478          0.53341620          0.54766086 0.49470474          0.44444444   1
## 7479          0.60655865          0.56718297 0.52330247          0.50000000   1
## 7480          0.57138732          0.54596700 0.58306548          0.55555556   1
## 7481          0.55478565          0.65527020 0.52169562          0.27777778   1
## 7482          0.30083550          0.48601345 0.59077182          0.55555556   1
## 7483          0.30623591          0.37878931 0.34987654          0.38888889   0
## 7484          0.52842111          0.53944276 0.50630849          0.50000000   0
## 7485          0.43214140          0.55137765 0.53525186          0.72222222   1
## 7486          0.53311390          0.60648813 0.44618330          0.38888889   1
## 7487          0.47747475          0.37109185 0.28252289          0.22222222   0
## 7488          0.45255142          0.47594481 0.45904258          0.33333333   0
## 7489          0.65188567          0.60539359 0.52884020          0.50000000   1
## 7490          0.58519425          0.56983668 0.59003236          0.55555556   0
## 7491          0.38532082          0.46628301 0.55442234          0.55555556   1
## 7492          0.58043413          0.58956465 0.56429953          0.61111111   1
## 7493          0.50686289          0.42964329 0.51808044          0.50000000   1
## 7494          0.48193032          0.56221543 0.45085152          0.61111111   0
## 7495          0.50637085          0.58007103 0.49955530          0.44444444   1
## 7496          0.45446332          0.51574836 0.61586426          0.72222222   1
## 7497          0.42443050          0.41937280 0.52387524          0.55555556   1
## 7498          0.57872452          0.55390947 0.58295586          0.50000000   0
## 7499          0.53201963          0.48053385 0.34316640          0.33333333   0
## 7500          0.47971553          0.46210223 0.51408411          0.44444444   1
## 7501          0.47669136          0.51388363 0.53890771          0.50000000   1
## 7502          0.47996892          0.47089129 0.42780987          0.55555556   1
## 7503          0.49104169          0.48583447 0.56347795          0.66666667   0
## 7504          0.52843621          0.44810804 0.47816122          0.33333333   1
## 7505          0.70978193          0.67482211 0.65801323          0.72222222   1
## 7506          0.45242133          0.36196565 0.50350134          0.50000000   0
## 7507          0.51073629          0.53475994 0.59241886          0.61111111   0
## 7508          0.57828181          0.64071508 0.55350473          0.38888889   0
## 7509          0.40059660          0.44560139 0.38196319          0.38888889   0
## 7510          0.53405780          0.47445254 0.49328188          0.61111111   0
## 7511          0.53436492          0.44252775 0.37800235          0.33333333   0
## 7512          0.69037548          0.49139499 0.32067699          0.38888889   0
## 7513          0.42900121          0.37304212 0.42275921          0.38888889   1
## 7514          0.43694343          0.44785849 0.55085387          0.55555556   1
## 7515          0.48536285          0.44682729 0.49145742          0.66666667   0
## 7516          0.53151441          0.45191297 0.45470193          0.44444444   1
## 7517          0.60831406          0.65572336 0.67842849          0.61111111   1
## 7518          0.55624877          0.56798210 0.52673993          0.66666667   1
## 7519          0.36956459          0.38268947 0.39190722          0.38888889   0
## 7520          0.49998334          0.37380953 0.36939150          0.33333333   0
## 7521          0.44556604          0.34906370 0.30975833          0.33333333   0
## 7522          0.44447875          0.37404627 0.41062766          0.33333333   0
## 7523          0.55907804          0.52513042 0.50603098          0.55555556   1
## 7524          0.57071283          0.59836249 0.55480848          0.44444444   1
## 7525          0.47674949          0.49421340 0.57640315          0.61111111   0
## 7526          0.53772616          0.56670221 0.47757593          0.55555556   0
## 7527          0.65048646          0.58046344 0.58331787          0.55555556   0
## 7528          0.47320780          0.58676640 0.53321608          0.38888889   0
## 7529          0.56860735          0.57874718 0.56640506          0.38888889   1
## 7530          0.62801453          0.53923592 0.37038286          0.38888889   0
```

```
## 7531          0.58251701          0.65179797 0.64500509          0.61111111   1
## 7532          0.44784962          0.51212909 0.41725160          0.50000000   1
## 7533          0.43843927          0.41108551 0.41558992          0.50000000   0
## 7534          0.53194397          0.56628178 0.52053093          0.44444444   0
## 7535          0.52676579          0.54088104 0.51897292          0.50000000   0
## 7536          0.76754547          0.84397087 0.64122923          0.55555556   0
## 7537          0.36579447          0.23343495 0.37051576          0.38888889   0
## 7538          0.55361456          0.54951262 0.44234502          0.22222222   1
## 7539          0.58466281          0.50189103 0.59240832          0.55555556   1
## 7540          0.46431637          0.45810105 0.42194398          0.50000000   0
## 7541          0.37043458          0.40551041 0.42762525          0.44444444   0
## 7542          0.64432250          0.67526811 0.54781197          0.88888889   1
## 7543          0.47562154          0.44003594 0.40847010          0.44444444   0
## 7544          0.38152129          0.26583557 0.38513776          0.33333333   0
## 7545          0.47912760          0.43104139 0.55152627          0.50000000   1
## 7546          0.45469282          0.51967083 0.52856924          0.44444444   1
## 7547          0.53850275          0.56127929 0.58352518          0.44444444   0
## 7548          0.38178706          0.50335185 0.55681170          0.72222222   1
## 7549          0.49395901          0.55922455 0.52859160          0.50000000   0
## 7550          0.44896764          0.59070952 0.60811113          0.72222222   0
## 7551          0.47488644          0.39899402 0.36067521          0.27777778   1
## 7552          0.61048942          0.63743693 0.50641454          0.55555556   1
## 7553          0.60479027          0.66852675 0.61592349          0.72222222   1
## 7554          0.45227820          0.35219490 0.45981013          0.55555556   1
## 7555          0.36340573          0.33809286 0.41133255          0.50000000   1
## 7556          0.57602429          0.61195899 0.51614078          0.72222222   0
## 7557          0.72483328          0.69727048 0.65207858          0.66666667   0
## 7558          0.52855154          0.40926465 0.39409182          0.44444444   1
## 7559          0.46099214          0.51338857 0.53778900          0.66666667   0
## 7560          0.47721058          0.34044587 0.43039835          0.27777778   1
## 7561          0.52270187          0.53115424 0.50021760          0.55555556   1
## 7562          0.44410637          0.47194062 0.44586279          0.27777778   0
## 7563          0.56755202          0.71901658 0.58003731          0.44444444   1
## 7564          0.59409249          0.65983658 0.51443021          0.11111111   0
## 7565          0.42250146          0.47312940 0.47297100          0.38888889   1
## 7566          0.61859570          0.60305558 0.49203151          0.38888889   0
## 7567          0.39528072          0.36719330 0.30065566          0.33333333   0
## 7568          0.51753385          0.49319571 0.53022059          0.50000000   1
## 7569          0.54521019          0.66934961 0.61532144          0.55555556   1
## 7570          0.43435823          0.24506039 0.13153034          0.11111111   0
## 7571          0.39394723          0.23566949 0.28791022          0.22222222   0
## 7572          0.30601620          0.30209552 0.33711980          0.33333333   1
## 7573          0.67982775          0.64064463 0.60067926          0.55555556   0
## 7574          0.59814191          0.62088869 0.59340380          0.66666667   1
## 7575          0.41677688          0.49253496 0.40136019          0.50000000   1
## 7576          0.59064593          0.58521658 0.54460705          0.55555556   1
## 7577          0.45913755          0.33648077 0.27004615          0.22222222   1
## 7578          0.40733235          0.35511954 0.33346126          0.33333333   0
## 7579          0.40324891          0.30197428 0.47402851          0.66666667   0
## 7580          0.39854163          0.30378951 0.46175768          0.72222222   0
## 7581          0.35727544          0.34831090 0.31508652          0.38888889   0
## 7582          0.61523574          0.62558425 0.72816277          0.66666667   1
## 7583          0.58738854          0.61804004 0.51558947          0.50000000   1
## 7584          0.46269151          0.46284681 0.30846091          0.44444444   0
## 7585          0.44683791          0.46441751 0.42763671          0.44444444   1
## 7586          0.38588145          0.36201655 0.30179124          0.50000000   1
## 7587          0.52127235          0.47413542 0.42373042          0.38888889   0
## 7588          0.51865996          0.58120413 0.40687024          0.27777778   1
```

```
## 7589       0.55908349        0.52761557 0.64070859        0.72222222   0
## 7590       0.44119237        0.45271082 0.36246047        0.38888889   0
## 7591       0.71899518        0.77655875 0.77343204        0.66666667   1
## 7592       0.43138846        0.55485957 0.41662693        0.55555556   1
## 7593       0.60252581        0.65956950 0.54353058        0.44444444   1
## 7594       0.50385604        0.53358458 0.49061622        0.50000000   1
## 7595       0.68793068        0.69169132 0.60764946        0.38888889   1
## 7596       0.48260923        0.45322801 0.62819886        0.61111111   1
## 7597       0.50154524        0.46910167 0.51808739        0.61111111   1
## 7598       0.48518254        0.56072951 0.37295306        0.61111111   1
## 7599       0.54138365        0.70637686 0.62455854        0.66666667   1
## 7600       0.47856165        0.46239932 0.51107304        0.44444444   1
## 7601       0.35369287        0.29640991 0.43325182        0.33333333   0
## 7602       0.56208544        0.45460153 0.42798450        0.61111111   1
## 7603       0.48469832        0.44233485 0.46176097        0.38888889   0
## 7604       0.40914475        0.35914716 0.41563610        0.27777778   1
## 7605       0.66444152        0.60931920 0.44803670        0.55555556   1
## 7606       0.64567280        0.56991805 0.53388083        0.38888889   1
## 7607       0.58269957        0.52036370 0.51388671        0.44444444   1
## 7608       0.52166628        0.53361308 0.53794846        0.61111111   0
## 7609       0.36772840        0.46540320 0.54514821        0.83333333   1
## 7610       0.55175961        0.44317073 0.51575698        0.50000000   1
## 7611       0.47114885        0.56008848 0.57910548        0.50000000   0
## 7612       0.61464700        0.54442020 0.49364867        0.61111111   0
## 7613       0.51178238        0.66050733 0.47797504        0.55555556   1
## 7614       0.50004830        0.50876204 0.43155423        0.38888889   0
## 7615       0.49737242        0.54563721 0.51675654        0.72222222   1
## 7616       0.33754685        0.40595395 0.40146067        0.55555556   0
## 7617       0.40484692        0.35087119 0.46601985        0.61111111   0
## 7618       0.55283510        0.52029633 0.49138660        0.38888889   0
## 7619       0.50046888        0.46241498 0.52970739        0.55555556   1
## 7620       0.36081059        0.32726171 0.32487665        0.44444444   0
## 7621       0.52197672        0.37426631 0.46350396        0.11111111   1
## 7622       0.59500249        0.64183810 0.49617585        0.66666667   1
## 7623       0.61364617        0.61620613 0.47555141        0.61111111   1
## 7624       0.45856577        0.39250411 0.27901698        0.44444444   0
## 7625       0.45073871        0.51577323 0.47217162        0.33333333   0
## 7626       0.55106770        0.58197406 0.53219750        0.55555556   1
## 7627       0.59878392        0.68411404 0.62104440        0.66666667   1
## 7628       0.59224409        0.63823429 0.62420004        0.66666667   1
## 7629       0.35694708        0.35589337 0.41474738        0.55555556   0
## 7630       0.64300363        0.57103481 0.51730524        0.61111111   1
## 7631       0.67317371        0.64364936 0.76155377        0.77777778   1
## 7632       0.40062173        0.32099114 0.35273527        0.38888889   0
## 7633       0.36738830        0.45682490 0.41822216        0.55555556   1
## 7634       0.56213412        0.50588599 0.48299230        0.61111111   0
## 7635       0.55963311        0.56060668 0.59307847        0.61111111   1
## 7636       0.61658897        0.72270185 0.75813697        0.83333333   1
## 7637       0.48403656        0.50673553 0.48144716        0.50000000   0
## 7638       0.44106141        0.39019264 0.31087960        0.55555556   1
## 7639       0.50942710        0.44682101 0.35936706        0.38888889   0
## 7640       0.43406118        0.35423802 0.36429943        0.50000000   0
## 7641       0.43180034        0.36604864 0.27053729        0.38888889   0
## 7642       0.59722560        0.61372690 0.57049185        0.50000000   1
## 7643       0.39124083        0.41467376 0.32895291        0.27777778   0
## 7644       0.54555021        0.56712124 0.35413628        0.50000000   1
## 7645       0.60200224        0.65150194 0.64621742        0.55555556   1
## 7646       0.45392844        0.44793766 0.51402412        0.61111111   1
```

```
## 7647           0.49111680           0.55469861 0.43414418           0.38888889  1
## 7648           0.47066504           0.42451881 0.55274768           0.55555556  0
## 7649           0.54386094           0.52886517 0.58825902           0.61111111  1
## 7650           0.47215572           0.46512244 0.62277498           0.55555556  1
## 7651           0.29722450           0.49709104 0.63376614           0.44444444  1
## 7652           0.45447987           0.35285944 0.24844198           0.38888889  0
## 7653           0.53676252           0.51409960 0.48275058           0.44444444  0
## 7654           0.58109939           0.40848256 0.47406900           0.33333333  1
## 7655           0.57563397           0.60436991 0.47728356           0.61111111  0
## 7656           0.52514834           0.54051448 0.48917350           0.44444444  0
## 7657           0.58096212           0.47687067 0.39670154           0.50000000  0
## 7658           0.69621414           0.51885529 0.44260497           0.44444444  1
## 7659           0.52330123           0.54794182 0.52744364           0.55555556  1
## 7660           0.30236783           0.32538617 0.42538352           0.44444444  1
## 7661           0.54137909           0.40416892 0.41912669           0.33333333  1
## 7662           0.36042463           0.35373453 0.42833888           0.22222222  0
## 7663           0.47522258           0.52928252 0.50448964           0.44444444  0
## 7664           0.69188657           0.59422058 0.45614882           0.44444444  1
## 7665           0.51033795           0.42382954 0.40515969           0.55555556  0
## 7666           0.46251290           0.50292779 0.49489689           0.61111111  1
## 7667           0.37943511           0.34496464 0.36479578           0.33333333  1
## 7668           0.41083966           0.32845877 0.42931547           0.61111111  0
## 7669           0.31126953           0.43321268 0.43551170           0.44444444  0
## 7670           0.46276533           0.42729615 0.44091037           0.27777778  0
## 7671           0.44351417           0.48950601 0.54381648           0.44444444  1
## 7672           0.52660574           0.56303974 0.47513500           0.50000000  0
## 7673           0.51937878           0.58996417 0.64759425           0.66666667  1
## 7674           0.61336269           0.49380945 0.45408184           0.16666667  0
## 7675           0.74230460           0.67146568 0.66521458           0.55555556  1
## 7676           0.56378805           0.39428234 0.36829742           0.27777778  0
## 7677           0.65654762           0.59426098 0.43808985           0.66666667  0
## 7678           0.51628674           0.42838636 0.38904279           0.55555556  0
## 7679           0.46798506           0.39698313 0.49303014           0.38888889  0
## 7680           0.79573214           0.53622986 0.32892472           0.38888889  1
## 7681           0.46416156           0.40084041 0.46077884           0.72222222  0
## 7682           0.60661209           0.63965544 0.53853568           0.50000000  1
## 7683           0.52272800           0.44918433 0.45030417           0.27777778  0
## 7684           0.48637343           0.43322248 0.44953735           0.50000000  0
## 7685           0.57548368           0.55206985 0.57740378           0.44444444  1
## 7686           0.47503339           0.49914587 0.42264206           0.55555556  0
## 7687           0.50700459           0.55368393 0.44061222           0.38888889  1
## 7688           0.25144368           0.44255919 0.55334159           0.61111111  1
## 7689           0.53961933           0.57892534 0.52685084           0.50000000  1
## 7690           0.55855476           0.48731001 0.45804264           0.66666667  0
## 7691           0.53490468           0.50245982 0.45149897           0.50000000  0
## 7692           0.52473042           0.44590528 0.42091069           0.55555556  0
## 7693           0.41423342           0.38600477 0.46542161           0.55555556  1
## 7694           0.45961556           0.49401145 0.39948806           0.33333333  0
## 7695           0.54697364           0.52948233 0.55972318           0.61111111  0
## 7696           0.59278166           0.61676369 0.70408445           0.66666667  1
## 7697           0.62842982           0.44201270 0.47451794           0.33333333  0
## 7698           0.50828519           0.44382874 0.44377313           0.55555556  0
## 7699           0.32062617           0.31096533 0.37202773           0.33333333  1
## 7700           0.59423872           0.50127704 0.45671636           0.44444444  1
## 7701           0.46587401           0.41871736 0.47061764           0.55555556  1
## 7702           0.54082776           0.55870028 0.62039830           0.77777778  1
## 7703           0.54806807           0.40737900 0.59784896           0.77777778  0
## 7704           0.44231672           0.36679170 0.30784334           0.27777778  0
```

```
## 7705          0.49736974          0.47958600 0.45075539          0.50000000   0
## 7706          0.49613162          0.60822881 0.55618216          0.55555556   1
## 7707          0.42268825          0.46037361 0.54321088          0.44444444   1
## 7708          0.43805050          0.52645798 0.64934309          0.61111111   0
## 7709          0.41309572          0.48877785 0.42323257          0.33333333   0
## 7710          0.65072699          0.69595810 0.65471015          0.66666667   1
## 7711          0.47961288          0.48884675 0.31299020          0.27777778   0
## 7712          0.45633100          0.50029406 0.49327578          0.55555556   0
## 7713          0.41980970          0.46309543 0.44981030          0.50000000   1
## 7714          0.47410194          0.45972879 0.50933210          0.55555556   0
## 7715          0.48385669          0.46347473 0.51601982          0.50000000   1
## 7716          0.44039293          0.50457115 0.45470193          0.27777778   0
## 7717          0.24119722          0.36102235 0.53934457          0.61111111   1
## 7718          0.50307839          0.40380588 0.35715424          0.50000000   1
## 7719          0.60612846          0.55640918 0.57345495          0.50000000   1
## 7720          0.63368533          0.71188774 0.51853734          0.66666667   1
## 7721          0.67376172          0.66614712 0.60742685          0.50000000   1
## 7722          0.42288740          0.40182577 0.37458227          0.50000000   0
## 7723          0.50159809          0.54565777 0.66656877          0.50000000   1
## 7724          0.58135696          0.51469361 0.51177224          0.50000000   1
## 7725          0.66261335          0.75868063 0.72408670          0.72222222   1
## 7726          0.30297572          0.32048426 0.32279776          0.44444444   0
## 7727          0.62103258          0.50410076 0.54947524          0.72222222   1
## 7728          0.37603378          0.31036366 0.36978105          0.27777778   0
## 7729          0.59570460          0.63681975 0.49445832          0.66666667   0
## 7730          0.61179774          0.81684100 0.69966417          0.83333333   0
## 7731          0.58142191          0.50427327 0.42958530          0.50000000   1
## 7732          0.50790349          0.47374778 0.55171037          0.50000000   1
## 7733          0.62018463          0.62316916 0.57413072          0.50000000   1
## 7734          0.52811324          0.62124272 0.58452305          0.66666667   0
## 7735          0.51506124          0.55201500 0.51669467          0.33333333   0
## 7736          0.33404735          0.22248273 0.26597159          0.38888889   0
## 7737          0.43171742          0.44979993 0.47161633          0.61111111   1
## 7738          0.60927426          0.52686017 0.48638436          0.44444444   0
## 7739          0.78574090          0.76274726 0.62247742          0.44444444   1
## 7740          0.42153247          0.36812702 0.38521088          0.38888889   0
## 7741          0.51111185          0.58421668 0.61773357          0.77777778   0
## 7742          0.45591532          0.46392359 0.46662624          0.38888889   0
## 7743          0.30519184          0.12023384 0.31011000          0.27777778   0
## 7744          0.56817458          0.70277933 0.79406634          0.88888889   1
## 7745          0.54311279          0.46490185 0.55744789          0.77777778   0
## 7746          0.52290569          0.53171983 0.54791209          0.50000000   0
## 7747          0.49648092          0.49002058 0.62866501          0.61111111   1
## 7748          0.42880061          0.37555333 0.39345056          0.27777778   1
## 7749          0.42763792          0.30203089 0.21391786          0.22222222   0
## 7750          0.34359665          0.38467231 0.21862109          0.38888889   0
## 7751          0.61274350          0.60370479 0.55991515          0.55555556   0
## 7752          0.48559074          0.49938272 0.43113841          0.50000000   1
## 7753          0.55705751          0.47858944 0.60378162          0.83333333   1
## 7754          0.39416462          0.38672833 0.36042312          0.38888889   0
## 7755          0.44255622          0.49517601 0.43608844          0.33333333   0
## 7756          0.62258280          0.66879738 0.60695851          0.55555556   0
## 7757          0.43600631          0.41973973 0.26942365          0.33333333   0
## 7758          0.57246318          0.62100106 0.59487692          0.55555556   1
## 7759          0.56844365          0.46175020 0.44095497          0.61111111   0
## 7760          0.54750336          0.63382920 0.52976694          0.55555556   1
## 7761          0.52364875          0.36105602 0.57728597          0.33333333   1
## 7762          0.47719063          0.38909112 0.46328877          0.33333333   1
```

```
## 7763        0.61984633        0.49509014 0.44855572        0.44444444  0
## 7764        0.45009897        0.31405342 0.28106251        0.38888889  0
## 7765        0.40108655        0.25063354 0.30688891        0.38888889  0
## 7766        0.49359132        0.55719405 0.56104781        0.72222222  1
## 7767        0.31721276        0.14747649 0.35570715        0.22222222  0
## 7768        0.41496678        0.30066321 0.38380468        0.33333333  0
## 7769        0.59660223        0.65685631 0.61667292        0.50000000  1
## 7770        0.45021628        0.43737258 0.49923312        0.44444444  1
## 7771        0.60495963        0.65460086 0.67487627        0.50000000  1
## 7772        0.28353744        0.20740867 0.25681119        0.55555556  0
## 7773        0.61807539        0.67864495 0.60216666        0.50000000  0
## 7774        0.50647767        0.62423091 0.66146001        0.77777778  1
## 7775        0.65119352        0.68062090 0.47280336        0.44444444  1
## 7776        0.63683205        0.59330864 0.60827344        0.61111111  1
## 7777        0.51098365        0.45185670 0.49883377        0.44444444  0
## 7778        0.29807471        0.23860314 0.14288562        0.11111111  0
## 7779        0.26519174        0.22675230 0.19939958        0.33333333  0
## 7780        0.58516780        0.49319651 0.39517346        0.33333333  0
## 7781        0.44325446        0.44037510 0.47346819        0.55555556  1
## 7782        0.55589220        0.50474817 0.34022798        0.38888889  0
## 7783        0.59423936        0.58289645 0.62437381        0.61111111  1
## 7784        0.45966777        0.46395077 0.52674332        0.50000000  0
## 7785        0.60937685        0.54156192 0.56547295        0.55555556  1
## 7786        0.61505712        0.63865122 0.58981627        0.61111111  1
## 7787        0.52101743        0.60425073 0.57963281        0.44444444  1
## 7788        0.51585736        0.62876393 0.53839684        0.55555556  1
## 7789        0.53306354        0.43906928 0.36119714        0.50000000  0
## 7790        0.61631339        0.70317087 0.70328602        0.72222222  1
## 7791        0.71208688        0.79260104 0.74826808        0.61111111  1
## 7792        0.43673182        0.37447281 0.45262959        0.38888889  1
## 7793        0.41103281        0.31712978 0.26286685        0.27777778  0
## 7794        0.34061604        0.29688539 0.27515558        0.50000000  0
## 7795        0.47287611        0.44105997 0.45622795        0.44444444  0
## 7796        0.59552670        0.57885963 0.68181479        0.61111111  1
## 7797        0.46416612        0.57065922 0.50651146        0.61111111  0
## 7798        0.60180640        0.62438089 0.47363146        0.61111111  0
## 7799        0.47124702        0.48635261 0.39197830        0.38888889  0
## 7800        0.69039048        0.69737669 0.64234586        0.44444444  0
## 7801        0.54655621        0.59041751 0.65514566        0.72222222  1
## 7802        0.58281231        0.61674430 0.63522796        0.50000000  1
## 7803        0.53354156        0.47871838 0.41462039        0.38888889  1
## 7804        0.47037650        0.50122048 0.41669291        0.44444444  1
## 7805        0.64321558        0.65106801 0.67216109        0.61111111  1
## 7806        0.49706499        0.56808593 0.59858638        0.55555556  1
## 7807        0.58699229        0.58961861 0.61609892        0.66666667  1
## 7808        0.48712092        0.46010697 0.47429545        0.38888889  0
## 7809        0.59021708        0.54960226 0.55225229        0.77777778  0
## 7810        0.58608904        0.48020684 0.59640178        0.72222222  1
## 7811        0.46891649        0.50213242 0.34738577        0.50000000  1
## 7812        0.45994354        0.54098867 0.54385907        0.66666667  0
## 7813        0.42497826        0.46878930 0.47911467        0.38888889  1
## 7814        0.44244168        0.35030821 0.38382159        0.50000000  1
## 7815        0.43174396        0.45162776 0.53042213        0.50000000  0
## 7816        0.50467446        0.59324480 0.45044625        0.55555556  1
## 7817        0.43465473        0.41989368 0.43279386        0.38888889  1
## 7818        0.40557236        0.44740792 0.43801920        0.33333333  0
## 7819        0.47069503        0.45222798 0.37242139        0.38888889  1
## 7820        0.54222621        0.59671262 0.44755834        0.61111111  0
```

```
## 7821           0.56396959          0.52491944 0.44418421          0.33333333   0
## 7822           0.52085328          0.59165264 0.54562709          0.61111111   0
## 7823           0.18596665          0.37795451 0.49321611          0.50000000   0
## 7824           0.49328490          0.54247095 0.50731906          0.33333333   0
## 7825           0.66837652          0.63385294 0.66883080          0.77777778   1
## 7826           0.36022577          0.54054888 0.47549135          0.55555556   0
## 7827           0.36523083          0.34916374 0.39670805          0.55555556   1
## 7828           0.56504157          0.56052893 0.58044075          0.66666667   1
## 7829           0.54963007          0.59176719 0.33969809          0.44444444   1
## 7830           0.67119529          0.58185726 0.47462115          0.61111111   1
## 7831           0.54119654          0.65270622 0.63085797          0.72222222   1
## 7832           0.44351745          0.44652253 0.56386120          0.55555556   1
## 7833           0.76599523          0.56740949 0.26836264          0.44444444   0
## 7834           0.62237080          0.68203611 0.62321320          0.61111111   1
## 7835           0.67661428          0.75236248 0.67046627          0.61111111   1
## 7836           0.63168580          0.62501500 0.50076881          0.44444444   0
## 7837           0.43766564          0.43181118 0.42107103          0.55555556   0
## 7838           0.67618617          0.52809423 0.53921691          0.66666667   1
## 7839           0.56690181          0.59126027 0.57116338          0.66666667   1
## 7840           0.59037815          0.64035351 0.46764372          0.61111111   0
## 7841           0.57048823          0.58415415 0.56964517          0.61111111   0
## 7842           0.63142651          0.61937864 0.56860814          0.55555556   1
## 7843           0.40783271          0.50371302 0.40825201          0.72222222   1
## 7844           0.37259515          0.40576071 0.53799982          0.33333333   1
## 7845           0.55368548          0.63384690 0.52268060          0.44444444   1
## 7846           0.35822988          0.34020093 0.43035013          0.38888889   1
## 7847           0.65875087          0.61958496 0.53778966          0.61111111   0
## 7848           0.54245836          0.56995385 0.47964775          0.55555556   0
## 7849           0.44405066          0.41629384 0.34075992          0.50000000   0
## 7850           0.44152369          0.43392948 0.46294837          0.55555556   0
## 7851           0.58043938          0.62325894 0.51952857          0.55555556   1
## 7852           0.51176601          0.53673928 0.41249287          0.33333333   0
## 7853           0.42071182          0.28594172 0.36280724          0.38888889   1
## 7854           0.58177885          0.50380127 0.42733731          0.50000000   0
## 7855           0.37666877          0.38227352 0.48508647          0.55555556   1
## 7856           0.39780397          0.43621495 0.49439399          0.66666667   0
## 7857           0.41158364          0.49858433 0.44480476          0.44444444   1
## 7858           0.46172921          0.27570855 0.46936082          0.44444444   1
## 7859           0.36695985          0.39279406 0.43887034          0.50000000   1
## 7860           0.51827574          0.47086114 0.42597473          0.38888889   0
## 7861           0.58574441          0.57545462 0.44720575          0.44444444   1
## 7862           0.49110574          0.47538857 0.49656900          0.38888889   0
## 7863           0.49175427          0.52321887 0.63182514          0.50000000   1
## 7864           0.68253798          0.62457904 0.56918407          0.66666667   0
## 7865           0.45669488          0.41679105 0.46409064          0.50000000   1
## 7866           0.51077599          0.60974332 0.48572682          0.55555556   0
## 7867           0.62608927          0.64324764 0.67199813          0.77777778   1
## 7868           0.65132465          0.52424391 0.60328812          0.72222222   1
## 7869           0.25890695          0.37876938 0.52498536          0.50000000   1
## 7870           0.49143955          0.45286685 0.48934000          0.61111111   0
## 7871           0.42630640          0.41404353 0.43560474          0.55555556   0
## 7872           0.42714229          0.27861687 0.34411670          0.44444444   0
## 7873           0.66317727          0.83349664 0.76816514          0.61111111   1
## 7874           0.60809591          0.50025799 0.47323309          0.33333333   0
## 7875           0.49655329          0.42304425 0.47101678          0.55555556   1
## 7876           0.43204112          0.48317044 0.56199492          0.44444444   1
## 7877           0.59258796          0.64084768 0.63230948          0.55555556   1
## 7878           0.57834068          0.56856185 0.46917445          0.33333333   1
```

```
## 7879          0.57759847          0.48993822 0.52651993          0.55555556   1
## 7880          0.77661594          0.72377895 0.61516519          0.66666667   1
## 7881          0.52536896          0.63510207 0.55055370          0.55555556   1
## 7882          0.75123109          0.81055725 0.63185183          0.50000000   1
## 7883          0.46705764          0.32632639 0.31889657          0.55555556   1
## 7884          0.53502683          0.51343771 0.57413801          0.61111111   1
## 7885          0.75119980          0.65381852 0.46330734          0.55555556   1
## 7886          0.59923226          0.64221959 0.64198117          0.72222222   1
## 7887          0.60916570          0.54258121 0.56819055          0.55555556   1
## 7888          0.60515909          0.66567125 0.65414329          0.61111111   1
## 7889          0.35398208          0.29488097 0.29813717          0.55555556   1
## 7890          0.45571923          0.42022215 0.59225079          0.61111111   1
## 7891          0.41051041          0.46333654 0.50868024          0.44444444   1
## 7892          0.52166300          0.62628067 0.53765745          0.55555556   1
## 7893          0.50597915          0.42843269 0.40174603          0.44444444   0
## 7894          0.51654402          0.56205981 0.51467696          0.50000000   1
## 7895          0.40096159          0.41431654 0.38770853          0.50000000   0
## 7896          0.59520872          0.66771136 0.53999355          0.61111111   1
## 7897          0.53747511          0.60768109 0.52727754          0.44444444   0
## 7898          0.40748393          0.37108757 0.49812037          0.50000000   0
## 7899          0.66340552          0.57004600 0.56790476          0.55555556   0
## 7900          0.44633890          0.42494743 0.52336642          0.50000000   0
## 7901          0.52470719          0.60888039 0.51083608          0.50000000   0
## 7902          0.53720896          0.66570429 0.76480294          0.83333333   1
## 7903          0.40861239          0.39037998 0.35112438          0.33333333   0
## 7904          0.53271830          0.59229084 0.58162910          0.55555556   1
## 7905          0.50358218          0.49434598 0.47565914          0.50000000   1
## 7906          0.47449360          0.41087827 0.50661693          0.55555556   0
## 7907          0.50272597          0.51589904 0.39628142          0.44444444   0
## 7908          0.67240507          0.59363683 0.57400812          0.66666667   1
## 7909          0.42629278          0.43727834 0.37433038          0.50000000   0
## 7910          0.58789004          0.54163699 0.69741609          0.50000000   1
## 7911          0.52000454          0.52341751 0.45500885          0.61111111   0
## 7912          0.44601320          0.40073554 0.39632265          0.44444444   1
## 7913          0.32058974          0.28524795 0.36218782          0.27777778   0
## 7914          0.45248934          0.34880696 0.43444557          0.44444444   0
## 7915          0.50599763          0.52009083 0.52012170          0.61111111   0
## 7916          0.47421233          0.41477604 0.42329973          0.44444444   0
## 7917          0.44550601          0.42491952 0.34058326          0.50000000   0
## 7918          0.41399498          0.30728039 0.38174969          0.38888889   1
## 7919          0.47033307          0.37801900 0.45478253          0.55555556   1
## 7920          0.46075267          0.50016163 0.41357258          0.27777778   1
## 7921          0.46338739          0.52613361 0.42311595          0.50000000   0
## 7922          0.57795887          0.53757576 0.56243008          0.50000000   1
## 7923          0.37939412          0.21926873 0.31355417          0.33333333   0
## 7924          0.22088163          0.14589054 0.29377642          0.16666667   0
## 7925          0.60493211          0.61222768 0.52471188          0.50000000   0
## 7926          0.55028272          0.53802770 0.34385233          0.38888889   1
## 7927          0.56150928          0.65760846 0.53474350          0.61111111   0
## 7928          0.50531867          0.49708357 0.55203050          0.61111111   0
## 7929          0.41647542          0.36171857 0.42946629          0.61111111   0
## 7930          0.57988777          0.65836950 0.59256919          0.61111111   1
## 7931          0.61602014          0.69647892 0.73926209          0.83333333   1
## 7932          0.62748361          0.59772516 0.50480505          0.50000000   1
## 7933          0.57950009          0.61036675 0.63963704          0.66666667   1
## 7934          0.67283303          0.68616279 0.66872902          0.66666667   1
## 7935          0.45734919          0.53616557 0.42706948          0.44444444   1
## 7936          0.58436845          0.54977723 0.53952031          0.44444444   0
```

```
## 7937          0.67470889      0.67757258 0.71139888     0.55555556   1
## 7938          0.34613711      0.38460804 0.51432166     0.38888889   1
## 7939          0.48938941      0.60078563 0.59213250     0.66666667   1
## 7940          0.53466976      0.34974072 0.30864025     0.50000000   0
## 7941          0.35581295      0.21619125 0.37834684     0.38888889   0
## 7942          0.48184773      0.44775646 0.48993670     0.55555556   1
## 7943          0.43735267      0.27689614 0.37521929     0.22222222   0
## 7944          0.44153773      0.39567047 0.43923431     0.38888889   1
## 7945          0.49655107      0.51189860 0.37488498     0.55555556   0
## 7946          0.46408195      0.40549754 0.31145906     0.16666667   0
## 7947          0.40208554      0.37029384 0.37149265     0.44444444   1
## 7948          0.46329644      0.46627154 0.31483459     0.44444444   0
## 7949          0.64880306      0.61237390 0.62221570     0.55555556   1
## 7950          0.54214988      0.49281897 0.55070400     0.44444444   0
## 7951          0.55469138      0.63043334 0.52172358     0.50000000   1
## 7952          0.43009463      0.42897018 0.51888726     0.44444444   1
## 7953          0.31044651      0.22221372 0.33883091     0.27777778   0
## 7954          0.30707272      0.18410945 0.24777578     0.22222222   0
## 7955          0.56551081      0.53331005 0.50315427     0.55555556   1
## 7956          0.57535316      0.55191251 0.60367824     0.55555556   1
## 7957          0.39955414      0.46632655 0.42954484     0.38888889   0
## 7958          0.56001314      0.53260783 0.59114782     0.61111111   1
## 7959          0.62085400      0.71919866 0.56684850     0.61111111   1
## 7960          0.48969806      0.46770780 0.47224001     0.44444444   1
## 7961          0.54710489      0.58431758 0.42265732     0.55555556   0
## 7962          0.61905606      0.63370680 0.54880343     0.44444444   0
## 7963          0.49592328      0.51033999 0.36994507     0.33333333   0
## 7964          0.49519052      0.56931390 0.52415230     0.55555556   1
## 7965          0.44226445      0.45333918 0.33270824     0.38888889   1
## 7966          0.41315118      0.34870999 0.28959571     0.27777778   0
## 7967          0.55293398      0.48274409 0.50671696     0.66666667   0
## 7968          0.39505361      0.53039554 0.57059369     0.72222222   0
## 7969          0.54719772      0.54136891 0.57179112     0.61111111   0
## 7970          0.57812760      0.56572180 0.43050646     0.44444444   0
## 7971          0.56413588      0.50396561 0.46613721     0.44444444   0
## 7972          0.59665230      0.65664531 0.59928291     0.66666667   0
## 7973          0.46992242      0.35898321 0.50045816     0.50000000   0
## 7974          0.47922369      0.52714115 0.45890283     0.55555556   0
## 7975          0.64973833      0.73501979 0.68926882     0.61111111   1
## 7976          0.49311177      0.48686022 0.49538068     0.55555556   0
## 7977          0.35626544      0.38035808 0.44425691     0.44444444   0
## 7978          0.42935798      0.37709046 0.40256155     0.50000000   0
## 7979          0.46353362      0.31400905 0.33921014     0.50000000   0
## 7980          0.70571174      0.73975173 0.70299037     0.72222222   1
## 7981          0.63901464      0.72945596 0.59950420     0.66666667   1
## 7982          0.43866766      0.45119632 0.45186226     0.38888889   1
## 7983          0.63580674      0.60951852 0.57124424     0.61111111   1
## 7984          0.67202457      0.70460550 0.69735429     0.66666667   1
## 7985          0.44633166      0.33816450 0.43937033     0.44444444   1
## 7986          0.46943000      0.51684815 0.33961166     0.44444444   0
## 7987          0.28766537      0.25000568 0.30363795     0.38888889   0
## 7988          0.50678206      0.61305996 0.70894396     0.72222222   1
## 7989          0.45500172      0.42146408 0.43415620     0.38888889   0
## 7990          0.49332702      0.47594319 0.51776418     0.38888889   1
## 7991          0.32666562      0.23569484 0.31957070     0.38888889   0
## 7992          0.53519747      0.54898143 0.58540572     0.66666667   1
## 7993          0.63097369      0.54320349 0.63158942     0.61111111   1
## 7994          0.57965239      0.38955121 0.36627095     0.50000000   0
```

## 7995	0.55722603	0.44140873	0.39274131	0.44444444	0
## 7996	0.43759865	0.56119596	0.42315166	0.33333333	0
## 7997	0.62216131	0.69229133	0.51501969	0.72222222	1
## 7998	0.71296030	0.76356137	0.60452308	0.61111111	0
## 7999	0.35783920	0.34800274	0.27279328	0.38888889	0
## 8000	0.68248888	0.77954646	0.70903126	0.72222222	1
## 8001	0.35275914	0.30358392	0.38851546	0.55555556	1
## 8002	0.44131310	0.42268504	0.35799281	0.50000000	1
## 8003	0.66349810	0.65114299	0.54126138	0.50000000	1
## 8004	0.57042367	0.53100341	0.50957218	0.61111111	0
## 8005	0.46430113	0.34419350	0.49481337	0.38888889	1
## 8006	0.32378276	0.27450877	0.22812411	0.33333333	0
## 8007	0.41324177	0.38197750	0.36634036	0.38888889	0
## 8008	0.61394655	0.61800783	0.56751581	0.50000000	1
## 8009	0.60795348	0.52793841	0.54219739	0.61111111	1
## 8010	0.49323052	0.39707572	0.35945919	0.38888889	0
## 8011	0.51922130	0.48047331	0.38604077	0.38888889	0
## 8012	0.49597748	0.46226216	0.41318232	0.44444444	1
## 8013	0.51794193	0.49039074	0.42409208	0.50000000	0
## 8014	0.47088363	0.55916388	0.61592897	0.44444444	0
## 8015	0.51754033	0.52619103	0.43995365	0.50000000	1
## 8016	0.53835477	0.40281924	0.48268769	0.44444444	0
## 8017	0.48899858	0.56072416	0.44828248	0.50000000	0
## 8018	0.52516319	0.50856728	0.51341491	0.50000000	1
## 8019	0.45735548	0.49675118	0.44090556	0.33333333	1
## 8020	0.51330841	0.52957862	0.53952452	0.38888889	1
## 8021	0.45882379	0.40079710	0.39301864	0.33333333	1
## 8022	0.58569031	0.75063274	0.57458833	0.66666667	1
## 8023	0.43610271	0.32135114	0.45960798	0.66666667	0
## 8024	0.45318574	0.42829830	0.37253245	0.38888889	0
## 8025	0.54471781	0.43086998	0.43881446	0.33333333	0
## 8026	0.49146896	0.58766056	0.40129881	0.44444444	1
## 8027	0.51515036	0.43869256	0.41558184	0.50000000	1
## 8028	0.55305014	0.47757410	0.37920096	0.44444444	0
## 8029	0.31009086	0.42732448	0.37353648	0.44444444	0
## 8030	0.44388359	0.44926616	0.47308847	0.38888889	1
## 8031	0.37980425	0.39171144	0.52634719	0.61111111	0
## 8032	0.55404937	0.59058920	0.42913359	0.27777778	1
## 8033	0.44645066	0.44999875	0.49396460	0.55555556	1
## 8034	0.34634537	0.34352483	0.25621593	0.27777778	0
## 8035	0.31664796	0.44446769	0.61168871	0.66666667	1
## 8036	0.48907717	0.54879852	0.44860950	0.44444444	1
## 8037	0.48735449	0.61898430	0.68417256	0.55555556	1
## 8038	0.52871844	0.56931958	0.69635310	0.61111111	1
## 8039	0.66202369	0.58533630	0.67520811	0.66666667	1
## 8040	0.53348515	0.48391855	0.52833038	0.61111111	0
## 8041	0.43553692	0.43091459	0.41225378	0.50000000	0
## 8042	0.40458088	0.32072308	0.44549624	0.55555556	0
## 8043	0.53656510	0.54734573	0.43772168	0.44444444	0
## 8044	0.60417831	0.69885337	0.51046780	0.50000000	1
## 8045	0.50758510	0.51387370	0.54879421	0.72222222	1
## 8046	0.47768567	0.42435889	0.50267602	0.61111111	1
## 8047	0.42442064	0.46735662	0.45644983	0.44444444	1
## 8048	0.72880534	0.52697657	0.59322192	0.50000000	1
## 8049	0.51528277	0.63897172	0.55228514	0.61111111	0
## 8050	0.66250828	0.39105909	0.30433743	0.44444444	1
## 8051	0.47241965	0.61090648	0.66815555	0.61111111	0
## 8052	0.53744384	0.49025319	0.50134317	0.50000000	0

674

```
## 8053      0.33729871       0.40774111 0.52270194     0.61111111   0
## 8054      0.58345519       0.55995541 0.55139714     0.50000000   1
## 8055      0.48229069       0.39971574 0.35204384     0.44444444   0
## 8056      0.40503341       0.34088001 0.29176129     0.33333333   0
## 8057      0.41811039       0.40114977 0.36380913     0.44444444   0
## 8058      0.46027381       0.44108316 0.47967084     0.61111111   1
## 8059      0.54159324       0.61085098 0.46454263     0.50000000   1
## 8060      0.50927793       0.45346978 0.53825941     0.50000000   1
## 8061      0.68469884       0.48537026 0.35222760     0.44444444   0
## 8062      0.53417238       0.51100915 0.43007447     0.44444444   0
## 8063      0.48104375       0.48201836 0.55808578     0.44444444   1
## 8064      0.69741969       0.79355573 0.58980436     0.72222222   0
## 8065      0.58703558       0.56959444 0.54827938     0.55555556   1
## 8066      0.57270572       0.62106111 0.39600605     0.44444444   0
## 8067      0.54682769       0.51516696 0.61754869     0.38888889   1
## 8068      0.35375473       0.35072627 0.34146571     0.44444444   1
## 8069      0.51714264       0.40874918 0.42662472     0.50000000   1
## 8070      0.43878685       0.38501651 0.46448385     0.50000000   0
## 8071      0.48241466       0.39021927 0.35401592     0.44444444   0
## 8072      0.42145838       0.29487096 0.34760869     0.44444444   0
## 8073      0.54830053       0.53592715 0.63592227     0.50000000   0
## 8074      0.62954282       0.60048396 0.58662417     0.50000000   1
## 8075      0.56712411       0.55316837 0.54958574     0.55555556   1
## 8076      0.44406137       0.49879758 0.41791316     0.55555556   0
## 8077      0.66549661       0.57865875 0.49595574     0.50000000   0
## 8078      0.50932245       0.50282849 0.47810152     0.50000000   1
## 8079      0.49015128       0.44640323 0.49646036     0.66666667   1
## 8080      0.49113567       0.51261228 0.58636826     0.66666667   0
## 8081      0.20040727       0.21333116 0.45642181     0.55555556   0
## 8082      0.64455223       0.58286668 0.64872063     0.55555556   0
## 8083      0.57485085       0.74180658 0.63437205     0.66666667   1
## 8084      0.51291461       0.63873262 0.51011363     0.38888889   0
## 8085      0.41304442       0.45264358 0.29024833     0.44444444   1
## 8086      0.51933101       0.53558647 0.44825965     0.44444444   0
## 8087      0.39937338       0.36227510 0.42453803     0.55555556   1
## 8088      0.52483595       0.56138570 0.39734912     0.38888889   1
## 8089      0.58073246       0.53832207 0.44132190     0.33333333   0
## 8090      0.52444606       0.53275829 0.48706417     0.55555556   1
## 8091      0.55544182       0.70163798 0.54422352     0.38888889   0
## 8092      0.73608689       0.49660113 0.33917548     0.38888889   0
## 8093      0.49218224       0.45397081 0.48324498     0.50000000   0
## 8094      0.53577283       0.44483582 0.42911971     0.33333333   0
## 8095      0.56675822       0.48793786 0.42763671     0.38888889   1
## 8096      0.69908347       0.79376832 0.74808496     0.61111111   1
## 8097      0.39560559       0.35209296 0.42469154     0.61111111   0
## 8098      0.45775400       0.51132319 0.64864713     0.61111111   1
## 8099      0.56443187       0.57538634 0.61482733     0.61111111   0
## 8100      0.42169642       0.44695986 0.45150641     0.50000000   0
## 8101      0.50119522       0.46481333 0.48428585     0.55555556   0
## 8102      0.52953929       0.56695848 0.45775974     0.38888889   1
## 8103      0.52667562       0.46097009 0.40567646     0.38888889   0
## 8104      0.52958353       0.56989298 0.36867781     0.44444444   1
## 8105      0.49537200       0.50351758 0.45629846     0.27777778   1
## 8106      0.61221670       0.60827922 0.62537330     0.77777778   1
## 8107      0.61907508       0.58035339 0.62640178     0.50000000   1
## 8108      0.47645093       0.37375507 0.38668217     0.44444444   1
## 8109      0.36559380       0.26647504 0.46000717     0.66666667   0
## 8110      0.51739778       0.61471087 0.49414705     0.55555556   1
```

```
## 8111          0.46658545      0.38776789 0.26564259      0.38888889   0
## 8112          0.49635662      0.36861765 0.50194251      0.50000000   0
## 8113          0.51540762      0.57064609 0.49631114      0.50000000   0
## 8114          0.56228347      0.51964343 0.48566264      0.55555556   1
## 8115          0.49723580      0.43495295 0.46735568      0.55555556   0
## 8116          0.66016247      0.71317618 0.70126652      0.55555556   1
## 8117          0.42962640      0.28636707 0.37468900      0.38888889   1
## 8118          0.57119764      0.53323605 0.42920854      0.55555556   1
## 8119          0.53727341      0.56992922 0.53468782      0.50000000   1
## 8120          0.41760382      0.33623024 0.43308236      0.44444444   1
## 8121          0.55670812      0.56489393 0.47524816      0.50000000   0
## 8122          0.59153602      0.67888771 0.73599383      0.77777778   1
## 8123          0.50097276      0.45583951 0.61002429      0.61111111   1
## 8124          0.51104170      0.44608630 0.49694990      0.61111111   1
## 8125          0.43611169      0.25557574 0.38150648      0.44444444   0
## 8126          0.64339837      0.67324231 0.66215582      0.50000000   1
## 8127          0.56418308      0.50382542 0.46168875      0.44444444   0
## 8128          0.48707063      0.54833426 0.44022593      0.44444444   1
## 8129          0.57514399      0.55122246 0.55962251      0.50000000   1
## 8130          0.37585092      0.35029256 0.27539977      0.38888889   0
## 8131          0.43232952      0.52154893 0.42379781      0.55555556   0
## 8132          0.34595009      0.33617394 0.25927024      0.44444444   0
## 8133          0.52225917      0.52281961 0.54485810      0.50000000   1
## 8134          0.45645930      0.41541819 0.44875329      0.55555556   1
## 8135          0.46347759      0.43342887 0.38960139      0.44444444   1
## 8136          0.58811782      0.55468150 0.48404749      0.50000000   0
## 8137          0.54115144      0.55029080 0.52791313      0.38888889   1
## 8138          0.50645546      0.46701084 0.52075392      0.27777778   1
## 8139          0.50317608      0.52720196 0.44360552      0.50000000   0
## 8140          0.51317933      0.47461633 0.45138083      0.55555556   1
## 8141          0.64985315      0.53755812 0.48001832      0.61111111   1
## 8142          0.46943994      0.46848794 0.48327878      0.50000000   1
## 8143          0.44214286      0.30307783 0.46851685      0.38888889   1
## 8144          0.51546859      0.60986241 0.45223236      0.22222222   1
## 8145          0.63707716      0.60625848 0.52528835      0.50000000   1
## 8146          0.47757092      0.46982690 0.50244906      0.66666667   1
## 8147          0.50028436      0.52518885 0.62212345      0.72222222   1
## 8148          0.43855890      0.40028455 0.43857158      0.38888889   0
## 8149          0.46431736      0.47821738 0.42569918      0.55555556   0
## 8150          0.50066158      0.47014389 0.59915166      0.50000000   0
## 8151          0.68874447      0.73379939 0.70689436      0.61111111   1
## 8152          0.44500136      0.35207949 0.42721116      0.38888889   0
## 8153          0.50768360      0.55364795 0.52062689      0.61111111   1
## 8154          0.35364569      0.34448505 0.42783361      0.50000000   1
## 8155          0.50584990      0.60716546 0.69768378      0.55555556   1
## 8156          0.63609720      0.59393900 0.43260409      0.55555556   0
## 8157          0.33155323      0.25312937 0.37344517      0.44444444   0
## 8158          0.37712315      0.21892439 0.31427282      0.38888889   0
## 8159          0.38681062      0.40908827 0.32794408      0.27777778   0
## 8160          0.49457838      0.50515344 0.45969157      0.33333333   1
## 8161          0.60449459      0.68240935 0.50755000      0.61111111   1
## 8162          0.58623095      0.56345710 0.54864649      0.55555556   1
## 8163          0.49604430      0.49113626 0.55646411      0.50000000   1
## 8164          0.53078545      0.40086115 0.39348128      0.44444444   0
## 8165          0.33075165      0.29435134 0.28424545      0.44444444   0
## 8166          0.45627286      0.44702778 0.29228263      0.33333333   0
## 8167          0.58252092      0.61439482 0.52106867      0.50000000   1
## 8168          0.41632370      0.38316083 0.38900013      0.50000000   0
```

676

## 8169	0.58589498	0.58356064	0.45364713	0.55555556	0
## 8170	0.59035730	0.63411359	0.62459277	0.61111111	1
## 8171	0.41698066	0.40582794	0.34381934	0.50000000	0
## 8172	0.60990489	0.46379027	0.48617216	0.44444444	1
## 8173	0.46668806	0.43436038	0.61750125	0.72222222	1
## 8174	0.42368876	0.41403462	0.35598001	0.44444444	0
## 8175	0.49876688	0.55490884	0.44512125	0.38888889	0
## 8176	0.45372608	0.41710772	0.45198917	0.61111111	0
## 8177	0.50709072	0.42331825	0.36657097	0.27777778	0
## 8178	0.55046700	0.58752076	0.55136745	0.50000000	0
## 8179	0.44967333	0.42404122	0.51103282	0.61111111	1
## 8180	0.53341628	0.56151458	0.54335857	0.61111111	1
## 8181	0.41625753	0.47619070	0.57578658	0.61111111	1
## 8182	0.55859187	0.59520313	0.56679064	0.50000000	0
## 8183	0.46536522	0.38409142	0.44211984	0.50000000	0
## 8184	0.58856821	0.51853079	0.53873493	0.66666667	1
## 8185	0.41715547	0.42444337	0.43320825	0.50000000	0
## 8186	0.66755277	0.68941011	0.55457103	0.44444444	1
## 8187	0.64691415	0.68151135	0.48800806	0.50000000	1
## 8188	0.45403023	0.42916861	0.44317493	0.38888889	0
## 8189	0.53017919	0.56425465	0.60424320	0.66666667	1
## 8190	0.31200031	0.24536309	0.28105612	0.38888889	0
## 8191	0.66407417	0.70326385	0.59152088	0.50000000	0
## 8192	0.55252980	0.56461229	0.51791036	0.55555556	0
## 8193	0.62180384	0.61662415	0.48306153	0.50000000	0
## 8194	0.38209758	0.44571844	0.64014905	0.66666667	0
## 8195	0.49611650	0.47599256	0.40872701	0.55555556	0
## 8196	0.43210660	0.47115793	0.36366242	0.38888889	0
## 8197	0.76340618	0.81620295	0.73603795	0.61111111	1
## 8198	0.64587422	0.57290021	0.38260961	0.38888889	0
## 8199	0.57906614	0.59930778	0.51983508	0.61111111	0
## 8200	0.60515662	0.71546458	0.69652426	0.61111111	1
## 8201	0.54010776	0.48777248	0.45729109	0.44444444	1
## 8202	0.66890399	0.75379027	0.64166458	0.61111111	0
## 8203	0.45786515	0.56402914	0.50917177	0.55555556	1
## 8204	0.45793772	0.29831620	0.20419830	0.38888889	0
## 8205	0.52753175	0.50156100	0.45102711	0.44444444	0
## 8206	0.51873944	0.53304653	0.44592733	0.50000000	0
## 8207	0.51778788	0.59949601	0.57117599	0.66666667	1
## 8208	0.46934298	0.53693892	0.52442359	0.50000000	1
## 8209	0.48411010	0.42868160	0.59983903	0.50000000	0
## 8210	0.51587355	0.51999807	0.37611239	0.50000000	1
## 8211	0.64694512	0.72327998	0.58981311	0.61111111	1
## 8212	0.40567636	0.29125616	0.33291716	0.33333333	0
## 8213	0.52549109	0.45750598	0.50370946	0.33333333	0
## 8214	0.47479604	0.37595529	0.53025267	0.77777778	0
## 8215	0.53465024	0.49769834	0.63604004	0.55555556	1
## 8216	0.50983573	0.46269010	0.47929894	0.38888889	1
## 8217	0.66939015	0.54210849	0.63628394	0.55555556	1
## 8218	0.50518912	0.54734932	0.60816935	0.61111111	1
## 8219	0.55612331	0.40277064	0.56999893	0.61111111	0
## 8220	0.61480351	0.56047258	0.63432407	0.72222222	1
## 8221	0.65946794	0.79551147	0.77803883	0.61111111	1
## 8222	0.49299797	0.48782576	0.48034814	0.44444444	1
## 8223	0.42240878	0.34803562	0.40747705	0.27777778	0
## 8224	0.57397041	0.67164422	0.58707488	0.50000000	0
## 8225	0.42394719	0.38973980	0.35989051	0.38888889	1
## 8226	0.72495959	0.59237989	0.64271321	0.61111111	1

```
## 8227          0.57767912          0.51679058 0.59138024          0.72222222   0
## 8228          0.42584049          0.41719699 0.34593646          0.38888889   1
## 8229          0.52584866          0.48734804 0.46198629          0.50000000   0
## 8230          0.53837899          0.55820252 0.48751841          0.55555556   0
## 8231          0.47044212          0.41814173 0.47963252          0.38888889   0
## 8232          0.60794893          0.53766925 0.71202306          0.66666667   0
## 8233          0.59572306          0.50549503 0.61572221          0.50000000   1
## 8234          0.59087411          0.60793498 0.68574443          0.55555556   1
## 8235          0.44986997          0.44588384 0.54030246          0.44444444   0
## 8236          0.62494388          0.57804572 0.63101364          0.50000000   1
## 8237          0.54348993          0.49054248 0.56229549          0.61111111   1
## 8238          0.53189682          0.48076561 0.64287664          0.44444444   1
## 8239          0.50089055          0.52066983 0.54635177          0.50000000   1
## 8240          0.39095318          0.35802774 0.35556557          0.44444444   0
## 8241          0.63285109          0.64007766 0.56299554          0.61111111   0
## 8242          0.58246455          0.58623692 0.54491407          0.61111111   1
## 8243          0.48525031          0.46865233 0.51002289          0.66666667   0
## 8244          0.51758047          0.53955927 0.47334586          0.50000000   0
## 8245          0.44508233          0.33588584 0.40250286          0.38888889   1
## 8246          0.28368979          0.51906021 0.63597723          0.61111111   0
## 8247          0.36717555          0.41236190 0.53156660          0.55555556   0
## 8248          0.44956015          0.42385897 0.48740869          0.66666667   1
## 8249          0.58044713          0.64920819 0.51227054          0.55555556   1
## 8250          0.73480082          0.58924783 0.69849907          0.66666667   1
## 8251          0.84121629          0.73101106 0.57760349          0.55555556   1
## 8252          0.44176342          0.44522850 0.40624588          0.44444444   0
## 8253          0.60855102          0.62873115 0.49761549          0.55555556   1
## 8254          0.44268048          0.45540374 0.50169968          0.55555556   0
## 8255          0.60933198          0.60623938 0.57961477          0.55555556   0
## 8256          0.53410435          0.57696908 0.37930327          0.38888889   0
## 8257          0.61881181          0.54121172 0.45639742          0.33333333   1
## 8258          0.47570882          0.51351622 0.41536658          0.33333333   0
## 8259          0.60470177          0.59434427 0.56536805          0.50000000   0
## 8260          0.44281538          0.41292355 0.46366148          0.44444444   0
## 8261          0.48437683          0.52825555 0.54109483          0.33333333   1
## 8262          0.64716940          0.69705729 0.72041073          0.61111111   1
## 8263          0.49667864          0.42351323 0.33725909          0.38888889   0
## 8264          0.45620636          0.45975667 0.50060388          0.72222222   1
## 8265          0.52169415          0.56171816 0.53325476          0.61111111   1
## 8266          0.67931431          0.37772793 0.33130707          0.50000000   1
## 8267          0.45695308          0.51851755 0.53622876          0.38888889   1
## 8268          0.35755875          0.46365929 0.40561922          0.33333333   0
## 8269          0.53775731          0.56255921 0.60505126          0.66666667   0
## 8270          0.47695330          0.36774624 0.35352789          0.38888889   0
## 8271          0.54679673          0.48507133 0.42306751          0.50000000   1
## 8272          0.70114720          0.76203832 0.62716863          0.50000000   1
## 8273          0.46775030          0.42144656 0.41799503          0.61111111   1
## 8274          0.45837454          0.49593145 0.49067186          0.50000000   0
## 8275          0.68767495          0.60780282 0.55403906          0.38888889   1
## 8276          0.47935082          0.43696907 0.36137800          0.44444444   1
## 8277          0.40553316          0.40079182 0.46759205          0.50000000   1
## 8278          0.62118137          0.64313547 0.65728593          0.55555556   1
## 8279          0.41624064          0.36985425 0.33853021          0.33333333   0
## 8280          0.24907080          0.45508240 0.54693795          0.61111111   1
## 8281          0.51887411          0.47923018 0.50858074          0.50000000   1
## 8282          0.42977704          0.37543398 0.45267748          0.50000000   0
## 8283          0.42509266          0.41688206 0.47622431          0.61111111   0
## 8284          0.55702694          0.57813689 0.46205579          0.50000000   0
```

```
## 8285          0.43164942          0.53919961 0.51459086          0.50000000  0
## 8286          0.40344794          0.39312961 0.28509860          0.50000000  1
## 8287          0.58428780          0.64264103 0.64229974          0.72222222  1
## 8288          0.64061714          0.76652078 0.58427387          0.50000000  1
## 8289          0.55169787          0.49639275 0.51294152          0.44444444  1
## 8290          0.33825479          0.26473996 0.35992428          0.55555556  0
## 8291          0.57122887          0.65237664 0.65758406          0.72222222  1
## 8292          0.43014391          0.30973063 0.24343497          0.27777778  0
## 8293          0.58341668          0.63279234 0.50773333          0.50000000  1
## 8294          0.47357826          0.55438912 0.63522096          0.72222222  1
## 8295          0.56980233          0.48790551 0.51574264          0.66666667  0
## 8296          0.47502807          0.40111404 0.43538337          0.44444444  1
## 8297          0.44858114          0.42762645 0.36890866          0.50000000  0
## 8298          0.68197699          0.77832445 0.67002691          0.77777778  1
## 8299          0.51030016          0.58935873 0.53167335          0.72222222  1
## 8300          0.73023825          0.59861007 0.64205737          0.72222222  1
## 8301          0.52201983          0.45614849 0.35529406          0.33333333  0
## 8302          0.51811950          0.51802909 0.56334168          0.55555556  1
## 8303          0.41575260          0.30594484 0.18620589          0.11111111  0
## 8304          0.28238540          0.27809147 0.20504958          0.27777778  0
## 8305          0.53503729          0.60242444 0.54250182          0.50000000  0
## 8306          0.60842331          0.64291027 0.55334529          0.50000000  1
## 8307          0.55634469          0.37720426 0.45904258          0.50000000  1
## 8308          0.44462843          0.55085251 0.43723347          0.50000000  1
## 8309          0.65676267          0.80693063 0.62897434          0.72222222  0
## 8310          0.69057124          0.80267937 0.69806434          0.72222222  1
## 8311          0.51364480          0.47229774 0.40221955          0.50000000  0
## 8312          0.40357868          0.35905481 0.39722235          0.44444444  0
## 8313          0.50177044          0.57065109 0.35677233          0.50000000  0
## 8314          0.44789827          0.30767358 0.32196005          0.38888889  0
## 8315          0.57527139          0.55750354 0.54183815          0.66666667  0
## 8316          0.36814548          0.36213121 0.38341449          0.44444444  1
## 8317          0.37063420          0.25773818 0.17677278          0.27777778  0
## 8318          0.58148853          0.70113332 0.48688689          0.55555556  0
## 8319          0.42747401          0.37890918 0.51250109          0.55555556  0
## 8320          0.56775195          0.54679081 0.47080750          0.61111111  1
## 8321          0.38341836          0.35975833 0.39864356          0.44444444  1
## 8322          0.73546028          0.53325191 0.68207014          0.61111111  1
## 8323          0.53231405          0.43688421 0.34907949          0.33333333  0
## 8324          0.44147526          0.41103107 0.46915264          0.50000000  1
## 8325          0.32272097          0.39790613 0.32004319          0.33333333  0
## 8326          0.55709084          0.48794507 0.45725168          0.50000000  0
## 8327          0.26267996          0.40903509 0.51482795          0.38888889  1
## 8328          0.35607044          0.35965118 0.27806114          0.33333333  0
## 8329          0.52426813          0.49180205 0.50244906          0.61111111  0
## 8330          0.29950513          0.37295652 0.40990056          0.33333333  1
## 8331          0.58563909          0.44761315 0.39295109          0.44444444  0
## 8332          0.29223299          0.35801032 0.41513093          0.50000000  0
## 8333          0.44144472          0.46299531 0.41636356          0.38888889  0
## 8334          0.40334284          0.43791718 0.52413511          0.50000000  1
## 8335          0.48907003          0.44281266 0.44146035          0.55555556  0
## 8336          0.45551391          0.36637250 0.41341530          0.33333333  0
## 8337          0.58218064          0.59789479 0.45775689          0.55555556  1
## 8338          0.69093697          0.58057961 0.56083140          0.55555556  1
## 8339          0.49748170          0.51268685 0.52301060          0.44444444  0
## 8340          0.53129842          0.56086593 0.44450759          0.55555556  1
## 8341          0.35361643          0.29620254 0.20543423          0.22222222  0
## 8342          0.56134601          0.47731248 0.35047940          0.50000000  0
```

679

## 8343	0.49907777	0.40639932	0.40121222	0.55555556	1
## 8344	0.55269502	0.62331033	0.66337221	0.61111111	1
## 8345	0.33724573	0.28877716	0.35430245	0.33333333	0
## 8346	0.46243919	0.42077087	0.43051455	0.50000000	0
## 8347	0.60230138	0.69245046	0.65854425	0.66666667	0
## 8348	0.42447120	0.39429624	0.39857827	0.38888889	0
## 8349	0.45211014	0.33406124	0.52310920	0.44444444	1
## 8350	0.37027867	0.35114555	0.36765391	0.33333333	0
## 8351	0.55464666	0.60443418	0.51659117	0.55555556	0
## 8352	0.39510016	0.39306778	0.33053985	0.33333333	1
## 8353	0.21553771	0.15260178	0.20675632	0.38888889	0
## 8354	0.61882882	0.37827688	0.24201017	0.44444444	0
## 8355	0.53946073	0.61987324	0.54191681	0.33333333	1
## 8356	0.54235283	0.54822956	0.45183879	0.55555556	1
## 8357	0.48056834	0.48648253	0.45326448	0.44444444	1
## 8358	0.64325602	0.75111455	0.56611190	0.61111111	1
## 8359	0.40800511	0.51747339	0.51565976	0.38888889	0
## 8360	0.39832438	0.34241716	0.24886226	0.27777778	0
## 8361	0.33037965	0.31697578	0.32059875	0.33333333	0
## 8362	0.64117399	0.62592969	0.52010594	0.61111111	1
## 8363	0.54540596	0.52390291	0.50758428	0.66666667	1
## 8364	0.48808655	0.35908442	0.40417872	0.38888889	0
## 8365	0.47008097	0.39666957	0.49092667	0.50000000	1
## 8366	0.48156010	0.45288906	0.46862265	0.55555556	0
## 8367	0.49184003	0.51708401	0.45928686	0.44444444	1
## 8368	0.41560961	0.36187879	0.21888416	0.22222222	0
## 8369	0.63020603	0.63722728	0.61538022	0.66666667	1
## 8370	0.47356895	0.40585775	0.35264439	0.38888889	0
## 8371	0.38273313	0.32766554	0.41580146	0.55555556	1
## 8372	0.44307846	0.48301083	0.47856034	0.44444444	0
## 8373	0.48128077	0.50803963	0.62718127	0.61111111	1
## 8374	0.43474363	0.43640200	0.45823145	0.50000000	1
## 8375	0.63690893	0.65655720	0.53892186	0.61111111	1
## 8376	0.75082760	0.78955062	0.76571373	0.72222222	1
## 8377	0.45729048	0.35314994	0.40764882	0.61111111	0
## 8378	0.57387175	0.59925007	0.48268992	0.55555556	0
## 8379	0.51390920	0.57287601	0.66130939	0.50000000	1
## 8380	0.54943596	0.55999085	0.54250716	0.50000000	0
## 8381	0.63910444	0.74209820	0.53413202	0.50000000	0
## 8382	0.59567341	0.63566346	0.72810994	0.77777778	1
## 8383	0.65330692	0.69405592	0.64879443	0.61111111	1
## 8384	0.51109695	0.60313887	0.50972258	0.50000000	1
## 8385	0.36884666	0.27229316	0.25014662	0.38888889	0
## 8386	0.45553797	0.40442757	0.41029590	0.44444444	0
## 8387	0.53739483	0.50981380	0.56889157	0.55555556	1
## 8388	0.57280147	0.56927858	0.60958631	0.55555556	1
## 8389	0.38965604	0.44907747	0.42161797	0.44444444	0
## 8390	0.67670967	0.78202473	0.71080017	0.72222222	1
## 8391	0.60232355	0.61226911	0.68967013	0.61111111	1
## 8392	0.59808650	0.63050725	0.50633363	0.50000000	1
## 8393	0.50809825	0.43382284	0.52507685	0.55555556	0
## 8394	0.51618866	0.42097350	0.36892338	0.44444444	1
## 8395	0.55667109	0.54716664	0.45008527	0.38888889	0
## 8396	0.54010330	0.42756951	0.47015449	0.61111111	1
## 8397	0.51520777	0.59707046	0.60667591	0.55555556	0
## 8398	0.43448103	0.39108798	0.38484224	0.38888889	1
## 8399	0.56667754	0.40691540	0.48573089	0.61111111	0
## 8400	0.55719556	0.61287335	0.62193746	0.61111111	1

```
## 8401          0.68432727          0.46601460 0.45577782          0.44444444   0
## 8402          0.46106163          0.44360865 0.38984882          0.38888889   1
## 8403          0.57324838          0.44748387 0.48508647          0.55555556   1
## 8404          0.65175449          0.67194341 0.51725410          0.38888889   1
## 8405          0.56235161          0.43369451 0.45380569          0.55555556   1
## 8406          0.52191542          0.58497152 0.54713428          0.50000000   0
## 8407          0.58300559          0.60875682 0.48612526          0.55555556   1
## 8408          0.52704254          0.48057022 0.56330168          0.66666667   1
## 8409          0.38940128          0.43155037 0.47357718          0.44444444   0
## 8410          0.54564985          0.57129384 0.51160388          0.55555556   1
## 8411          0.54702739          0.61963270 0.63749883          0.66666667   1
## 8412          0.52955070          0.51378084 0.40662745          0.38888889   0
## 8413          0.55137818          0.48851705 0.44035592          0.44444444   0
## 8414          0.55251560          0.43628618 0.35361492          0.27777778   0
## 8415          0.42107980          0.35454893 0.35036120          0.55555556   0
## 8416          0.61810117          0.66651334 0.55662415          0.50000000   1
## 8417          0.50781702          0.41746517 0.37452151          0.33333333   1
## 8418          0.38282179          0.43741434 0.48295246          0.44444444   1
## 8419          0.33370974          0.50977127 0.40183098          0.44444444   0
## 8420          0.67456955          0.69448718 0.66766468          0.61111111   0
## 8421          0.51062355          0.56665026 0.52148041          0.55555556   1
## 8422          0.51121471          0.62303540 0.67199145          0.61111111   1
## 8423          0.45711986          0.58620521 0.43019004          0.44444444   0
## 8424          0.36991314          0.44902809 0.36209261          0.38888889   0
## 8425          0.20646613          0.34915387 0.45061512          0.33333333   0
## 8426          0.59869473          0.60759525 0.56410452          0.50000000   0
## 8427          0.41010992          0.31929307 0.38333794          0.38888889   0
## 8428          0.41125050          0.69812840 0.62903002          0.72222222   1
## 8429          0.61099164          0.65257285 0.63905580          0.61111111   1
## 8430          0.50382833          0.54136507 0.44477699          0.38888889   0
## 8431          0.48538966          0.50124905 0.48969019          0.55555556   1
## 8432          0.57302634          0.63998415 0.59958430          0.61111111   1
## 8433          0.47415089          0.43953741 0.37863724          0.33333333   0
## 8434          0.57369001          0.71921931 0.68210036          0.66666667   1
## 8435          0.49403207          0.51927128 0.46363367          0.50000000   1
## 8436          0.42891759          0.45724819 0.51922720          0.61111111   0
## 8437          0.43485272          0.29439383 0.48333732          0.38888889   1
## 8438          0.57101847          0.51068538 0.50241054          0.66666667   0
## 8439          0.50228421          0.53688288 0.48421419          0.50000000   0
## 8440          0.42493983          0.41545694 0.25174996          0.33333333   1
## 8441          0.52478797          0.48604587 0.40175955          0.44444444   1
## 8442          0.61627923          0.65867408 0.66650893          0.66666667   0
## 8443          0.64697953          0.63713511 0.47481772          0.55555556   0
## 8444          0.63515489          0.63402792 0.67835023          0.61111111   1
## 8445          0.56912140          0.61383360 0.55489652          0.44444444   1
## 8446          0.64320502          0.59414288 0.56463228          0.50000000   0
## 8447          0.52237139          0.47749940 0.36742541          0.38888889   0
## 8448          0.45619301          0.45773412 0.50341855          0.61111111   0
## 8449          0.49478460          0.43410563 0.39591075          0.44444444   0
## 8450          0.44237862          0.42277214 0.34192855          0.33333333   0
## 8451          0.47188261          0.43053437 0.43228227          0.33333333   0
## 8452          0.48575854          0.44635621 0.42757901          0.38888889   1
## 8453          0.46230376          0.47351707 0.54674740          0.50000000   1
## 8454          0.57053276          0.73795335 0.58710754          0.55555556   0
## 8455          0.38983738          0.41143606 0.40912513          0.55555556   0
## 8456          0.47070987          0.43250566 0.37653565          0.33333333   0
## 8457          0.51104265          0.45845260 0.49597603          0.50000000   0
## 8458          0.39767562          0.28629908 0.28618920          0.38888889   0
```

681

```
## 8459       0.54540985        0.55145031 0.48329582     0.44444444   0
## 8460       0.57179400        0.64895303 0.45178720     0.50000000   0
## 8461       0.46811739        0.49734494 0.50609796     0.55555556   1
## 8462       0.61398232        0.75874340 0.81369832     0.83333333   1
## 8463       0.50773401        0.57686561 0.49034731     0.44444444   1
## 8464       0.61822453        0.60337094 0.54411380     0.50000000   1
## 8465       0.52410670        0.53203407 0.46657128     0.61111111   1
## 8466       0.40592822        0.38440749 0.43439201     0.66666667   0
## 8467       0.49737835        0.55179760 0.58219841     0.55555556   0
## 8468       0.53778402        0.68540819 0.57702746     0.55555556   0
## 8469       0.48384917        0.45056809 0.44002116     0.55555556   0
## 8470       0.46682212        0.51898340 0.57807699     0.66666667   0
## 8471       0.37853984        0.42364113 0.35243989     0.50000000   0
## 8472       0.50533508        0.42969223 0.46077884     0.33333333   0
## 8473       0.54572922        0.34655048 0.30576655     0.38888889   0
## 8474       0.37677113        0.33024801 0.37363249     0.33333333   0
## 8475       0.45014466        0.37918448 0.41032353     0.50000000   0
## 8476       0.35625720        0.40057441 0.53412240     0.50000000   1
## 8477       0.40168560        0.48703726 0.41309292     0.50000000   0
## 8478       0.47992035        0.41775158 0.44368779     0.38888889   0
## 8479       0.53513030        0.45432817 0.53069036     0.61111111   1
## 8480       0.63956268        0.61207419 0.50333945     0.61111111   1
## 8481       0.61865287        0.49360614 0.60858491     0.55555556   0
## 8482       0.54190310        0.53906810 0.49870511     0.50000000   1
## 8483       0.60234617        0.43533117 0.45227863     0.44444444   0
## 8484       0.59822992        0.55807255 0.44682534     0.27777778   1
## 8485       0.49788069        0.52789278 0.36788641     0.33333333   1
## 8486       0.50231155        0.54914491 0.47402094     0.44444444   1
## 8487       0.63916015        0.56224333 0.62420804     0.66666667   1
## 8488       0.66203643        0.59134320 0.57716082     0.61111111   0
## 8489       0.42805648        0.41633208 0.45145225     0.27777778   0
## 8490       0.58254291        0.60184437 0.58421839     0.55555556   1
## 8491       0.70726854        0.66184568 0.58512808     0.61111111   1
## 8492       0.30948938        0.22619029 0.41641572     0.44444444   0
## 8493       0.49590461        0.40927944 0.34498225     0.44444444   0
## 8494       0.46462116        0.51471967 0.41686384     0.50000000   0
## 8495       0.47478147        0.54629113 0.37063900     0.27777778   0
## 8496       0.39704066        0.37976160 0.40299616     0.50000000   0
## 8497       0.36543747        0.33734359 0.44615799     0.44444444   1
## 8498       0.51113146        0.55590351 0.47828977     0.38888889   0
## 8499       0.53562101        0.39127196 0.32718959     0.33333333   0
## 8500       0.50241217        0.55588326 0.46167751     0.33333333   0
## 8501       0.53223848        0.54397149 0.45578709     0.50000000   1
## 8502       0.56303240        0.57197535 0.38667062     0.22222222   0
## 8503       0.35725144        0.49128886 0.50104602     0.38888889   1
## 8504       0.57992007        0.59467698 0.69611168     0.55555556   1
## 8505       0.44144802        0.39518886 0.29875546     0.38888889   0
## 8506       0.44546907        0.55969803 0.38937197     0.33333333   1
## 8507       0.43448791        0.31580167 0.23534193     0.33333333   0
## 8508       0.56636273        0.62332250 0.54157194     0.50000000   1
## 8509       0.57263901        0.47012361 0.42588131     0.27777778   0
## 8510       0.51564539        0.50233904 0.48686740     0.38888889   1
## 8511       0.47940020        0.33833424 0.29393492     0.27777778   0
## 8512       0.52549722        0.41065063 0.36817860     0.33333333   0
## 8513       0.60797809        0.47831116 0.45989944     0.66666667   1
## 8514       0.53319755        0.36138499 0.50775077     0.50000000   0
## 8515       0.50261972        0.46074193 0.52473481     0.44444444   0
## 8516       0.54466006        0.53724029 0.49015308     0.50000000   1
```

```
## 8517          0.44843930          0.55473900 0.59234577          0.61111111    1
## 8518          0.50288599          0.42565143 0.47880395          0.61111111    0
## 8519          0.33925913          0.33404631 0.36115937          0.44444444    0
## 8520          0.66902997          0.55673086 0.59471948          0.66666667    0
## 8521          0.47187299          0.49673594 0.52904277          0.50000000    0
## 8522          0.49463493          0.57378691 0.54126988          0.61111111    0
## 8523          0.59422128          0.51226331 0.55310052          0.66666667    1
## 8524          0.43235360          0.44713476 0.46569089          0.61111111    1
## 8525          0.44911377          0.35249071 0.52068433          0.61111111    1
## 8526          0.53184672          0.70871992 0.52115369          0.44444444    1
## 8527          0.44055895          0.43711552 0.29394602          0.44444444    0
## 8528          0.58343080          0.63230524 0.68370934          0.77777778    1
## 8529          0.37443394          0.42966595 0.35226264          0.33333333    0
## 8530          0.57763932          0.57927934 0.61917911          0.66666667    0
## 8531          0.58168867          0.39725760 0.37316540          0.50000000    0
## 8532          0.60897054          0.74187083 0.52787378          0.38888889    1
## 8533          0.50853112          0.52895957 0.56813870          0.55555556    1
## 8534          0.52904242          0.54367418 0.55184965          0.61111111    1
## 8535          0.62038590          0.74547195 0.43027346          0.38888889    0
## 8536          0.53498306          0.53651547 0.58522756          0.61111111    0
## 8537          0.50404669          0.50954226 0.53884959          0.77777778    1
## 8538          0.54870031          0.50950060 0.55760923          0.44444444    0
## 8539          0.43142892          0.52704151 0.42450867          0.44444444    0
## 8540          0.46854366          0.41529676 0.39166936          0.38888889    0
## 8541          0.45011019          0.34020449 0.44772261          0.61111111    1
## 8542          0.48968096          0.47288799 0.34395385          0.22222222    0
## 8543          0.64558610          0.70348696 0.64024174          0.44444444    1
## 8544          0.54249284          0.56718866 0.50713278          0.50000000    1
## 8545          0.53502204          0.70542976 0.59950752          0.50000000    1
## 8546          0.65645857          0.72050366 0.80618930          0.83333333    1
## 8547          0.75088589          0.62187109 0.41523696          0.44444444    1
## 8548          0.52284774          0.46232154 0.50172248          0.44444444    1
## 8549          0.41632422          0.41596573 0.43968256          0.27777778    1
## 8550          0.37644006          0.40784412 0.48879190          0.44444444    1
## 8551          0.51051741          0.42280607 0.48114363          0.33333333    1
## 8552          0.55592674          0.47071929 0.47094488          0.50000000    1
## 8553          0.48769927          0.57741322 0.40532365          0.44444444    0
## 8554          0.50263412          0.54662810 0.51860471          0.55555556    0
## 8555          0.56286861          0.71753370 0.61502154          0.50000000    1
## 8556          0.44902582          0.33774103 0.39155831          0.50000000    0
## 8557          0.71003546          0.67092883 0.59968725          0.72222222    1
## 8558          0.46111584          0.53250053 0.62115125          0.50000000    1
## 8559          0.45753283          0.46046498 0.50005757          0.44444444    0
## 8560          0.44344884          0.49566878 0.48947096          0.61111111    1
## 8561          0.55740925          0.57711168 0.70044354          0.61111111    1
## 8562          0.46974455          0.51997897 0.52018336          0.61111111    0
## 8563          0.70453535          0.50774740 0.67530899          0.66666667    1
## 8564          0.46367540          0.42605089 0.53690506          0.66666667    1
## 8565          0.60948709          0.55425926 0.63778825          0.83333333    1
## 8566          0.62108559          0.62656051 0.53821257          0.44444444    1
## 8567          0.48222748          0.41830147 0.39595849          0.38888889    1
## 8568          0.55204968          0.50216977 0.46482317          0.22222222    1
## 8569          0.46966817          0.51669792 0.51362382          0.44444444    0
## 8570          0.47949157          0.50068810 0.51086729          0.61111111    0
## 8571          0.51556000          0.60071931 0.42678702          0.50000000    0
## 8572          0.55153757          0.42423696 0.56127476          0.77777778    1
## 8573          0.42988237          0.43148144 0.56920114          0.61111111    0
## 8574          0.65396215          0.70881207 0.66733827          0.55555556    1
```

```
## 8575          0.42654889          0.50513388 0.61631248          0.50000000  1
## 8576          0.65512836          0.62133494 0.68146061          0.55555556  1
## 8577          0.55392657          0.63248997 0.55755991          0.50000000  1
## 8578          0.53666417          0.49592694 0.46140144          0.72222222  0
## 8579          0.59862031          0.50677046 0.49493124          0.44444444  0
## 8580          0.48528106          0.39137116 0.45590358          0.55555556  0
## 8581          0.81617944          0.80388183 0.64243252          0.66666667  1
## 8582          0.43155754          0.44860133 0.46528053          0.50000000  0
## 8583          0.50279797          0.42579078 0.30939988          0.33333333  0
## 8584          0.36782326          0.55710379 0.66181980          0.50000000  0
## 8585          0.31702692          0.45641712 0.34565635          0.50000000  1
## 8586          0.37797330          0.27002623 0.24794310          0.11111111  0
## 8587          0.37624805          0.34748600 0.38206656          0.38888889  0
## 8588          0.60798471          0.59647537 0.47103387          0.44444444  1
## 8589          0.45260491          0.43920573 0.49911640          0.44444444  1
## 8590          0.55867771          0.59308262 0.46043887          0.55555556  0
## 8591          0.52389631          0.50498911 0.49134914          0.50000000  1
## 8592          0.51566406          0.67715423 0.62021770          0.72222222  1
## 8593          0.58472909          0.55887523 0.58029135          0.61111111  0
## 8594          0.59808592          0.67592353 0.58561010          0.55555556  1
## 8595          0.51725222          0.59845647 0.63749497          0.88888889  1
## 8596          0.49981002          0.42466344 0.39353773          0.38888889  0
## 8597          0.45141386          0.43961750 0.32402633          0.33333333  1
## 8598          0.44834925          0.49940657 0.50660497          0.61111111  1
## 8599          0.50093365          0.42480863 0.52196440          0.83333333  1
## 8600          0.48783792          0.56409214 0.62202692          0.55555556  0
## 8601          0.78535096          0.59404316 0.58421333          0.50000000  0
## 8602          0.48610513          0.48593297 0.53674018          0.55555556  0
## 8603          0.30216371          0.20385843 0.34445366          0.44444444  0
## 8604          0.60747064          0.63250938 0.63874126          0.50000000  1
## 8605          0.50781426          0.44108553 0.30780414          0.22222222  0
## 8606          0.61544513          0.43265589 0.36592608          0.50000000  1
## 8607          0.50578597          0.52030471 0.55251522          0.50000000  0
## 8608          0.32550845          0.21212169 0.24102571          0.22222222  0
## 8609          0.63038265          0.72800274 0.57609987          0.50000000  1
## 8610          0.16265039          0.36765336 0.28558144          0.38888889  0
## 8611          0.56595549          0.67193811 0.57818353          0.61111111  0
## 8612          0.39368718          0.34721706 0.29837569          0.33333333  0
## 8613          0.42637015          0.43801015 0.39854910          0.50000000  1
## 8614          0.46651578          0.34440826 0.48025533          0.66666667  0
## 8615          0.36072218          0.25291347 0.29188507          0.27777778  0
## 8616          0.59968745          0.59931081 0.64838195          0.83333333  1
## 8617          0.32455462          0.61287672 0.60210800          0.55555556  1
## 8618          0.32929364          0.18889963 0.20918090          0.27777778  0
## 8619          0.60420350          0.62917318 0.47398031          0.44444444  0
## 8620          0.60401846          0.55004757 0.63457347          0.66666667  0
## 8621          0.50664585          0.44435377 0.54762214          0.61111111  1
## 8622          0.65255399          0.64141031 0.69859303          0.66666667  1
## 8623          0.62488295          0.69056644 0.69746473          0.66666667  1
## 8624          0.41710294          0.35867634 0.24234001          0.33333333  0
## 8625          0.41351821          0.41231873 0.41862777          0.55555556  0
## 8626          0.59346556          0.65630709 0.69127869          0.88888889  1
## 8627          0.40341123          0.49365385 0.53596967          0.50000000  0
## 8628          0.64248825          0.57465177 0.46141021          0.27777778  1
## 8629          0.65377499          0.64396197 0.54132271          0.66666667  0
## 8630          0.40271996          0.22457007 0.37328015          0.38888889  0
## 8631          0.46062241          0.47999407 0.29388549          0.38888889  0
## 8632          0.45823369          0.50114294 0.40553001          0.44444444  1
```

```
## 8633          0.27422751          0.29551663 0.23719110          0.22222222     0
## 8634          0.49500183          0.41949314 0.47283052          0.44444444     0
## 8635          0.49704757          0.47028186 0.47554335          0.33333333     0
## 8636          0.33078019          0.39697019 0.40453487          0.44444444     0
## 8637          0.57009361          0.53909972 0.59447080          0.66666667     0
## 8638          0.68893655          0.56342991 0.54157282          0.66666667     1
## 8639          0.42800864          0.57772868 0.47486364          0.55555556     0
## 8640          0.53751120          0.49499874 0.45807799          0.61111111     0
## 8641          0.56095368          0.54206867 0.44897731          0.55555556     0
## 8642          0.41718712          0.45386527 0.42575296          0.50000000     0
## 8643          0.47019250          0.48137313 0.46514295          0.38888889     0
## 8644          0.45267385          0.40315544 0.41510851          0.38888889     0
## 8645          0.65158637          0.60862201 0.64706676          0.72222222     1
## 8646          0.48841353          0.50569325 0.49574431          0.50000000     0
## 8647          0.56343813          0.51756324 0.60219354          0.50000000     1
## 8648          0.62801550          0.54091790 0.51856404          0.55555556     0
## 8649          0.47275188          0.46866684 0.43414234          0.50000000     1
## 8650          0.61454532          0.49914501 0.55047542          0.38888889     1
## 8651          0.40220404          0.34373162 0.40747891          0.44444444     0
## 8652          0.49080739          0.62795193 0.69077490          0.83333333     1
## 8653          0.65760506          0.70037869 0.56563323          0.66666667     1
## 8654          0.50013552          0.55487565 0.64496911          0.44444444     1
## 8655          0.55169121          0.58754003 0.58479626          0.55555556     1
## 8656          0.56312754          0.60687233 0.59447080          0.61111111     1
## 8657          0.53753080          0.59297746 0.54735043          0.50000000     0
## 8658          0.56534165          0.52955934 0.51213064          0.66666667     0
## 8659          0.67929485          0.57056363 0.48166479          0.44444444     1
## 8660          0.46460909          0.44434501 0.54079145          0.50000000     1
## 8661          0.40955360          0.32858349 0.41872024          0.50000000     1
## 8662          0.54237853          0.47908677 0.40047622          0.61111111     0
## 8663          0.36653362          0.27190713 0.26636050          0.44444444     0
## 8664          0.61095971          0.70808509 0.68885592          0.72222222     0
## 8665          0.51772758          0.48699938 0.47330952          0.50000000     1
## 8666          0.53837596          0.49911951 0.35128300          0.33333333     0
## 8667          0.42785500          0.30708399 0.26212826          0.38888889     0
## 8668          0.54954254          0.46101285 0.40562233          0.50000000     0
## 8669          0.48877111          0.52564487 0.48483243          0.72222222     1
## 8670          0.51808730          0.47623999 0.32864435          0.33333333     0
## 8671          0.42869906          0.51231787 0.52458637          0.50000000     0
## 8672          0.66094531          0.79579270 0.54751288          0.55555556     1
## 8673          0.66772882          0.71176141 0.66697812          0.66666667     1
## 8674          0.38493983          0.49594186 0.44027660          0.55555556     0
## 8675          0.41305146          0.52053632 0.51355988          0.50000000     1
## 8676          0.47443004          0.52209846 0.54241579          0.55555556     0
## 8677          0.42333426          0.58246660 0.59707519          0.61111111     0
## 8678          0.57695443          0.66615010 0.58258411          0.77777778     1
## 8679          0.54928902          0.61702376 0.63549999          0.61111111     1
## 8680          0.47527007          0.46421160 0.47453118          0.33333333     0
## 8681          0.59393234          0.66021934 0.65483415          0.72222222     1
## 8682          0.46900511          0.41989163 0.32567744          0.55555556     1
## 8683          0.56484914          0.59457591 0.61697229          0.44444444     1
## 8684          0.62628580          0.61182379 0.53173007          0.66666667     1
## 8685          0.48050445          0.55662217 0.52052298          0.50000000     1
## 8686          0.36210715          0.28508158 0.29949006          0.33333333     0
## 8687          0.56798526          0.55422625 0.53782285          0.50000000     0
## 8688          0.41621545          0.42087674 0.48577523          0.44444444     0
## 8689          0.53772803          0.44077339 0.60695581          0.55555556     0
## 8690          0.34541088          0.30803039 0.30554148          0.38888889     1
```

## 8691	0.38626064	0.31160864 0.48743010	0.50000000	1
## 8692	0.40371758	0.24693577 0.23580345	0.27777778	0
## 8693	0.59268663	0.54546655 0.47993655	0.44444444	1
## 8694	0.53114288	0.50938152 0.49565238	0.61111111	0
## 8695	0.53979047	0.47778267 0.47746127	0.38888889	0
## 8696	0.63694102	0.63899702 0.58982520	0.50000000	1
## 8697	0.40939959	0.37916474 0.37718129	0.33333333	0
## 8698	0.40152548	0.29308813 0.35546001	0.38888889	0
## 8699	0.44285628	0.39416659 0.46047598	0.50000000	0
## 8700	0.57597761	0.56716807 0.45756848	0.44444444	1
## 8701	0.56774458	0.52851138 0.62913227	0.50000000	0
## 8702	0.51933526	0.55725286 0.55435060	0.61111111	1
## 8703	0.52629776	0.57607728 0.49923312	0.50000000	0
## 8704	0.59784576	0.56790395 0.55303279	0.50000000	1
## 8705	0.50438062	0.49327887 0.51760033	0.50000000	1
## 8706	0.57620251	0.59710013 0.54838759	0.61111111	0
## 8707	0.46810055	0.42506762 0.47254975	0.44444444	0
## 8708	0.43360206	0.44815690 0.43364500	0.61111111	0
## 8709	0.58317284	0.47265050 0.50112523	0.61111111	1
## 8710	0.38757580	0.34511606 0.41023739	0.22222222	1
## 8711	0.30800704	0.33699558 0.34049563	0.38888889	1
## 8712	0.59828027	0.62852944 0.53010060	0.50000000	1
## 8713	0.58053066	0.80130661 0.54455494	0.72222222	1
## 8714	0.34188195	0.32838123 0.32780993	0.50000000	0
## 8715	0.61984330	0.52427362 0.59509739	0.77777778	1
## 8716	0.59553406	0.46234605 0.48576236	0.61111111	0
## 8717	0.43133354	0.45597146 0.38752683	0.38888889	0
## 8718	0.46486026	0.47341145 0.42078279	0.44444444	0
## 8719	0.55710444	0.49200261 0.47567949	0.55555556	1
## 8720	0.67837166	0.63841968 0.58103314	0.50000000	0
## 8721	0.35149524	0.48655267 0.44152634	0.38888889	0
## 8722	0.51587390	0.59052869 0.51739234	0.61111111	1
## 8723	0.46421755	0.44920879 0.40331681	0.38888889	0
## 8724	0.48852803	0.41925589 0.54676857	0.55555556	1
## 8725	0.71031598	0.55972523 0.40627082	0.44444444	0
## 8726	0.66986618	0.65837918 0.56536462	0.50000000	1
## 8727	0.28871193	0.24948010 0.55541472	0.55555556	1
## 8728	0.47120205	0.63785215 0.61168871	0.50000000	1
## 8729	0.37383325	0.52035340 0.37752657	0.44444444	0
## 8730	0.60826976	0.52493754 0.46667160	0.72222222	1
## 8731	0.47775712	0.34780951 0.45421186	0.61111111	0
## 8732	0.61807122	0.66270022 0.70320179	0.72222222	1
## 8733	0.51963639	0.37193149 0.37389380	0.33333333	0
## 8734	0.50042167	0.54947325 0.62926408	0.66666667	1
## 8735	0.61289056	0.60819375 0.42718312	0.22222222	0
## 8736	0.37676112	0.26458073 0.35885253	0.50000000	0
## 8737	0.36613285	0.27118935 0.38857088	0.33333333	1
## 8738	0.61509545	0.45362516 0.58867012	0.61111111	0
## 8739	0.49262796	0.37617861 0.26059699	0.33333333	0
## 8740	0.51823396	0.35807181 0.58017640	0.66666667	1
## 8741	0.38557103	0.36592578 0.45159424	0.38888889	1
## 8742	0.55492677	0.67342274 0.48902347	0.55555556	1
## 8743	0.29299858	0.44018880 0.52332908	0.50000000	0
## 8744	0.51528494	0.56787635 0.56981895	0.50000000	1
## 8745	0.54191977	0.49399097 0.38877892	0.33333333	0
## 8746	0.42850060	0.47232347 0.53819765	0.44444444	0
## 8747	0.64066555	0.75678529 0.76636004	0.66666667	1
## 8748	0.39861728	0.33226364 0.30259317	0.44444444	0

```
## 8749          0.50658369          0.57062790 0.61942276          0.55555556   1
## 8750          0.42216011          0.37964123 0.39403376          0.44444444   1
## 8751          0.63045807          0.75687988 0.55580652          0.55555556   1
## 8752          0.45908974          0.41897853 0.42521749          0.22222222   0
## 8753          0.60585880          0.67896319 0.53407603          0.66666667   1
## 8754          0.46417680          0.45829317 0.44134034          0.50000000   1
## 8755          0.45367224          0.30726762 0.35839840          0.33333333   1
## 8756          0.44441890          0.40630159 0.35342014          0.27777778   0
## 8757          0.44041970          0.32004636 0.46272699          0.38888889   1
## 8758          0.58713313          0.57452584 0.40568340          0.50000000   1
## 8759          0.34675759          0.37149592 0.38163786          0.38888889   1
## 8760          0.58284472          0.62415437 0.58108157          0.55555556   1
## 8761          0.37483550          0.31507582 0.28262798          0.38888889   0
## 8762          0.63187508          0.63246813 0.74938308          0.72222222   1
## 8763          0.64596322          0.63813355 0.69694641          0.55555556   0
## 8764          0.56585259          0.66390665 0.57752681          0.50000000   0
## 8765          0.71448906          0.83731968 0.63405418          0.61111111   1
## 8766          0.27809839          0.31856813 0.19616585          0.33333333   0
## 8767          0.66905301          0.59886060 0.58721839          0.88888889   1
## 8768          0.48802418          0.66232399 0.62634396          0.66666667   1
## 8769          0.40713272          0.40145176 0.48100889          0.61111111   0
## 8770          0.64025961          0.72782838 0.68194403          0.72222222   1
## 8771          0.50742325          0.55464493 0.52321609          0.61111111   0
## 8772          0.35504789          0.26135908 0.36281430          0.38888889   0
## 8773          0.47754672          0.48793053 0.48192639          0.50000000   0
## 8774          0.43660489          0.50686322 0.47262140          0.44444444   0
## 8775          0.64690875          0.68738838 0.56011487          0.61111111   1
## 8776          0.39237043          0.44714450 0.50074860          0.44444444   1
## 8777          0.46333702          0.44823287 0.42369747          0.33333333   0
## 8778          0.55682494          0.65689549 0.49453587          0.50000000   1
## 8779          0.57313433          0.63865099 0.40468011          0.44444444   1
## 8780          0.44093188          0.55555275 0.41863621          0.38888889   1
## 8781          0.41561982          0.35561427 0.36430493          0.33333333   0
## 8782          0.40269018          0.32043104 0.45562917          0.38888889   0
## 8783          0.51867731          0.61133048 0.51650142          0.55555556   1
## 8784          0.66307196          0.57489355 0.50079462          0.55555556   0
## 8785          0.45232511          0.42803438 0.37040057          0.55555556   0
## 8786          0.35039963          0.30130231 0.41352098          0.61111111   1
## 8787          0.62843744          0.58276694 0.63554378          0.55555556   1
## 8788          0.60208000          0.63941676 0.53661526          0.38888889   1
## 8789          0.36338487          0.35120112 0.28141310          0.38888889   0
## 8790          0.69611490          0.68670133 0.66008247          0.55555556   1
## 8791          0.54687992          0.55793467 0.35555141          0.44444444   0
## 8792          0.43424670          0.42985919 0.50956290          0.38888889   1
## 8793          0.48310765          0.51513695 0.41943494          0.33333333   0
## 8794          0.42329600          0.45133744 0.45936069          0.50000000   1
## 8795          0.68680682          0.55171944 0.39187404          0.44444444   0
## 8796          0.69940040          0.58051690 0.41094238          0.61111111   0
## 8797          0.69145947          0.61811732 0.52675669          0.61111111   1
## 8798          0.66209905          0.52029752 0.64510738          0.61111111   1
## 8799          0.39956713          0.58276237 0.50710425          0.50000000   1
## 8800          0.51733392          0.55428926 0.54203092          0.66666667   0
## 8801          0.48790157          0.44333396 0.49837897          0.55555556   1
## 8802          0.43268661          0.48055725 0.48900498          0.55555556   1
## 8803          0.47749465          0.41636715 0.47260973          0.38888889   0
## 8804          0.51109707          0.57350246 0.52558031          0.50000000   0
## 8805          0.57841730          0.62181029 0.56952697          0.55555556   1
## 8806          0.37085138          0.47671648 0.41121457          0.27777778   0
```

```
## 8807          0.57792845          0.54136770 0.51742401          0.44444444  0
## 8808          0.56417624          0.75435328 0.58580330          0.55555556  1
## 8809          0.55127544          0.48054984 0.48200861          0.50000000  1
## 8810          0.56846141          0.55520776 0.47648968          0.55555556  1
## 8811          0.49054984          0.54519756 0.35996474          0.44444444  0
## 8812          0.49367676          0.51746044 0.48995326          0.50000000  1
## 8813          0.53571596          0.46137992 0.57133328          0.61111111  1
## 8814          0.50768767          0.47690928 0.39616723          0.55555556  1
## 8815          0.42790706          0.51963213 0.46915648          0.44444444  1
## 8816          0.45001773          0.58616867 0.45614882          0.66666667  1
## 8817          0.48812695          0.54789739 0.52712370          0.44444444  1
## 8818          0.46220222          0.47339292 0.38692104          0.38888889  1
## 8819          0.49473412          0.57069956 0.52586226          0.55555556  1
## 8820          0.44035130          0.41309147 0.37729600          0.50000000  0
## 8821          0.61734308          0.54167370 0.42338129          0.61111111  1
## 8822          0.38344688          0.29122416 0.29485806          0.38888889  0
## 8823          0.48323552          0.51917988 0.46631872          0.55555556  1
## 8824          0.54804876          0.64995078 0.50831523          0.50000000  0
## 8825          0.51586540          0.57437102 0.41460544          0.27777778  0
## 8826          0.58681970          0.71733438 0.61270153          0.55555556  1
## 8827          0.47950451          0.40061239 0.37272669          0.33333333  1
## 8828          0.35656034          0.38324185 0.44337811          0.44444444  1
## 8829          0.40078708          0.53180683 0.47668072          0.44444444  1
## 8830          0.36336331          0.37320819 0.28279332          0.22222222  0
## 8831          0.47930594          0.41274190 0.34362583          0.33333333  1
## 8832          0.52737093          0.55950430 0.51513905          0.55555556  1
## 8833          0.51751330          0.63099579 0.56414342          0.61111111  0
## 8834          0.30049162          0.15557727 0.32463006          0.38888889  0
## 8835          0.58242657          0.50140959 0.42798752          0.50000000  0
## 8836          0.53584757          0.57732826 0.55906164          0.44444444  0
## 8837          0.37866424          0.22553813 0.28693002          0.33333333  0
## 8838          0.42743167          0.49590757 0.30400559          0.33333333  0
## 8839          0.51754967          0.52972076 0.58873815          0.55555556  0
## 8840          0.49642102          0.32550547 0.36610248          0.38888889  0
## 8841          0.54856830          0.78784556 0.70395009          0.66666667  1
## 8842          0.48981733          0.38495322 0.44739108          0.33333333  0
## 8843          0.56102098          0.57185262 0.60550971          0.66666667  1
## 8844          0.43927346          0.46376446 0.48048915          0.38888889  1
## 8845          0.35385322          0.33503161 0.23949914          0.27777778  0
## 8846          0.70393552          0.64901472 0.72643423          0.72222222  1
## 8847          0.29587947          0.33338524 0.35246637          0.44444444  0
## 8848          0.58467961          0.56541389 0.52531939          0.61111111  0
## 8849          0.36688384          0.29950093 0.29236545          0.44444444  0
## 8850          0.44234734          0.48055228 0.52793646          0.55555556  1
## 8851          0.41910833          0.43045766 0.46471257          0.38888889  1
## 8852          0.48621973          0.48583276 0.51371663          0.50000000  1
## 8853          0.47793899          0.35376801 0.25086165          0.33333333  0
## 8854          0.61536597          0.65857618 0.73446665          0.66666667  1
## 8855          0.61271274          0.58808093 0.48529108          0.50000000  0
## 8856          0.68910293          0.78811993 0.58789260          0.61111111  1
## 8857          0.45161057          0.43085815 0.47620542          0.55555556  0
## 8858          0.41848018          0.42041525 0.34031521          0.27777778  0
## 8859          0.48940707          0.66932293 0.60034955          0.72222222  1
## 8860          0.36870649          0.39407146 0.49195259          0.44444444  0
## 8861          0.38193883          0.23836733 0.35329377          0.38888889  0
## 8862          0.64648587          0.71582064 0.72138326          0.77777778  1
## 8863          0.51881677          0.54361005 0.43370286          0.61111111  0
## 8864          0.54744070          0.58193825 0.44915091          0.55555556  0
```

## 8865	0.37800121	0.39232381	0.33064709	0.27777778	0
## 8866	0.47788781	0.50609864	0.62374606	0.50000000	1
## 8867	0.38343491	0.39219415	0.38483392	0.44444444	0
## 8868	0.46944262	0.47186937	0.46042329	0.50000000	0
## 8869	0.69763833	0.79531639	0.70264971	0.55555556	1
## 8870	0.29565690	0.28378477	0.33982934	0.33333333	0
## 8871	0.63640662	0.54515780	0.57347804	0.55555556	0
## 8872	0.56182689	0.56093510	0.45176807	0.44444444	0
## 8873	0.64026119	0.63143486	0.58350294	0.66666667	1
## 8874	0.41266365	0.39955034	0.39216666	0.50000000	1
## 8875	0.53994387	0.53995060	0.43077010	0.44444444	0
## 8876	0.40534588	0.37628085	0.30788367	0.38888889	0
## 8877	0.52877829	0.55501582	0.34954094	0.44444444	0
## 8878	0.60861505	0.61631119	0.58700094	0.50000000	1
## 8879	0.31519450	0.25366383	0.36003754	0.44444444	1
## 8880	0.49124421	0.43449733	0.43372309	0.44444444	0
## 8881	0.48201407	0.47693090	0.47853947	0.50000000	1
## 8882	0.50507479	0.56542123	0.51536092	0.61111111	1
## 8883	0.55525919	0.69469391	0.57535937	0.61111111	1
## 8884	0.56930883	0.56048789	0.42484127	0.61111111	1
## 8885	0.38022883	0.45398150	0.50798220	0.50000000	1
## 8886	0.65497622	0.50480176	0.51547101	0.61111111	0
## 8887	0.49004180	0.31095680	0.36855283	0.38888889	0
## 8888	0.54111279	0.70290473	0.54000140	0.55555556	0
## 8889	0.50616461	0.45142798	0.44799466	0.44444444	0
## 8890	0.45813179	0.53060809	0.57371921	0.50000000	1
## 8891	0.51059356	0.52284993	0.53549625	0.44444444	1
## 8892	0.61541108	0.60886232	0.50613943	0.50000000	0
## 8893	0.37722471	0.41814555	0.62116695	0.55555556	1
## 8894	0.66334969	0.55958059	0.49087400	0.66666667	1
## 8895	0.41955841	0.33249798	0.52831192	0.61111111	1
## 8896	0.37883583	0.38023165	0.36832674	0.33333333	0
## 8897	0.53595487	0.28302617	0.33198705	0.38888889	1
## 8898	0.42529816	0.40075446	0.40981568	0.44444444	1
## 8899	0.38084308	0.45840043	0.44146849	0.38888889	0
## 8900	0.57901190	0.61755802	0.57649376	0.66666667	0
## 8901	0.64505798	0.66950704	0.65721820	0.55555556	0
## 8902	0.58526189	0.64671996	0.48740519	0.44444444	1
## 8903	0.44035856	0.48642031	0.51932257	0.33333333	1
## 8904	0.34833541	0.29957402	0.32043456	0.50000000	0
## 8905	0.38165422	0.49303803	0.46913501	0.44444444	0
## 8906	0.48166010	0.50208592	0.46305150	0.44444444	0
## 8907	0.48186653	0.41185274	0.36912616	0.55555556	1
## 8908	0.45893642	0.48246713	0.47721445	0.44444444	1
## 8909	0.67584015	0.46800641	0.34200240	0.55555556	0
## 8910	0.44506122	0.23241019	0.35153791	0.38888889	1
## 8911	0.52497969	0.50925201	0.45162165	0.44444444	1
## 8912	0.48406397	0.55432412	0.55695987	0.61111111	0
## 8913	0.43553185	0.47994569	0.43065657	0.33333333	0
## 8914	0.44793555	0.43332067	0.37000322	0.50000000	0
## 8915	0.41970971	0.45739525	0.41347153	0.55555556	0
## 8916	0.44216226	0.58110955	0.61217991	0.50000000	1
## 8917	0.50269052	0.49936101	0.48701126	0.50000000	1
## 8918	0.39728430	0.34342921	0.36191594	0.50000000	0
## 8919	0.53614780	0.37928075	0.44110554	0.55555556	0
## 8920	0.37622527	0.40098068	0.47261558	0.22222222	1
## 8921	0.48277600	0.43726007	0.39994477	0.50000000	0
## 8922	0.47834796	0.49857107	0.49537617	0.38888889	0

```
## 8923          0.46012946          0.57125020 0.52243695          0.50000000   0
## 8924          0.56597971          0.55580725 0.63172429          0.50000000   0
## 8925          0.58463988          0.63604586 0.49953819          0.50000000   0
## 8926          0.58633739          0.54442723 0.54203473          0.55555556   0
## 8927          0.60322471          0.62529927 0.51421957          0.66666667   1
## 8928          0.47549518          0.52097658 0.51140648          0.50000000   0
## 8929          0.48404669          0.53759257 0.43987138          0.38888889   0
## 8930          0.38317492          0.31917355 0.32728673          0.33333333   0
## 8931          0.52957643          0.51228263 0.49829714          0.38888889   1
## 8932          0.46873191          0.64451612 0.67259944          0.50000000   1
## 8933          0.53397984          0.62679580 0.60172566          0.66666667   1
## 8934          0.49051956          0.50629886 0.47459549          0.55555556   1
## 8935          0.56552653          0.54171574 0.52851277          0.61111111   0
## 8936          0.29071516          0.33135585 0.34735901          0.44444444   0
## 8937          0.49195343          0.58944885 0.44391501          0.38888889   0
## 8938          0.48823574          0.48546826 0.50728939          0.55555556   1
## 8939          0.52524944          0.53077678 0.51540987          0.61111111   0
## 8940          0.49468257          0.50022522 0.44128894          0.61111111   0
## 8941          0.57760996          0.70541430 0.48516454          0.50000000   0
## 8942          0.56673404          0.50955469 0.51206130          0.50000000   1
## 8943          0.57054336          0.53847383 0.49830490          0.50000000   0
## 8944          0.44797669          0.39681141 0.53974092          0.50000000   1
## 8945          0.68699831          0.62051182 0.56563807          0.55555556   0
## 8946          0.55797829          0.51495102 0.49109702          0.50000000   1
## 8947          0.30985382          0.23487764 0.17357337          0.33333333   0
## 8948          0.51297906          0.60947908 0.54225205          0.44444444   1
## 8949          0.48727197          0.38037251 0.41756528          0.38888889   0
## 8950          0.49265240          0.42502179 0.31116112          0.38888889   0
## 8951          0.57195797          0.49441304 0.49100505          0.50000000   1
## 8952          0.59469646          0.44498729 0.38957782          0.44444444   0
## 8953          0.46543329          0.47286249 0.46133168          0.55555556   0
## 8954          0.35106078          0.25004963 0.36160716          0.38888889   0
## 8955          0.55756743          0.53459906 0.54592527          0.50000000   1
## 8956          0.39520652          0.40825175 0.48636692          0.50000000   1
## 8957          0.48593379          0.60736015 0.53721978          0.50000000   0
## 8958          0.35547231          0.28456313 0.30167596          0.33333333   0
## 8959          0.55364409          0.65948109 0.61509401          0.72222222   1
## 8960          0.53557564          0.59027721 0.51288559          0.50000000   0
## 8961          0.65116209          0.61403376 0.64958487          0.66666667   0
## 8962          0.60400915          0.70043306 0.71432708          0.72222222   1
## 8963          0.34109152          0.29819744 0.26685086          0.33333333   0
## 8964          0.57341653          0.51192238 0.61299720          0.44444444   1
## 8965          0.35546637          0.29932047 0.43648338          0.44444444   0
## 8966          0.69228321          0.75110534 0.58801602          0.44444444   1
## 8967          0.61019983          0.75308606 0.73253817          0.66666667   1
## 8968          0.37909797          0.28731445 0.35544591          0.55555556   1
## 8969          0.74722195          0.73134272 0.76188228          0.83333333   1
## 8970          0.45822181          0.40484028 0.41968963          0.44444444   1
## 8971          0.47048988          0.34694948 0.50174896          0.50000000   1
## 8972          0.56794902          0.59558828 0.56458179          0.61111111   1
## 8973          0.35676840          0.28211337 0.26041905          0.44444444   0
## 8974          0.47043039          0.49721324 0.53704521          0.44444444   0
## 8975          0.57781186          0.56647976 0.45725086          0.38888889   1
## 8976          0.44255582          0.35457500 0.40063848          0.50000000   1
## 8977          0.53323086          0.50277416 0.53621204          0.50000000   0
## 8978          0.33509551          0.40647635 0.39633439          0.55555556   1
## 8979          0.58628336          0.55962472 0.49403084          0.61111111   1
## 8980          0.52738340          0.53044806 0.52858208          0.61111111   0
```

690

```
## 8981          0.51127911        0.48806235 0.49395398        0.66666667   1
## 8982          0.53107364        0.56754947 0.45017658        0.44444444   0
## 8983          0.37640309        0.41463079 0.49697607        0.50000000   0
## 8984          0.55301736        0.52492291 0.44904207        0.55555556   1
## 8985          0.56196112        0.59401511 0.57726428        0.50000000   0
## 8986          0.41257873        0.40599569 0.38744044        0.33333333   0
## 8987          0.53484074        0.54531403 0.45517657        0.55555556   0
## 8988          0.51640685        0.60417479 0.56388016        0.61111111   1
## 8989          0.37113812        0.34189674 0.43297693        0.27777778   0
## 8990          0.48538013        0.51198062 0.44539219        0.44444444   1
## 8991          0.54234396        0.59377689 0.49312944        0.44444444   1
## 8992          0.45765915        0.45562335 0.54213499        0.50000000   0
## 8993          0.42075376        0.23988201 0.30925003        0.27777778   1
## 8994          0.46257626        0.29871116 0.46313377        0.55555556   0
## 8995          0.53438156        0.52371882 0.46066934        0.38888889   1
## 8996          0.57986863        0.54523568 0.55308996        0.72222222   1
## 8997          0.42158504        0.44870774 0.44249543        0.44444444   0
## 8998          0.58412527        0.62786194 0.59839466        0.61111111   1
## 8999          0.57588309        0.54559769 0.47114008        0.50000000   1
## 9000          0.47804862        0.52224760 0.59581030        0.61111111   1
## 9001          0.58376580        0.59229176 0.43502575        0.38888889   0
## 9002          0.61125503        0.55186103 0.50051989        0.50000000   0
## 9003          0.37851405        0.27554673 0.22440737        0.38888889   0
## 9004          0.40828935        0.49721487 0.52557506        0.38888889   0
## 9005          0.58122642        0.55850552 0.51411623        0.61111111   0
## 9006          0.50369041        0.54571669 0.38454667        0.55555556   0
## 9007          0.40886511        0.51312587 0.68294921        0.66666667   1
## 9008          0.43350332        0.28834710 0.30927031        0.27777778   0
## 9009          0.51780550        0.31193494 0.35475109        0.55555556   0
## 9010          0.44450549        0.45703448 0.39024298        0.44444444   1
## 9011          0.41698332        0.39606963 0.52135500        0.55555556   0
## 9012          0.49376799        0.41792086 0.40618992        0.33333333   0
## 9013          0.65539379        0.59773652 0.47146480        0.55555556   1
## 9014          0.46341187        0.56758324 0.66702888        0.55555556   1
## 9015          0.54398858        0.58891325 0.57335471        0.50000000   1
## 9016          0.58701774        0.49826881 0.37975489        0.66666667   1
## 9017          0.60067346        0.60349292 0.47804530        0.44444444   0
## 9018          0.54773787        0.52971703 0.49656639        0.61111111   0
## 9019          0.43413397        0.36980394 0.38924871        0.50000000   0
## 9020          0.48943781        0.46667466 0.54789344        0.44444444   0
## 9021          0.36117384        0.36204545 0.27272525        0.33333333   0
## 9022          0.59739152        0.48757081 0.46856030        0.61111111   1
## 9023          0.52237535        0.49689399 0.39637637        0.44444444   1
## 9024          0.45729823        0.59867622 0.56449394        0.50000000   1
## 9025          0.56618875        0.48302606 0.42190209        0.44444444   0
## 9026          0.53169706        0.41729825 0.45648684        0.44444444   1
## 9027          0.42724264        0.37950081 0.35813899        0.38888889   0
## 9028          0.66098834        0.66935505 0.72862980        0.66666667   0
## 9029          0.59809509        0.65127787 0.70922733        0.61111111   1
## 9030          0.54991972        0.42478144 0.44903956        0.55555556   0
## 9031          0.44723823        0.44907359 0.46269786        0.50000000   1
## 9032          0.40682501        0.40204477 0.46040096        0.50000000   0
## 9033          0.45897232        0.45002194 0.42573781        0.44444444   0
## 9034          0.51623931        0.54451105 0.65923682        0.72222222   1
## 9035          0.54170278        0.61947218 0.52501414        0.50000000   1
## 9036          0.39384822        0.43793802 0.35778574        0.44444444   1
## 9037          0.45522386        0.38380540 0.40894206        0.55555556   1
## 9038          0.44360315        0.39793623 0.45681018        0.55555556   1
```

691

```
## 9039          0.61981054          0.65773613 0.59433951          0.50000000   1
## 9040          0.49535500          0.63078043 0.60535860          0.55555556   0
## 9041          0.56746774          0.59145857 0.44686714          0.38888889   0
## 9042          0.54335261          0.49553684 0.38899413          0.44444444   0
## 9043          0.38088465          0.49272204 0.45382947          0.50000000   0
## 9044          0.43265129          0.32807823 0.39895439          0.55555556   1
## 9045          0.51109538          0.49918387 0.50468940          0.50000000   0
## 9046          0.48151177          0.43022765 0.49398666          0.38888889   0
## 9047          0.54816297          0.62880040 0.46338323          0.50000000   1
## 9048          0.45560261          0.46582527 0.48504767          0.55555556   1
## 9049          0.39986395          0.50099197 0.47084855          0.55555556   1
## 9050          0.20173823          0.42253867 0.36461445          0.44444444   1
## 9051          0.64335185          0.67801490 0.67137644          0.61111111   0
## 9052          0.56294736          0.57995540 0.55846573          0.55555556   0
## 9053          0.57618530          0.41436753 0.49145275          0.61111111   0
## 9054          0.44507592          0.40357308 0.56910432          0.66666667   1
## 9055          0.42957806          0.49431555 0.46365262          0.38888889   0
## 9056          0.53753168          0.49872489 0.49681625          0.33333333   1
## 9057          0.58170396          0.50183753 0.42069323          0.50000000   0
## 9058          0.50794796          0.50764988 0.55611230          0.50000000   0
## 9059          0.52656274          0.57607009 0.53572044          0.50000000   0
## 9060          0.57814432          0.71613226 0.65526287          0.77777778   1
## 9061          0.40219394          0.31952664 0.56596022          0.50000000   1
## 9062          0.53348156          0.58405192 0.54158286          0.50000000   1
## 9063          0.57019909          0.54102699 0.49151187          0.50000000   0
## 9064          0.39488279          0.60094097 0.60519811          0.77777778   0
## 9065          0.46783212          0.48914444 0.53194861          0.61111111   0
## 9066          0.36746028          0.38442098 0.47098935          0.55555556   0
## 9067          0.66268018          0.47182987 0.51402412          0.50000000   0
## 9068          0.43305465          0.36288588 0.39690384          0.38888889   0
## 9069          0.59367903          0.60763033 0.51922278          0.55555556   1
## 9070          0.42433120          0.48366967 0.48838914          0.33333333   1
## 9071          0.51531772          0.58831756 0.57729236          0.27777778   0
## 9072          0.53973288          0.47119246 0.45668534          0.38888889   0
## 9073          0.54688665          0.47570028 0.44303089          0.50000000   0
## 9074          0.73255327          0.77078832 0.60886607          0.72222222   1
## 9075          0.37075610          0.31071718 0.35211778          0.38888889   0
## 9076          0.59220327          0.63218285 0.64975514          0.66666667   1
## 9077          0.44829461          0.38471934 0.49209709          0.44444444   1
## 9078          0.45489472          0.66832061 0.52719364          0.55555556   1
## 9079          0.63003181          0.48575285 0.52749255          0.38888889   0
## 9080          0.55079714          0.51570369 0.39567743          0.50000000   1
## 9081          0.51325682          0.41696109 0.47525230          0.55555556   1
## 9082          0.29570119          0.20744930 0.36194255          0.38888889   1
## 9083          0.37612134          0.39231889 0.42008638          0.50000000   0
## 9084          0.40906499          0.36338958 0.31848035          0.44444444   0
## 9085          0.51508092          0.35143393 0.53804503          0.50000000   1
## 9086          0.54956020          0.51077757 0.42696019          0.44444444   0
## 9087          0.44529203          0.35190766 0.38593100          0.50000000   1
## 9088          0.35507521          0.29180071 0.33141565          0.38888889   1
## 9089          0.60315250          0.55820495 0.45218734          0.55555556   1
## 9090          0.52508791          0.52875387 0.46623022          0.50000000   0
## 9091          0.51486364          0.51321731 0.46827737          0.50000000   0
## 9092          0.54694010          0.52832259 0.62321012          0.72222222   0
## 9093          0.34472156          0.32772762 0.38084515          0.38888889   0
## 9094          0.30775422          0.42773856 0.56795339          0.50000000   0
## 9095          0.54171904          0.62474468 0.51850969          0.55555556   1
## 9096          0.47562594          0.46284444 0.41155703          0.55555556   0
```

```
## 9097              0.41088477          0.43253616 0.43192021          0.38888889    0
## 9098              0.55114316          0.42863796 0.44979844          0.55555556    1
## 9099              0.42163341          0.37260405 0.33267633          0.44444444    0
## 9100              0.47627540          0.47748961 0.53711412          0.27777778    0
## 9101              0.54276018          0.68223656 0.68406085          0.66666667    1
## 9102              0.50967475          0.53424746 0.51446932          0.38888889    1
## 9103              0.51008543          0.57463381 0.53147314          0.66666667    1
## 9104              0.55119584          0.53291334 0.40512716          0.16666667    0
## 9105              0.60548672          0.50062634 0.59817435          0.44444444    1
## 9106              0.44887322          0.45048875 0.46204586          0.50000000    0
## 9107              0.44733167          0.45318930 0.48699091          0.38888889    0
## 9108              0.41396573          0.39184747 0.45331331          0.55555556    1
## 9109              0.64968571          0.68798656 0.59197920          0.50000000    0
## 9110              0.72672755          0.80075855 0.65190124          0.55555556    1
## 9111              0.56647017          0.65552013 0.49410839          0.50000000    1
## 9112              0.52149464          0.52050641 0.46437765          0.38888889    0
## 9113              0.59782580          0.69420843 0.61469544          0.61111111    1
## 9114              0.34198173          0.29335042 0.30692140          0.38888889    0
## 9115              0.42708163          0.41986251 0.53350917          0.66666667    1
## 9116              0.37963797          0.56444929 0.59249155          0.72222222    1
## 9117              0.47485935          0.48558050 0.40139423          0.33333333    0
## 9118              0.53175468          0.55647425 0.60434207          0.61111111    0
## 9119              0.50783977          0.42551044 0.43226278          0.44444444    1
## 9120              0.40737134          0.34958670 0.35163067          0.61111111    1
## 9121              0.42679750          0.51943488 0.41528520          0.55555556    0
## 9122              0.58201216          0.72311285 0.58912423          0.55555556    1
## 9123              0.53784001          0.54054618 0.56763119          0.61111111    1
## 9124              0.58103437          0.55553283 0.45285924          0.55555556    1
## 9125              0.49786884          0.44579632 0.37130075          0.38888889    1
## 9126              0.41491088          0.36835889 0.29128662          0.44444444    0
## 9127              0.29710223          0.18931187 0.34320698          0.38888889    0
## 9128              0.44253230          0.45711795 0.46950466          0.50000000    0
## 9129              0.51418833          0.61109785 0.67473839          0.61111111    1
## 9130              0.35364149          0.29333518 0.24915413          0.38888889    0
## 9131              0.43179400          0.42122493 0.40030785          0.50000000    0
## 9132              0.59211128          0.55280316 0.55808828          0.72222222    1
## 9133              0.57180996          0.60810440 0.67150181          0.44444444    0
## 9134              0.66177728          0.74591803 0.49554781          0.33333333    0
## 9135              0.57719941          0.63282329 0.41491123          0.55555556    0
## 9136              0.50478329          0.50490357 0.54938296          0.50000000    0
## 9137              0.54046847          0.51998321 0.58348692          0.44444444    1
## 9138              0.53661689          0.48456627 0.51603770          0.44444444    1
## 9139              0.38572592          0.40725916 0.53827287          0.77777778    1
## 9140              0.53061886          0.50387128 0.60567281          0.55555556    1
## 9141              0.44815616          0.29670852 0.27844531          0.50000000    0
## 9142              0.58703201          0.59170737 0.56315759          0.33333333    0
## 9143              0.63096955          0.68339908 0.62653303          0.38888889    1
## 9144              0.56575427          0.65807417 0.65064390          0.61111111    1
## 9145              0.43542212          0.38931692 0.32202699          0.33333333    1
## 9146              0.46084839          0.46654686 0.55054969          0.50000000    1
## 9147              0.68042414          0.71353882 0.54886490          0.61111111    0
## 9148              0.52902498          0.59553566 0.60336757          0.33333333    1
## 9149              0.69214421          0.63873182 0.51533942          0.50000000    0
## 9150              0.50647583          0.40875205 0.45123413          0.22222222    1
## 9151              0.63144171          0.59926780 0.54945884          0.55555556    1
## 9152              0.48257374          0.57093132 0.56479194          0.72222222    1
## 9153              0.75952330          0.81556525 0.56304429          0.44444444    1
## 9154              0.54639092          0.48886755 0.51337842          0.66666667    0
```

```
## 9155          0.53477871          0.58864087 0.56911091          0.55555556     1
## 9156          0.37733014          0.40287252 0.39245883          0.50000000     0
## 9157          0.64851823          0.59192945 0.42767153          0.55555556     1
## 9158          0.48598765          0.48364398 0.48336983          0.44444444     1
## 9159          0.40979704          0.47068162 0.46824179          0.50000000     0
## 9160          0.49457040          0.48317709 0.51062520          0.55555556     0
## 9161          0.41301787          0.52056597 0.50891748          0.44444444     1
## 9162          0.61511322          0.68290173 0.58575443          0.61111111     1
## 9163          0.55235232          0.56797372 0.47905489          0.55555556     1
## 9164          0.51595470          0.49510433 0.52383634          0.50000000     1
## 9165          0.43951979          0.35156417 0.42737940          0.50000000     0
## 9166          0.63660852          0.70047113 0.65527105          0.77777778     1
## 9167          0.43932264          0.40599384 0.32734547          0.50000000     0
## 9168          0.43743401          0.41575538 0.40895670          0.44444444     1
## 9169          0.67114964          0.65164058 0.65415218          0.55555556     1
## 9170          0.69363043          0.77005975 0.72337328          0.83333333     1
## 9171          0.53885724          0.52738224 0.61672664          0.72222222     1
## 9172          0.41830171          0.35784076 0.51892447          0.72222222     1
## 9173          0.44793422          0.32606243 0.34903097          0.27777778     0
## 9174          0.20071871          0.19758174 0.31338467          0.33333333     0
## 9175          0.44546073          0.50728173 0.41271710          0.44444444     0
## 9176          0.54646831          0.45226473 0.44239745          0.66666667     0
## 9177          0.61707930          0.71664777 0.69312920          0.61111111     0
## 9178          0.40094098          0.30897711 0.27055659          0.33333333     0
## 9179          0.61497526          0.69394287 0.59642988          0.61111111     1
## 9180          0.43135672          0.44077059 0.47471001          0.55555556     0
## 9181          0.59188324          0.64473653 0.69951808          0.77777778     1
## 9182          0.42487430          0.34770078 0.31924575          0.33333333     0
## 9183          0.61517714          0.59000113 0.62573693          0.61111111     1
## 9184          0.54334233          0.50818391 0.52291977          0.55555556     0
## 9185          0.57608799          0.57151978 0.56859721          0.44444444     0
## 9186          0.53781260          0.60208404 0.46073143          0.44444444     1
## 9187          0.54604982          0.48714047 0.47270098          0.50000000     1
## 9188          0.48035889          0.49440203 0.36592933          0.55555556     0
## 9189          0.47397070          0.43206165 0.31481560          0.27777778     0
## 9190          0.47114958          0.41795638 0.42730892          0.38888889     0
## 9191          0.56700073          0.49701588 0.51611165          0.38888889     0
## 9192          0.42406371          0.27551942 0.38308574          0.50000000     0
## 9193          0.47993416          0.42227098 0.42346459          0.38888889     0
## 9194          0.61027697          0.58993074 0.66633419          0.50000000     1
## 9195          0.45641773          0.42284836 0.61510225          0.61111111     1
## 9196          0.48803238          0.48411557 0.48096232          0.50000000     1
## 9197          0.58205433          0.45090318 0.46338323          0.50000000     0
## 9198          0.58156745          0.49233000 0.37924244          0.33333333     0
## 9199          0.47593286          0.43412409 0.52676643          0.44444444     0
## 9200          0.43143175          0.35685414 0.43395268          0.44444444     0
## 9201          0.53997489          0.51860009 0.45435034          0.38888889     1
## 9202          0.58468155          0.47240064 0.38427664          0.38888889     0
## 9203          0.52792829          0.55987150 0.52621355          0.50000000     0
## 9204          0.55774080          0.54480240 0.47822513          0.61111111     1
## 9205          0.60184866          0.59447700 0.51547101          0.33333333     0
## 9206          0.51745876          0.63887602 0.55821343          0.44444444     1
## 9207          0.58661072          0.53469889 0.55579485          0.50000000     1
## 9208          0.35594463          0.40802199 0.37959432          0.44444444     0
## 9209          0.38047746          0.46911093 0.40898826          0.27777778     0
## 9210          0.62672227          0.83835620 0.56428329          0.50000000     1
## 9211          0.46330735          0.32764869 0.40602852          0.38888889     0
## 9212          0.51948069          0.44686175 0.58437571          0.55555556     1
```

694

```
## 9213        0.51533091        0.54345092 0.48356344        0.27777778   0
## 9214        0.36749992        0.32397196 0.35820020        0.50000000   0
## 9215        0.43495224        0.31541259 0.36894228        0.50000000   0
## 9216        0.50962450        0.55786771 0.56912881        0.55555556   1
## 9217        0.52712025        0.45377443 0.39866237        0.44444444   0
## 9218        0.62722811        0.55833797 0.44963784        0.66666667   0
## 9219        0.35958505        0.39259329 0.47258475        0.77777778   1
## 9220        0.45109194        0.49666454 0.39900058        0.61111111   1
## 9221        0.45956050        0.51353952 0.48667749        0.50000000   1
## 9222        0.48958068        0.37810450 0.42037236        0.33333333   0
## 9223        0.44038488        0.34082306 0.43841283        0.50000000   1
## 9224        0.55991739        0.49794564 0.50640100        0.44444444   1
## 9225        0.47607741        0.46883371 0.43779651        0.50000000   0
## 9226        0.52603328        0.63593430 0.53662547        0.44444444   1
## 9227        0.61146985        0.68483767 0.56991775        0.50000000   0
## 9228        0.44099104        0.45740563 0.50766601        0.38888889   0
## 9229        0.45421430        0.47320580 0.40936152        0.72222222   0
## 9230        0.47990584        0.52221285 0.57028767        0.50000000   0
## 9231        0.48713015        0.56345841 0.45295071        0.38888889   0
## 9232        0.64559013        0.75171334 0.44848926        0.44444444   1
## 9233        0.52213780        0.59196690 0.53395577        0.66666667   1
## 9234        0.45342680        0.42172628 0.41788473        0.55555556   0
## 9235        0.45840340        0.43915750 0.53390557        0.50000000   0
## 9236        0.44052455        0.26227315 0.43296767        0.55555556   0
## 9237        0.54116736        0.61915378 0.52849295        0.50000000   1
## 9238        0.53262425        0.62429596 0.44483985        0.44444444   0
## 9239        0.49975448        0.45240100 0.45361400        0.33333333   0
## 9240        0.64124327        0.71190807 0.80291837        0.83333333   1
## 9241        0.42263806        0.43826142 0.38892895        0.38888889   0
## 9242        0.44652625        0.53818390 0.57414982        0.61111111   1
## 9243        0.58943462        0.63508762 0.51677718        0.38888889   0
## 9244        0.57351137        0.41329833 0.35331679        0.33333333   1
## 9245        0.52985957        0.66144767 0.60315210        0.55555556   0
## 9246        0.38490674        0.30396864 0.27728588        0.27777778   1
## 9247        0.42959123        0.35866580 0.51765466        0.66666667   0
## 9248        0.46031001        0.59327626 0.49061093        0.38888889   0
## 9249        0.39252867        0.24281059 0.36895298        0.50000000   0
## 9250        0.43471511        0.48910509 0.50829218        0.33333333   1
## 9251        0.53717593        0.53788403 0.70928211        0.72222222   1
## 9252        0.34462605        0.35488655 0.37111015        0.50000000   1
## 9253        0.47887047        0.44086812 0.43746194        0.44444444   1
## 9254        0.51870086        0.52918486 0.49037074        0.44444444   0
## 9255        0.51867329        0.51891585 0.62292016        0.50000000   1
## 9256        0.29096286        0.41952398 0.46206788        0.61111111   1
## 9257        0.45978136        0.52608151 0.42531908        0.33333333   0
## 9258        0.49083289        0.47041915 0.63516853        0.66666667   1
## 9259        0.51682602        0.61004086 0.60059779        0.61111111   1
## 9260        0.45234685        0.48291310 0.43370677        0.72222222   1
## 9261        0.54579320        0.53629774 0.53394518        0.61111111   1
## 9262        0.51530094        0.53902927 0.42059954        0.38888889   0
## 9263        0.65365732        0.78201492 0.66965689        0.77777778   1
## 9264        0.52292745        0.52545744 0.51524893        0.66666667   1
## 9265        0.42245787        0.36737980 0.50141966        0.44444444   1
## 9266        0.39399333        0.33520170 0.21765334        0.38888889   0
## 9267        0.28847758        0.41922128 0.28824751        0.44444444   1
## 9268        0.49211064        0.45753931 0.44138944        0.44444444   0
## 9269        0.63858284        0.56723710 0.59957893        0.50000000   1
## 9270        0.45389517        0.53970225 0.63426008        0.61111111   1
```

```
## 9271        0.62458998      0.56066860 0.34276736      0.27777778  1
## 9272        0.62991257      0.65862070 0.53214670      0.44444444  0
## 9273        0.28813509      0.37682577 0.34042872      0.38888889  0
## 9274        0.59372781      0.66247285 0.59180289      0.83333333  1
## 9275        0.50769506      0.50972153 0.51473338      0.55555556  1
## 9276        0.35643872      0.19644219 0.33012844      0.22222222  0
## 9277        0.27445877      0.22461870 0.22812671      0.27777778  0
## 9278        0.49882040      0.52399765 0.47927522      0.50000000  1
## 9279        0.36352848      0.55721236 0.54125956      0.55555556  0
## 9280        0.50512302      0.58145880 0.54003869      0.50000000  1
## 9281        0.40169067      0.41485763 0.48224679      0.44444444  1
## 9282        0.56071624      0.47412683 0.52913566      0.50000000  0
## 9283        0.52894850      0.44637445 0.38724163      0.38888889  1
## 9284        0.43032985      0.37177413 0.33034531      0.38888889  0
## 9285        0.51159718      0.59474985 0.59161490      0.72222222  1
## 9286        0.50210474      0.52532632 0.35139451      0.33333333  0
## 9287        0.59986928      0.71399539 0.63922817      0.66666667  1
## 9288        0.41505669      0.44607515 0.40885519      0.50000000  0
## 9289        0.64583765      0.77207338 0.75009640      0.88888889  1
## 9290        0.51761508      0.64109308 0.69301863      0.66666667  1
## 9291        0.44432990      0.39136887 0.44493768      0.50000000  0
## 9292        0.38939710      0.53111281 0.54413334      0.50000000  1
## 9293        0.63228498      0.49838468 0.50845919      0.55555556  1
## 9294        0.43687754      0.23025632 0.39653854      0.38888889  0
## 9295        0.50759291      0.49213822 0.52406323      0.55555556  0
## 9296        0.26759003      0.35584031 0.24550461      0.33333333  0
## 9297        0.52315695      0.48516202 0.40817602      0.27777778  0
## 9298        0.68969428      0.68926704 0.57572906      0.44444444  0
## 9299        0.46819317      0.48133524 0.35011808      0.61111111  0
## 9300        0.44514606      0.38963318 0.49184191      0.44444444  1
## 9301        0.41071407      0.34853191 0.36816516      0.61111111  0
## 9302        0.37276346      0.42140318 0.39343270      0.27777778  0
## 9303        0.55886298      0.57619692 0.55502300      0.50000000  1
## 9304        0.36110684      0.31709348 0.26389635      0.33333333  0
## 9305        0.81116123      0.77486693 0.80504485      0.77777778  1
## 9306        0.40682578      0.45893189 0.45210164      0.38888889  0
## 9307        0.63421130      0.48919302 0.31128931      0.38888889  0
## 9308        0.69579164      0.82774047 0.62844947      0.61111111  1
## 9309        0.52304692      0.50861279 0.53768491      0.55555556  0
## 9310        0.55808763      0.62237053 0.53473700      0.61111111  0
## 9311        0.37073768      0.26929715 0.35561114      0.50000000  0
## 9312        0.53605072      0.60248799 0.64365058      0.61111111  1
## 9313        0.57083019      0.59364922 0.50837657      0.61111111  0
## 9314        0.46332929      0.54121884 0.46551326      0.33333333  0
## 9315        0.36709980      0.36505845 0.39951270      0.50000000  0
## 9316        0.59902012      0.62386649 0.50799587      0.44444444  1
## 9317        0.57567595      0.69908789 0.65964018      0.66666667  1
## 9318        0.47382245      0.35319528 0.25131224      0.33333333  0
## 9319        0.63679401      0.64526929 0.74263616      0.66666667  1
## 9320        0.52991889      0.64161635 0.54290634      0.55555556  0
## 9321        0.54754187      0.57864691 0.45752782      0.61111111  0
## 9322        0.38147351      0.39076088 0.33240320      0.38888889  0
## 9323        0.48387199      0.44465151 0.42690331      0.44444444  0
## 9324        0.43219897      0.34136828 0.39863101      0.44444444  0
## 9325        0.49899242      0.55144594 0.52177655      0.50000000  0
## 9326        0.49447341      0.50218052 0.37331453      0.55555556  0
## 9327        0.47501142      0.31656912 0.37731235      0.50000000  0
## 9328        0.65397051      0.67731639 0.53169549      0.44444444  1
```

```
## 9329          0.47291417      0.42791835 0.44700572      0.33333333   0
## 9330          0.36016962      0.25913461 0.28585847      0.38888889   0
## 9331          0.66482672      0.75794367 0.52088187      0.55555556   1
## 9332          0.60534435      0.49692603 0.47818089      0.72222222   0
## 9333          0.56111568      0.53557441 0.58506612      0.72222222   1
## 9334          0.45310092      0.42401733 0.36380936      0.38888889   0
## 9335          0.45454823      0.23402583 0.19257046      0.27777778   0
## 9336          0.48412033      0.55669160 0.36792363      0.33333333   0
## 9337          0.54675192      0.58986237 0.58406426      0.44444444   1
## 9338          0.46964443      0.44846430 0.37850599      0.50000000   0
## 9339          0.57796231      0.56270448 0.44768770      0.44444444   0
## 9340          0.38237189      0.35187448 0.33956806      0.61111111   1
## 9341          0.27660784      0.20631044 0.39134318      0.38888889   0
## 9342          0.51756175      0.47254791 0.37652419      0.38888889   0
## 9343          0.46126304      0.40940201 0.41984068      0.44444444   0
## 9344          0.59468876      0.55395144 0.55414224      0.50000000   1
## 9345          0.47875625      0.42927222 0.40767940      0.61111111   1
## 9346          0.45095393      0.42520221 0.61438952      0.55555556   1
## 9347          0.46667243      0.41724178 0.42804380      0.44444444   0
## 9348          0.55138838      0.57273901 0.65873961      0.55555556   1
## 9349          0.48287033      0.48357893 0.48295080      0.55555556   0
## 9350          0.39001779      0.40400549 0.44785052      0.50000000   0
## 9351          0.32284649      0.37072312 0.28161859      0.33333333   0
## 9352          0.38672517      0.37892781 0.43649988      0.33333333   0
## 9353          0.73135259      0.53154415 0.44874418      0.38888889   1
## 9354          0.49350127      0.39867748 0.43324042      0.44444444   0
## 9355          0.43988715      0.54823531 0.39691173      0.33333333   0
## 9356          0.39876885      0.32333943 0.32845808      0.38888889   1
## 9357          0.52727382      0.52463422 0.48707685      0.44444444   0
## 9358          0.57196102      0.53329043 0.50603159      0.55555556   1
## 9359          0.44573024      0.38718081 0.35612361      0.44444444   1
## 9360          0.37861032      0.38459075 0.39456830      0.22222222   1
## 9361          0.58359713      0.42784285 0.44457375      0.55555556   1
## 9362          0.54751388      0.49818389 0.49593809      0.27777778   0
## 9363          0.51396085      0.45994569 0.42123304      0.55555556   0
## 9364          0.44476140      0.47724638 0.32743824      0.27777778   0
## 9365          0.54499816      0.57656050 0.63200792      0.50000000   1
## 9366          0.44414358      0.30057611 0.53075294      0.33333333   0
## 9367          0.51303633      0.54833696 0.42559094      0.33333333   0
## 9368          0.49736237      0.45831261 0.47853042      0.50000000   0
## 9369          0.46748505      0.62668014 0.48317067      0.83333333   0
## 9370          0.62350234      0.62914427 0.78274038      0.72222222   0
## 9371          0.53614108      0.49327700 0.41897197      0.50000000   1
## 9372          0.49350575      0.55190387 0.45205274      0.33333333   0
## 9373          0.44087981      0.25130511 0.36327210      0.38888889   1
## 9374          0.59496807      0.64689662 0.53863813      0.33333333   1
## 9375          0.47640790      0.40502580 0.45316069      0.44444444   1
## 9376          0.44725849      0.37733301 0.41934424      0.38888889   0
## 9377          0.53951784      0.56871980 0.56206063      0.55555556   1
## 9378          0.50999880      0.54630954 0.50371876      0.44444444   0
## 9379          0.36086240      0.48648642 0.50549785      0.50000000   0
## 9380          0.40079661      0.26011135 0.43488685      0.38888889   1
## 9381          0.39219075      0.41293882 0.57280957      0.50000000   0
## 9382          0.71504941      0.84011407 0.71783080      0.77777778   1
## 9383          0.48826629      0.49715628 0.36882603      0.61111111   0
## 9384          0.45051553      0.44802803 0.36418403      0.38888889   0
## 9385          0.57029649      0.69324964 0.58558060      0.44444444   1
## 9386          0.31518449      0.38322797 0.42606615      0.44444444   1
```

```
## 9387         0.31935630        0.47331704 0.64947288    0.72222222   1
## 9388         0.59408893        0.57122247 0.41310633    0.50000000   1
## 9389         0.38063556        0.29525505 0.36970297    0.27777778   1
## 9390         0.62197303        0.55469047 0.57971455    0.55555556   1
## 9391         0.32473440        0.25868953 0.37516251    0.55555556   0
## 9392         0.51224662        0.65860802 0.62317588    0.66666667   1
## 9393         0.73855366        0.83307500 0.73322156    0.61111111   1
## 9394         0.50159321        0.54091715 0.47478663    0.38888889   0
## 9395         0.36423391        0.27454398 0.29403218    0.27777778   0
## 9396         0.46625635        0.58618316 0.62928427    0.72222222   1
## 9397         0.47057144        0.45728040 0.45650339    0.55555556   1
## 9398         0.43198061        0.47350539 0.47876588    0.44444444   1
## 9399         0.53736767        0.47988306 0.45129663    0.66666667   0
## 9400         0.46422240        0.36114132 0.42380673    0.55555556   0
## 9401         0.50002461        0.44350142 0.48538770    0.55555556   1
## 9402         0.50155753        0.52740308 0.51320171    0.50000000   1
## 9403         0.55854439        0.61611824 0.73871881    0.66666667   1
## 9404         0.57519133        0.44220761 0.30870091    0.16666667   1
## 9405         0.62016961        0.61295058 0.48325844    0.50000000   1
## 9406         0.55090054        0.66538991 0.72395225    0.72222222   1
## 9407         0.47474939        0.52499013 0.41863027    0.55555556   0
## 9408         0.33379970        0.28257959 0.32076813    0.38888889   1
## 9409         0.47557204        0.57237682 0.56662932    0.66666667   1
## 9410         0.52951985        0.56363240 0.51607756    0.44444444   1
## 9411         0.45772132        0.34923216 0.39818479    0.44444444   0
## 9412         0.56528876        0.57656934 0.64276590    0.66666667   0
## 9413         0.48163264        0.53882052 0.63032419    0.55555556   1
## 9414         0.40092489        0.28002973 0.28468272    0.38888889   0
## 9415         0.33815364        0.33023145 0.32846577    0.44444444   0
## 9416         0.47637248        0.36939273 0.45307541    0.44444444   1
## 9417         0.47347419        0.57107403 0.58248207    0.55555556   0
## 9418         0.60806909        0.50547006 0.55107014    0.50000000   0
## 9419         0.41618149        0.43056243 0.46841181    0.50000000   0
## 9420         0.60632473        0.49784541 0.47073822    0.50000000   0
## 9421         0.45288844        0.50800749 0.42294666    0.72222222   0
## 9422         0.50719895        0.46712856 0.51129969    0.61111111   1
## 9423         0.29136976        0.39612899 0.29494544    0.27777778   0
## 9424         0.49102713        0.42600227 0.54499964    0.61111111   0
## 9425         0.52586944        0.50861083 0.52986893    0.55555556   0
## 9426         0.63389967        0.46893057 0.49441867    0.44444444   0
## 9427         0.53748565        0.33191639 0.45250015    0.61111111   0
## 9428         0.47089323        0.52673807 0.45177452    0.55555556   0
## 9429         0.40396688        0.48737454 0.47208255    0.33333333   1
## 9430         0.43041622        0.48796844 0.37949918    0.38888889   0
## 9431         0.47515245        0.39550861 0.40284884    0.50000000   0
## 9432         0.45938813        0.43727775 0.46310038    0.38888889   1
## 9433         0.42190987        0.46528738 0.49041709    0.55555556   0
## 9434         0.48905281        0.42792324 0.33651632    0.38888889   0
## 9435         0.50307710        0.59029378 0.48961149    0.61111111   1
## 9436         0.42643597        0.45495937 0.48508647    0.72222222   0
## 9437         0.38829653        0.52659061 0.55196274    0.44444444   1
## 9438         0.67859875        0.54603020 0.58811914    0.77777778   1
## 9439         0.54700885        0.54003620 0.57373127    0.66666667   1
## 9440         0.34286030        0.39479498 0.24004194    0.22222222   0
## 9441         0.56345238        0.60907069 0.47939105    0.55555556   0
## 9442         0.59100904        0.53612862 0.50143183    0.44444444   0
## 9443         0.47418109        0.41504569 0.51508015    0.72222222   1
## 9444         0.42958039        0.45502209 0.45051281    0.50000000   1
```

698

```
## 9445         0.55681699       0.39168664 0.50985130    0.50000000   0
## 9446         0.43893838       0.52641785 0.49066730    0.44444444   0
## 9447         0.61152389       0.45560540 0.56265596    0.61111111   1
## 9448         0.44512778       0.44401278 0.40376532    0.50000000   0
## 9449         0.61927942       0.59824309 0.43733934    0.33333333   0
## 9450         0.52297668       0.58903321 0.49960796    0.33333333   0
## 9451         0.56448516       0.62754099 0.53019517    0.72222222   1
## 9452         0.36237750       0.43322460 0.40728870    0.50000000   0
## 9453         0.44618110       0.48412277 0.49274866    0.44444444   1
## 9454         0.53993265       0.70566678 0.51090340    0.61111111   0
## 9455         0.47272755       0.38324756 0.44533609    0.33333333   1
## 9456         0.54949351       0.47544286 0.43976319    0.55555556   0
## 9457         0.50485296       0.60538231 0.59859106    0.55555556   1
## 9458         0.59258306       0.54211159 0.53530536    0.61111111   1
## 9459         0.57151598       0.57371225 0.47198969    0.50000000   1
## 9460         0.58558875       0.53496104 0.45766007    0.38888889   1
## 9461         0.63265807       0.56601414 0.49323842    0.38888889   1
## 9462         0.37349633       0.30178667 0.38307511    0.33333333   0
## 9463         0.54249771       0.46563804 0.52815343    0.61111111   0
## 9464         0.52002236       0.65030612 0.58510350    0.38888889   1
## 9465         0.48159491       0.50787144 0.50758605    0.61111111   1
## 9466         0.54805221       0.56414742 0.52658088    0.55555556   1
## 9467         0.62395512       0.60303427 0.51354125    0.61111111   1
## 9468         0.52266271       0.57242368 0.59293418    0.44444444   1
## 9469         0.53621910       0.46618466 0.47306215    0.55555556   1
## 9470         0.58335240       0.49020049 0.42171825    0.55555556   1
## 9471         0.38104064       0.26788011 0.15738196    0.22222222   0
## 9472         0.39641532       0.44757260 0.43797003    0.27777778   0
## 9473         0.46498980       0.40616991 0.66298303    0.66666667   1
## 9474         0.45039386       0.43178682 0.49608148    0.55555556   1
## 9475         0.48745674       0.54084373 0.65857519    0.61111111   1
## 9476         0.50400140       0.49893131 0.48041193    0.50000000   0
## 9477         0.26676941       0.27463855 0.23832720    0.22222222   0
## 9478         0.64173145       0.62915393 0.57044187    0.50000000   1
## 9479         0.65575099       0.70356403 0.65760524    0.83333333   1
## 9480         0.57188944       0.54188065 0.46145405    0.33333333   1
## 9481         0.61355808       0.61890164 0.59503112    0.55555556   0
## 9482         0.52320821       0.60869732 0.67456644    0.55555556   1
## 9483         0.50796035       0.47745467 0.39427069    0.50000000   0
## 9484         0.60391734       0.63741921 0.65517456    0.61111111   1
## 9485         0.39422680       0.31835543 0.23820822    0.22222222   0
## 9486         0.56861352       0.52549214 0.57342247    0.61111111   1
## 9487         0.35261578       0.44928075 0.59833793    0.66666667   1
## 9488         0.67041683       0.67983512 0.60211595    0.66666667   1
## 9489         0.39211192       0.30311974 0.40615970    0.22222222   0
## 9490         0.52304750       0.43670734 0.62694255    0.55555556   1
## 9491         0.48163706       0.60007987 0.58631357    0.72222222   1
## 9492         0.49634098       0.37980751 0.47724475    0.61111111   0
## 9493         0.68184607       0.58830041 0.32415651    0.38888889   0
## 9494         0.54590789       0.54442401 0.44613808    0.61111111   1
## 9495         0.49047741       0.48111639 0.56547994    0.50000000   1
## 9496         0.60432702       0.54761301 0.55750245    0.50000000   0
## 9497         0.24780375       0.31348230 0.23368990    0.27777778   0
## 9498         0.38145883       0.31717558 0.34318235    0.38888889   0
## 9499         0.71320035       0.61835095 0.66168036    0.61111111   1
## 9500         0.64266670       0.51417883 0.44596588    0.38888889   1
## 9501         0.48715468       0.52312648 0.47772935    0.50000000   1
## 9502         0.37703539       0.27479496 0.31890165    0.16666667   0
```

```
## 9503         0.57891683        0.55814389 0.49556390        0.44444444    0
## 9504         0.55353120        0.65004836 0.54459574        0.50000000    1
## 9505         0.52749276        0.46358707 0.66463146        0.66666667    1
## 9506         0.45753482        0.37722474 0.43102209        0.33333333    0
## 9507         0.43424317        0.41478750 0.38144041        0.38888889    0
## 9508         0.35422242        0.38652993 0.49436029        0.55555556    1
## 9509         0.55923285        0.52769769 0.55639486        0.55555556    1
## 9510         0.40485238        0.37717185 0.51123285        0.61111111    0
## 9511         0.24792475        0.16506527 0.18285466        0.33333333    0
## 9512         0.78470318        0.80719149 0.66365430        0.77777778    1
## 9513         0.53983413        0.41501734 0.47360802        0.33333333    1
## 9514         0.41875033        0.55679353 0.57192478        0.55555556    0
## 9515         0.54446649        0.55664612 0.61380559        0.83333333    1
## 9516         0.42499559        0.55273942 0.50437824        0.55555556    1
## 9517         0.47147275        0.51496919 0.42142363        0.38888889    0
## 9518         0.66280935        0.55295410 0.27874784        0.33333333    0
## 9519         0.51377700        0.39058023 0.26681852        0.33333333    0
## 9520         0.55801314        0.64804323 0.67614209        0.61111111    1
## 9521         0.38709062        0.17765889 0.32132565        0.27777778    1
## 9522         0.52929820        0.47168920 0.48725157        0.50000000    1
## 9523         0.59903074        0.53860863 0.45851069        0.66666667    1
## 9524         0.40310300        0.26776688 0.25177298        0.44444444    0
## 9525         0.43279236        0.35626892 0.27544832        0.38888889    0
## 9526         0.47729618        0.50682102 0.39832974        0.38888889    0
## 9527         0.60858288        0.63086501 0.63115558        0.61111111    0
## 9528         0.52972383        0.51057598 0.55465366        0.50000000    1
## 9529         0.54541352        0.58967329 0.57698171        0.66666667    0
## 9530         0.63234854        0.59328165 0.52115134        0.50000000    1
## 9531         0.51849161        0.62296700 0.65748101        0.61111111    1
## 9532         0.55279140        0.66061719 0.62968431        0.72222222    1
## 9533         0.48749357        0.55099827 0.48779400        0.61111111    1
## 9534         0.49634478        0.36597441 0.40617616        0.44444444    0
## 9535         0.54796984        0.51944139 0.55828352        0.50000000    1
## 9536         0.49927719        0.49036058 0.44047626        0.61111111    1
## 9537         0.33769017        0.35648096 0.21107904        0.38888889    1
## 9538         0.61561102        0.60162411 0.62758250        0.55555556    1
## 9539         0.53438344        0.58887732 0.57606842        0.77777778    1
## 9540         0.31860094        0.25440374 0.38631786        0.44444444    0
## 9541         0.57131681        0.62301836 0.46692573        0.44444444    1
## 9542         0.48756908        0.39285170 0.36894056        0.50000000    0
## 9543         0.60599975        0.54226763 0.46703625        0.50000000    1
## 9544         0.61212693        0.59118120 0.68765830        0.72222222    1
## 9545         0.43162607        0.31365881 0.37157064        0.44444444    0
## 9546         0.59572662        0.46817136 0.47066343        0.61111111    0
## 9547         0.27524285        0.34332510 0.35060676        0.27777778    1
## 9548         0.59208137        0.45735360 0.31161229        0.27777778    0
## 9549         0.51056520        0.48139359 0.35183668        0.44444444    1
## 9550         0.49426839        0.46721888 0.56034663        0.50000000    1
## 9551         0.57854555        0.69904520 0.75821720        0.66666667    1
## 9552         0.40675032        0.31822252 0.31859802        0.38888889    0
## 9553         0.66727922        0.73277737 0.66149819        0.66666667    1
## 9554         0.56581070        0.51963466 0.51788496        0.50000000    1
## 9555         0.53763135        0.56707782 0.51078947        0.61111111    0
## 9556         0.46516723        0.38411287 0.35203000        0.55555556    0
## 9557         0.63935670        0.75959651 0.51716844        0.55555556    1
## 9558         0.47606610        0.44912273 0.45863796        0.38888889    0
## 9559         0.42517954        0.41611761 0.40729487        0.38888889    0
## 9560         0.41346822        0.42960701 0.36442194        0.55555556    0
```

## 9561	0.53825046	0.62683680	0.53740981	0.33333333	0
## 9562	0.44819157	0.45113013	0.51380249	0.61111111	1
## 9563	0.34968606	0.25170269	0.27329278	0.33333333	0
## 9564	0.69400430	0.81066108	0.63862360	0.66666667	1
## 9565	0.66168619	0.54744300	0.63943899	0.66666667	1
## 9566	0.35853747	0.22172340	0.20292208	0.22222222	0
## 9567	0.49256273	0.52519266	0.59381484	0.61111111	1
## 9568	0.53178289	0.43267688	0.37642216	0.50000000	0
## 9569	0.47841522	0.54823521	0.36299621	0.50000000	0
## 9570	0.53248475	0.55888433	0.56243280	0.55555556	1
## 9571	0.51647309	0.49781616	0.41184561	0.61111111	0
## 9572	0.69177813	0.68760181	0.63536464	0.66666667	1
## 9573	0.34660275	0.25959317	0.47507862	0.50000000	0
## 9574	0.64827332	0.66087480	0.71250448	0.72222222	0
## 9575	0.55608232	0.57179718	0.60673461	0.61111111	1
## 9576	0.45237560	0.49517914	0.36948997	0.50000000	1
## 9577	0.57748173	0.63792084	0.56791845	0.61111111	1
## 9578	0.34747620	0.29883381	0.41636756	0.33333333	0
## 9579	0.58039947	0.56788041	0.65509877	0.50000000	1
## 9580	0.47237588	0.50129087	0.38605904	0.44444444	0
## 9581	0.42127546	0.42420426	0.51415942	0.50000000	1
## 9582	0.47465728	0.35181039	0.47524222	0.38888889	0
## 9583	0.63214715	0.85176899	0.62305232	0.66666667	1
## 9584	0.48974505	0.41389446	0.39816566	0.50000000	1
## 9585	0.46176499	0.51393982	0.56946762	0.77777778	1
## 9586	0.52125940	0.53312222	0.44918125	0.55555556	1
## 9587	0.54453317	0.44022108	0.40541792	0.38888889	1
## 9588	0.33390820	0.39780858	0.36819732	0.38888889	0
## 9589	0.46002889	0.48090204	0.56671657	0.44444444	1
## 9590	0.56513429	0.59559229	0.58338938	0.66666667	1
## 9591	0.71293334	0.65439609	0.51014039	0.61111111	0
## 9592	0.63935334	0.59357426	0.60303678	0.61111111	1
## 9593	0.53666576	0.57690314	0.48963588	0.61111111	0
## 9594	0.74377885	0.73869843	0.39517304	0.33333333	1
## 9595	0.34563330	0.44471654	0.41615174	0.44444444	1
## 9596	0.66295063	0.55529291	0.51494066	0.66666667	0
## 9597	0.55027962	0.61933878	0.56948796	0.44444444	0
## 9598	0.42384662	0.43523377	0.53426286	0.55555556	0
## 9599	0.49729391	0.58423690	0.45841333	0.66666667	1
## 9600	0.47057908	0.54753582	0.51698490	0.66666667	1
## 9601	0.41216663	0.42836424	0.28204423	0.38888889	0
## 9602	0.53437590	0.54564923	0.48508647	0.61111111	1
## 9603	0.56064434	0.54337168	0.37103807	0.38888889	0
## 9604	0.53964335	0.57439361	0.39659085	0.44444444	0
## 9605	0.55576781	0.68328431	0.56783303	0.44444444	0
## 9606	0.62339091	0.77288997	0.59122915	0.61111111	1
## 9607	0.60088353	0.49537721	0.46537071	0.55555556	0
## 9608	0.52973871	0.62215078	0.58863174	0.66666667	0
## 9609	0.44094033	0.41007768	0.39055680	0.50000000	0
## 9610	0.31448798	0.41238459	0.38707183	0.27777778	0
## 9611	0.66695917	0.63574248	0.61273054	0.72222222	1
## 9612	0.59625493	0.51306744	0.53370173	0.44444444	1
## 9613	0.76258070	0.62624010	0.49398699	0.61111111	1
## 9614	0.46524149	0.50489083	0.40321603	0.61111111	0
## 9615	0.63561068	0.63242388	0.66372716	0.55555556	0
## 9616	0.69089687	0.75851263	0.45329957	0.44444444	1
## 9617	0.41061898	0.39359575	0.51382076	0.50000000	1
## 9618	0.49108032	0.49675055	0.51981166	0.50000000	1

```
## 9619           0.58231593        0.53160346 0.52014555    0.61111111    1
## 9620           0.71657217        0.63672275 0.62278532    0.66666667    1
## 9621           0.45777926        0.48322604 0.49447166    0.33333333    1
## 9622           0.42874378        0.38181486 0.40346601    0.27777778    1
## 9623           0.41216732        0.27485215 0.43376810    0.55555556    0
## 9624           0.49335916        0.48511286 0.53980364    0.44444444    1
## 9625           0.45644477        0.53329164 0.49030292    0.44444444    0
## 9626           0.44767143        0.32392420 0.38003732    0.44444444    1
## 9627           0.40738534        0.40510125 0.46265979    0.33333333    0
## 9628           0.64411972        0.57320933 0.57280728    0.61111111    0
## 9629           0.70334667        0.56180072 0.37454426    0.50000000    0
## 9630           0.50407492        0.54399067 0.58490097    0.55555556    0
## 9631           0.58203306        0.44171839 0.48940469    0.55555556    0
## 9632           0.60294045        0.61657696 0.40606441    0.44444444    1
## 9633           0.51507372        0.49622148 0.40755960    0.33333333    0
## 9634           0.33968293        0.20026369 0.41185531    0.38888889    0
## 9635           0.39452744        0.41542417 0.52784938    0.38888889    1
## 9636           0.40533643        0.53329108 0.56124012    0.61111111    1
## 9637           0.62023366        0.75520806 0.46705682    0.50000000    0
## 9638           0.43996391        0.42634693 0.59425625    0.66666667    1
## 9639           0.49520515        0.34308234 0.30516975    0.33333333    0
## 9640           0.33210449        0.35862428 0.47828306    0.44444444    0
## 9641           0.58209089        0.49180909 0.56248105    0.61111111    0
## 9642           0.42640230        0.36408914 0.44216121    0.50000000    0
## 9643           0.54222911        0.50226810 0.52728722    0.66666667    1
## 9644           0.48966545        0.58444749 0.54886557    0.61111111    0
## 9645           0.40251323        0.39216628 0.46965305    0.50000000    1
## 9646           0.49345645        0.50099159 0.56223502    0.38888889    1
## 9647           0.49117351        0.64701384 0.59717763    0.55555556    0
## 9648           0.68606970        0.54345819 0.45438869    0.55555556    1
## 9649           0.49669762        0.40460097 0.55124635    0.72222222    1
## 9650           0.53303662        0.60300015 0.41690330    0.33333333    0
## 9651           0.46086003        0.45112918 0.41335384    0.27777778    0
## 9652           0.54296958        0.53194598 0.46820617    0.50000000    1
## 9653           0.63498484        0.58943187 0.31311451    0.33333333    0
## 9654           0.43057815        0.50749835 0.45325505    0.55555556    0
## 9655           0.62818620        0.47202232 0.46799730    0.44444444    0
## 9656           0.43499304        0.40337895 0.40575859    0.55555556    0
## 9657           0.63704379        0.63333801 0.42050098    0.38888889    0
## 9658           0.41689934        0.39728469 0.44562642    0.55555556    0
## 9659           0.77010845        0.73121923 0.51775802    0.50000000    0
## 9660           0.60606711        0.64618085 0.55802177    0.55555556    0
## 9661           0.61229519        0.67946216 0.70059321    0.61111111    1
## 9662           0.66047524        0.61575950 0.59178802    0.72222222    1
## 9663           0.51032394        0.48912035 0.52466539    0.61111111    0
## 9664           0.62691016        0.58898529 0.44479156    0.44444444    0
## 9665           0.54091609        0.48694127 0.61494618    0.61111111    0
## 9666           0.68209204        0.79329073 0.55891556    0.55555556    1
## 9667           0.47815301        0.37716780 0.42758436    0.27777778    1
## 9668           0.42620628        0.44942641 0.49784203    0.55555556    1
## 9669           0.50909181        0.43748773 0.51127311    0.55555556    1
## 9670           0.43089256        0.35359692 0.41387271    0.38888889    1
## 9671           0.44353452        0.35906814 0.37783013    0.27777778    0
## 9672           0.56881729        0.55448864 0.49292789    0.61111111    1
## 9673           0.34829629        0.19153229 0.42012574    0.38888889    0
## 9674           0.40622730        0.48928890 0.49774669    0.44444444    0
## 9675           0.50138406        0.23798485 0.34151118    0.38888889    0
## 9676           0.58555218        0.70479706 0.48750658    0.44444444    1
```

## 9677	0.57940104	0.72438555	0.51606880	0.50000000	0
## 9678	0.45849169	0.42526803	0.50110489	0.55555556	0
## 9679	0.53687793	0.58360931	0.61522013	0.61111111	1
## 9680	0.64557286	0.57352102	0.48646134	0.50000000	1
## 9681	0.47738064	0.41533433	0.50747397	0.38888889	0
## 9682	0.42521422	0.52907453	0.52469747	0.50000000	0
## 9683	0.23276698	0.38203781	0.40109985	0.38888889	1
## 9684	0.37759124	0.39365623	0.33169086	0.33333333	0
## 9685	0.58381306	0.68166254	0.47466269	0.61111111	0
## 9686	0.51374378	0.64651593	0.57822063	0.61111111	0
## 9687	0.57642511	0.61763084	0.48585521	0.50000000	1
## 9688	0.45926703	0.56051116	0.56227076	0.44444444	0
## 9689	0.57800121	0.48774780	0.51449702	0.44444444	0
## 9690	0.89023283	0.61957594	0.48051737	0.55555556	1
## 9691	0.63244039	0.71053565	0.69551032	0.66666667	1
## 9692	0.52976092	0.61625515	0.57539080	0.44444444	1
## 9693	0.45144719	0.58254490	0.50534283	0.55555556	1
## 9694	0.57278372	0.56604177	0.56077049	0.44444444	0
## 9695	0.42642034	0.44646052	0.31041600	0.55555556	1
## 9696	0.53624118	0.54805302	0.54530808	0.66666667	0
## 9697	0.29144071	0.27080490	0.50398356	0.33333333	0
## 9698	0.46721477	0.43077466	0.43617689	0.44444444	1
## 9699	0.54963080	0.41936859	0.46577331	0.55555556	1
## 9700	0.31669108	0.39504004	0.30037804	0.38888889	0
## 9701	0.34747636	0.34012158	0.39782831	0.33333333	0
## 9702	0.53549141	0.54145978	0.39765456	0.50000000	0
## 9703	0.61883835	0.52371820	0.51630575	0.66666667	0
## 9704	0.37971556	0.43715877	0.37472620	0.27777778	0
## 9705	0.47511992	0.50941292	0.42256634	0.50000000	0
## 9706	0.41843513	0.59152814	0.61292634	0.61111111	1
## 9707	0.43541297	0.46862928	0.51113036	0.50000000	1
## 9708	0.49494046	0.46571298	0.48140350	0.55555556	0
## 9709	0.71825152	0.61027732	0.44056259	0.38888889	1
## 9710	0.58701540	0.69920369	0.57497989	0.72222222	0
## 9711	0.39444758	0.53159945	0.48508647	0.44444444	1
## 9712	0.46985968	0.39257904	0.44764652	0.50000000	0
## 9713	0.45145488	0.48812124	0.38336906	0.44444444	0
## 9714	0.45763118	0.38754857	0.37790427	0.38888889	1
## 9715	0.58896456	0.59643595	0.52779483	0.77777778	1
## 9716	0.59274957	0.47514940	0.46447935	0.50000000	0
## 9717	0.48545575	0.47747014	0.49651510	0.38888889	0
## 9718	0.34471860	0.23094275	0.30412873	0.27777778	0
## 9719	0.40671228	0.47408382	0.66850532	0.50000000	1
## 9720	0.58664816	0.57089713	0.46780789	0.44444444	0
## 9721	0.44818700	0.50538086	0.53843972	0.66666667	1
## 9722	0.43079747	0.31862350	0.33332455	0.33333333	0
## 9723	0.49796765	0.52391896	0.53197106	0.50000000	1
## 9724	0.45205592	0.51966587	0.43706391	0.38888889	1
## 9725	0.59427887	0.56148364	0.53794442	0.66666667	0
## 9726	0.45425018	0.45057891	0.48835362	0.55555556	1
## 9727	0.46541202	0.49380679	0.46507439	0.61111111	1
## 9728	0.65211445	0.68590638	0.58767598	0.61111111	0
## 9729	0.49436560	0.44721280	0.35644420	0.38888889	0
## 9730	0.60919105	0.66752509	0.58647315	0.83333333	1
## 9731	0.56430787	0.63157940	0.50338704	0.61111111	1
## 9732	0.37869906	0.46558231	0.36082234	0.38888889	0
## 9733	0.53308103	0.55028692	0.66157064	0.72222222	1
## 9734	0.45513320	0.53123996	0.46827451	0.61111111	1

```
## 9735          0.52636235          0.62909467 0.56763298          0.61111111   0
## 9736          0.51090345          0.58866979 0.56111347          0.61111111   1
## 9737          0.30373654          0.20606122 0.35386169          0.50000000   0
## 9738          0.57330088          0.53643838 0.57168855          0.50000000   0
## 9739          0.31165980          0.40788071 0.43081269          0.38888889   0
## 9740          0.54195957          0.52100639 0.44459042          0.44444444   0
## 9741          0.48669344          0.55372105 0.54345474          0.66666667   1
## 9742          0.60001912          0.62355326 0.49964316          0.44444444   0
## 9743          0.57160832          0.56051287 0.51719089          0.44444444   1
## 9744          0.50188178          0.39162326 0.35339627          0.55555556   0
## 9745          0.58584003          0.48796485 0.49773590          0.44444444   0
## 9746          0.54106271          0.42363719 0.43847342          0.50000000   1
## 9747          0.36777659          0.37177445 0.36492208          0.33333333   0
## 9748          0.53816170          0.66782379 0.57578658          0.50000000   1
## 9749          0.52757635          0.51305785 0.41150776          0.50000000   0
## 9750          0.50733905          0.40512414 0.50678180          0.38888889   0
## 9751          0.48575135          0.40941608 0.47699374          0.44444444   1
## 9752          0.39972112          0.32403980 0.37723429          0.50000000   1
## 9753          0.56883014          0.54277390 0.54483488          0.55555556   0
## 9754          0.71644044          0.78254928 0.62509207          0.50000000   1
## 9755          0.50606317          0.39991864 0.39308695          0.55555556   1
## 9756          0.58550205          0.56351041 0.53375043          0.38888889   0
## 9757          0.33333698          0.36538790 0.53318554          0.44444444   1
## 9758          0.48293272          0.37034291 0.41520615          0.66666667   1
## 9759          0.55015571          0.59204126 0.56598530          0.66666667   0
## 9760          0.38099028          0.57859405 0.57313257          0.61111111   0
## 9761          0.53367453          0.55156046 0.54456259          0.50000000   1
## 9762          0.48019119          0.53820408 0.63445428          0.66666667   1
## 9763          0.43204289          0.26742568 0.42016225          0.38888889   1
## 9764          0.33411736          0.44728865 0.43500207          0.38888889   0
## 9765          0.56300997          0.48771940 0.49960849          0.55555556   1
## 9766          0.41724306          0.31653051 0.34997583          0.27777778   1
## 9767          0.48764294          0.51661279 0.42051506          0.11111111   1
## 9768          0.50541610          0.46884332 0.44298847          0.33333333   0
## 9769          0.49977142          0.37373039 0.36317536          0.38888889   1
## 9770          0.49121591          0.49217938 0.54265115          0.55555556   1
## 9771          0.47068389          0.51460771 0.43904929          0.50000000   0
## 9772          0.50953595          0.67189191 0.60391171          0.61111111   1
## 9773          0.46841978          0.47568797 0.45576806          0.50000000   0
## 9774          0.43818504          0.35038497 0.37051761          0.27777778   1
## 9775          0.50400407          0.49002849 0.52854604          0.66666667   1
## 9776          0.36695807          0.43806626 0.47632518          0.50000000   0
## 9777          0.50950809          0.41697429 0.42194977          0.50000000   0
## 9778          0.59272709          0.53191053 0.45002984          0.33333333   1
## 9779          0.54022670          0.58749898 0.56861224          0.55555556   0
## 9780          0.56002322          0.56044344 0.44668011          0.38888889   1
## 9781          0.57409080          0.63596509 0.52681270          0.61111111   1
## 9782          0.60749910          0.44436002 0.46846389          0.55555556   0
## 9783          0.26236468          0.29219208 0.36696391          0.27777778   0
## 9784          0.46051708          0.55252803 0.44244151          0.50000000   0
## 9785          0.76562793          0.75439939 0.44636108          0.27777778   0
## 9786          0.51779404          0.59108046 0.53610434          0.61111111   0
## 9787          0.41211003          0.37843791 0.38402667          0.27777778   0
## 9788          0.42533018          0.51907194 0.56003499          0.61111111   1
## 9789          0.62862721          0.54164113 0.52668435          0.61111111   1
## 9790          0.53289346          0.48674761 0.37247245          0.55555556   0
## 9791          0.48630619          0.50143507 0.50862897          0.77777778   1
## 9792          0.59475803          0.56788739 0.54145199          0.72222222   1
```

## 9793	0.57200770	0.68767379	0.69930899	0.66666667	1
## 9794	0.37572566	0.40550170	0.41162935	0.38888889	0
## 9795	0.56672518	0.46346106	0.51194460	0.44444444	1
## 9796	0.26802200	0.35732453	0.42418703	0.33333333	1
## 9797	0.60103918	0.62179569	0.44624192	0.50000000	0
## 9798	0.42511064	0.47045677	0.46011162	0.55555556	1
## 9799	0.56633364	0.59440819	0.57040291	0.61111111	0
## 9800	0.60302679	0.65986013	0.62809978	0.38888889	1
## 9801	0.53347211	0.67223453	0.63942387	0.66666667	1
## 9802	0.50853533	0.60120041	0.57848477	0.66666667	0
## 9803	0.53823667	0.48208078	0.48901372	0.61111111	0
## 9804	0.46461156	0.38206594	0.40882645	0.55555556	1
## 9805	0.53028462	0.30703945	0.31219547	0.27777778	1
## 9806	0.35218077	0.20381229	0.44107551	0.27777778	0
## 9807	0.55183329	0.54004339	0.56291963	0.50000000	1
## 9808	0.53327504	0.68010112	0.58049685	0.50000000	1
## 9809	0.46424082	0.40523234	0.31913774	0.38888889	1
## 9810	0.41952192	0.49610505	0.49955530	0.44444444	0
## 9811	0.57736479	0.53310536	0.62459742	0.50000000	1
## 9812	0.47822274	0.32267385	0.30220475	0.38888889	0
## 9813	0.53378137	0.71980775	0.59565337	0.55555556	1
## 9814	0.58934734	0.62348249	0.53583861	0.61111111	0
## 9815	0.43904960	0.68983945	0.57826572	0.66666667	0
## 9816	0.65846777	0.76453286	0.54243311	0.44444444	1
## 9817	0.49297639	0.42590673	0.50674154	0.55555556	0
## 9818	0.46266938	0.39709506	0.47380532	0.50000000	0
## 9819	0.63287110	0.74090049	0.58760608	0.61111111	0
## 9820	0.49016032	0.69174038	0.64802672	0.61111111	1
## 9821	0.51526239	0.46111398	0.35711656	0.44444444	1
## 9822	0.72325885	0.83418200	0.63606312	0.66666667	1
## 9823	0.40082022	0.32392983	0.35946647	0.33333333	0
## 9824	0.47747833	0.51524679	0.56986927	0.50000000	1
## 9825	0.47001569	0.51593620	0.49122585	0.38888889	0
## 9826	0.43792572	0.37403187	0.33284005	0.38888889	0
## 9827	0.50602315	0.53786943	0.61085555	0.50000000	1
## 9828	0.43827498	0.27277983	0.45857049	0.50000000	0
## 9829	0.47327597	0.54150702	0.49941880	0.44444444	1
## 9830	0.52021292	0.53899036	0.51776058	0.33333333	1
## 9831	0.38769496	0.36053181	0.44237009	0.61111111	1
## 9832	0.43445173	0.44460594	0.47165857	0.55555556	1
## 9833	0.48918028	0.46763817	0.52531896	0.44444444	1
## 9834	0.47580087	0.49482560	0.57640085	0.61111111	1
## 9835	0.65667752	0.55280205	0.45491879	0.66666667	1
## 9836	0.54036673	0.45842107	0.51014525	0.72222222	0
## 9837	0.56942172	0.68684434	0.56171987	0.61111111	1
## 9838	0.58574939	0.61033809	0.47866339	0.38888889	1
## 9839	0.51173776	0.52973979	0.46352169	0.44444444	1
## 9840	0.42153910	0.45348368	0.51701287	0.50000000	0
## 9841	0.27950758	0.35488159	0.41880740	0.33333333	1
## 9842	0.63555180	0.69698162	0.57758242	0.66666667	0
## 9843	0.45057851	0.51623383	0.55441288	0.44444444	0
## 9844	0.65353819	0.67370931	0.65592993	0.66666667	0
## 9845	0.40380667	0.37604357	0.35767164	0.38888889	0
## 9846	0.54988085	0.61352163	0.60908916	0.55555556	1
## 9847	0.43471193	0.36699490	0.56195094	0.44444444	1
## 9848	0.41184053	0.45898010	0.34039820	0.44444444	0
## 9849	0.35475008	0.34001542	0.34835908	0.27777778	0
## 9850	0.64793302	0.75677256	0.51637358	0.50000000	1

```
## 9851          0.50374440          0.56721645 0.47488900          0.55555556    1
## 9852          0.60054841          0.68353233 0.59030263          0.72222222    1
## 9853          0.52784752          0.68161859 0.58541277          0.61111111    1
## 9854          0.43023085          0.42316029 0.44858350          0.27777778    1
## 9855          0.61913167          0.66422417 0.60613595          0.61111111    1
## 9856          0.42702984          0.32989385 0.32693541          0.44444444    0
## 9857          0.72729720          0.66610197 0.71815870          0.66666667    1
## 9858          0.43078254          0.45251174 0.48998720          0.44444444    0
## 9859          0.48757007          0.33635325 0.32225351          0.44444444    0
## 9860          0.23519975          0.18824814 0.15974588          0.11111111    0
## 9861          0.48990395          0.52401230 0.59517813          0.61111111    0
## 9862          0.45540991          0.54693460 0.41987790          0.44444444    1
## 9863          0.47727019          0.45359205 0.47637305          0.33333333    0
## 9864          0.32540668          0.27293050 0.39813701          0.22222222    0
## 9865          0.54630925          0.44084210 0.39715351          0.55555556    1
## 9866          0.55688913          0.55737201 0.64338927          0.61111111    1
## 9867          0.36975281          0.35243587 0.39245904          0.38888889    0
## 9868          0.46678780          0.45728908 0.53677942          0.50000000    0
## 9869          0.54711361          0.55059740 0.47691788          0.38888889    0
## 9870          0.53640315          0.64273079 0.54799365          0.61111111    0
## 9871          0.39795590          0.34635022 0.44963784          0.38888889    0
## 9872          0.40853533          0.45429734 0.42511115          0.55555556    0
## 9873          0.56969443          0.63462116 0.64088535          0.61111111    1
## 9874          0.57240727          0.59605684 0.56335606          0.55555556    0
## 9875          0.55289992          0.52988464 0.42127055          0.66666667    0
## 9876          0.36702130          0.27045406 0.38047384          0.38888889    0
## 9877          0.64997694          0.51126668 0.43657920          0.50000000    0
## 9878          0.42264363          0.38199660 0.42110227          0.22222222    1
## 9879          0.42821415          0.48556472 0.50443880          0.38888889    1
## 9880          0.51167891          0.42121271 0.41965220          0.50000000    0
## 9881          0.65777724          0.70894718 0.54768488          0.50000000    0
## 9882          0.36359678          0.39465672 0.42077473          0.38888889    0
## 9883          0.43305094          0.49024171 0.54735310          0.55555556    1
## 9884          0.43003166          0.46921383 0.59369786          0.50000000    0
## 9885          0.62719763          0.66050684 0.56222368          0.50000000    1
## 9886          0.51420258          0.45690275 0.38585967          0.33333333    1
## 9887          0.69103579          0.60596129 0.44189131          0.61111111    1
## 9888          0.52899920          0.56371496 0.53291398          0.61111111    1
## 9889          0.38127454          0.37290917 0.53789058          0.50000000    1
## 9890          0.47681733          0.52646296 0.47526652          0.33333333    0
## 9891          0.52116965          0.53562588 0.50922460          0.55555556    0
## 9892          0.38198258          0.37179371 0.45512483          0.55555556    1
## 9893          0.59987185          0.57522530 0.52770731          0.50000000    1
## 9894          0.52496505          0.53714456 0.53093863          0.61111111    1
## 9895          0.46924476          0.49859044 0.58954161          0.66666667    1
## 9896          0.50402412          0.45915984 0.52928709          0.44444444    0
## 9897          0.40607421          0.31605697 0.31502226          0.33333333    0
## 9898          0.40790798          0.42350574 0.48665528          0.55555556    1
## 9899          0.42523858          0.45515362 0.43404045          0.44444444    0
## 9900          0.49305919          0.51478074 0.38243796          0.38888889    0
## 9901          0.65508007          0.56944333 0.63809741          0.55555556    1
## 9902          0.50392227          0.54391178 0.52590125          0.61111111    1
## 9903          0.56320749          0.46305724 0.36960630          0.38888889    0
## 9904          0.46865834          0.50295905 0.53369877          0.72222222    0
## 9905          0.65928306          0.77828081 0.66946844          0.77777778    1
## 9906          0.39850597          0.53733014 0.59715603          0.55555556    0
## 9907          0.59176318          0.58393786 0.50650575          0.55555556    0
## 9908          0.58151316          0.66208613 0.64206302          0.55555556    0
```

```
## 9909              0.59879945          0.69239160 0.67954751        0.55555556   1
## 9910              0.71035649          0.78938861 0.61528003        0.55555556   1
## 9911              0.53989777          0.44197956 0.42914111        0.61111111   0
## 9912              0.66148767          0.67122645 0.70894380        0.61111111   1
## 9913              0.39756212          0.38797864 0.30730622        0.38888889   1
## 9914              0.55232517          0.55805578 0.58766797        0.61111111   1
## 9915              0.56533165          0.50342699 0.49371335        0.50000000   1
## 9916              0.43982427          0.42936018 0.49015462        0.55555556   1
## 9917              0.49859409          0.68785964 0.64263592        0.61111111   1
## 9918              0.41996138          0.39175700 0.53095930        0.55555556   1
## 9919              0.58134826          0.62521355 0.40868316        0.50000000   0
## 9920              0.32438768          0.30495867 0.38847643        0.38888889   0
## 9921              0.60229551          0.52943402 0.59647507        0.50000000   1
## 9922              0.63808923          0.57593847 0.58039523        0.55555556   0
## 9923              0.28131703          0.14030773 0.39988655        0.33333333   0
## 9924              0.40735910          0.36106268 0.45731396        0.44444444   0
## 9925              0.60379410          0.56116312 0.62715384        0.61111111   1
## 9926              0.54077567          0.48823206 0.57788397        0.44444444   1
## 9927              0.61254264          0.64887202 0.52069581        0.50000000   1
## 9928              0.51503469          0.54359716 0.48383889        0.61111111   1
## 9929              0.54890409          0.60369615 0.51353508        0.44444444   1
## 9930              0.58950126          0.46364583 0.50513005        0.55555556   1
## 9931              0.68701963          0.66599750 0.55926049        0.50000000   1
## 9932              0.52284819          0.59578143 0.48342805        0.38888889   1
## 9933              0.58099529          0.45720681 0.54965361        0.44444444   0
## 9934              0.46976396          0.48272553 0.48972437        0.55555556   0
## 9935              0.59079432          0.63235932 0.50965748        0.50000000   1
## 9936              0.62289108          0.61650132 0.52891155        0.66666667   1
## 9937              0.51770090          0.42290429 0.40443711        0.66666667   1
## 9938              0.58820650          0.66260092 0.52829059        0.55555556   1
## 9939              0.53734858          0.58418910 0.64024155        0.61111111   0
## 9940              0.35621198          0.19246026 0.31341128        0.38888889   0
## 9941              0.21489963          0.16687084 0.21328297        0.22222222   0
## 9942              0.50433683          0.41569172 0.45473929        0.44444444   1
## 9943              0.44711945          0.33771564 0.51593846        0.83333333   1
## 9944              0.50697173          0.49863418 0.51014817        0.66666667   1
## 9945              0.59822907          0.50345291 0.42590910        0.38888889   1
## 9946              0.58938051          0.56082276 0.47404399        0.50000000   0
## 9947              0.53583218          0.54427955 0.53626399        0.61111111   1
## 9948              0.39012700          0.46510398 0.56912214        0.50000000   1
## 9949              0.57170746          0.68503494 0.52649208        0.50000000   1
## 9950              0.72337367          0.59300584 0.63392964        0.61111111   1
## 9951              0.50974555          0.54832882 0.45484616        0.55555556   0
## 9952              0.50037866          0.39215953 0.44333629        0.44444444   1
## 9953              0.55474441          0.60081486 0.42369557        0.61111111   0
## 9954              0.54228899          0.49512647 0.40283378        0.44444444   0
## 9955              0.57591736          0.42762461 0.38053182        0.55555556   0
## 9956              0.59612934          0.70328410 0.60363661        0.50000000   1
## 9957              0.31628772          0.17921113 0.33956896        0.33333333   0
## 9958              0.58819203          0.60125889 0.49737838        0.44444444   1
## 9959              0.63111486          0.57647852 0.47030138        0.50000000   0
## 9960              0.60256100          0.55094165 0.45942353        0.55555556   1
## 9961              0.50695498          0.42027013 0.43283685        0.44444444   0
## 9962              0.53693975          0.45681981 0.44653445        0.66666667   1
## 9963              0.46450461          0.46602849 0.43972984        0.66666667   0
## 9964              0.53344353          0.47841169 0.48361414        0.50000000   1
## 9965              0.56380867          0.51610795 0.45145931        0.55555556   1
## 9966              0.56982602          0.64916724 0.54624645        0.38888889   1
```

```
## 9967            0.38061219              0.31810721 0.43510325          0.38888889    0
## 9968            0.53020783              0.47693427 0.48503491          0.55555556    1
## 9969            0.56930608              0.53720992 0.51241889          0.50000000    0
## 9970            0.50408508              0.60711431 0.53132927          0.50000000    0
## 9971            0.76043445              0.91273316 0.84650605          0.77777778    1
## 9972            0.46408550              0.33289105 0.40489140          0.55555556    1
## 9973            0.39994848              0.21204735 0.30440207          0.38888889    0
## 9974            0.55601154              0.55152132 0.46303368          0.61111111    0
## 9975            0.59957024              0.62575660 0.57014003          0.55555556    1
## 9976            0.54113165              0.39406115 0.51200370          0.61111111    0
## 9977            0.67779539              0.66481459 0.55448076          0.55555556    1
## 9978            0.59110125              0.49619405 0.43363439          0.38888889    0
## 9979            0.48992416              0.41806886 0.43797650          0.33333333    1
## 9980            0.56290822              0.58748329 0.64619882          0.61111111    1
## 9981            0.55690369              0.54281384 0.56466502          0.66666667    1
## 9982            0.49439379              0.45110562 0.36610702          0.38888889    1
## 9983            0.39647807              0.38716280 0.28934974          0.38888889    0
## 9984            0.41609261              0.41575726 0.32087164          0.33333333    0
## 9985            0.59445902              0.56454381 0.47112738          0.44444444    0
## 9986            0.47766923              0.46918025 0.44619011          0.33333333    1
## 9987            0.38098858              0.37012614 0.43312385          0.44444444    0
## 9988            0.59283341              0.48933164 0.54055031          0.50000000    0
## 9989            0.56605292              0.51838430 0.43643078          0.50000000    0
## 9990            0.31626926              0.38889250 0.44359885          0.38888889    1
## 9991            0.56655399              0.46020747 0.39979654          0.38888889    0
## 9992            0.54691956              0.38053095 0.33696686          0.22222222    0
## 9993            0.32095464              0.31434084 0.45165473          0.61111111    1
## 9994            0.61918517              0.47079905 0.50940887          0.66666667    0
## 9995            0.50195255              0.57344770 0.47774631          0.66666667    1
## 9996            0.58294836              0.57675635 0.43013358          0.33333333    0
## 9997            0.65414013              0.44949907 0.46772388          0.38888889    1
## 9998            0.43142726              0.31073567 0.39526470          0.61111111    0
## 9999            0.57912079              0.47802244 0.49654096          0.66666667    1
##  [ reached 'max' / getOption("max.print") -- omitted 13102 rows ]
```

4.3 Treniranje modela, predikcija i zaključak

Dijelimo obzervacije u skupove podataka za treniranje i predikciju:

```r
set.seed(123)


trainingIndices <- sample(1:nrow(playerDifference), nrow(playerDifference) * 0.7)
trainingSet <- playerDifference[trainingIndices, ]
testingSet <- playerDifference[-trainingIndices, ]
```

Provodimo logističku regresiju:

```r
model <- glm(won ~ ., family = binomial(link = "logit"), data = trainingSet)
```

Sada pogledajmo ispis rezultata našeg modela:

```r
summary(model)
```

```
##
## Call:
## glm(formula = won ~ ., family = binomial(link = "logit"), data = trainingSet)
##
## Coefficients:
##                  Estimate Std. Error z value Pr(>|z|)
## (Intercept)      -0.27690    0.51227  -0.541 0.588822
```

```
## height                 0.07916    0.19706    0.402 0.687906
## age                    -1.34393    0.13399 -10.030  < 2e-16 ***
## rank                   -6.12465    0.91468  -6.696 2.14e-11 ***
## avgAce                 -1.12365    0.29374  -3.825 0.000131 ***
## avgDf                  -0.05459    0.17203  -0.317 0.750973
## avgBpSavedPercentage   -0.04410    0.26263  -0.168 0.866638
## avgSvptWonPercentage    2.07534    0.37264   5.569 2.56e-08 ***
## winrate                 5.67058    0.32480  17.459  < 2e-16 ***
## lastTenWinrate          1.28997    0.18150   7.107 1.19e-12 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 22416  on 16169  degrees of freedom
## Residual deviance: 19649  on 16160  degrees of freedom
## AIC: 19669
##
## Number of Fisher Scoring iterations: 3
```

Za početak bacimo pogled na stupac s imenom "Pr($>$|z|)" koji nam ukazuje na to koje su se od varijabli u našem modelu pokazale statistički značajnim: za svaku varijablu nam daje P-vrijednost testa hipoteze da je pripadni koeficijent jednak 0. Možemo zaključiti da su nam za razinu značajnosti od 0.05 statistički značajne sve varijable osim height, avgDf i avgBpSavedPercentage koje ne doprinose efikasnosti modela. Sada pogledajmo koliko je naš model dobar:

```
predictions <- predict(model, newdata = testingSet, type = "response")
predictions <- ifelse(predictions > 0.5, 1, 0)

misClasificError <- mean(predictions != testingSet$won)
print(paste('Accuracy', 1 - misClasificError))
```

```
## [1] "Accuracy 0.66440629057856"
```

Preciznost od 66.3973% na skupu podataka od 6931 obzervacija. Ajmo sada opet provesti logističku regresiju, ali bez prethodno spomenutih varijabli:

```
set.seed(123)

indices <- c(2, 3, 4, 7, 8, 9, 10)
playerDifference <- playerDifference[, indices]
trainingIndices <- sample(1:nrow(playerDifference), nrow(playerDifference) * 0.7)
trainingSet <- playerDifference[trainingIndices, ]
testingSet <- playerDifference[-trainingIndices, ]
model <- glm(won ~ ., family = binomial(link = "logit"), data = trainingSet)
summary(model)
```

```
##
## Call:
## glm(formula = won ~ ., family = binomial(link = "logit"), data = trainingSet)
##
## Coefficients:
##                       Estimate Std. Error z value Pr(>|z|)
## (Intercept)            -0.2872     0.5034  -0.570    0.568
## age                    -1.3481     0.1306 -10.322  < 2e-16 ***
## rank                   -6.1372     0.9138  -6.716 1.87e-11 ***
## avgAce                 -1.1091     0.2400  -4.622 3.80e-06 ***
## avgSvptWonPercentage    2.0969     0.3300   6.355 2.09e-10 ***
## winrate                 5.6537     0.3222  17.545  < 2e-16 ***
## lastTenWinrate          1.2900     0.1814   7.109 1.17e-12 ***
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 22416  on 16169  degrees of freedom
## Residual deviance: 19649  on 16163  degrees of freedom
## AIC: 19663
##
## Number of Fisher Scoring iterations: 3
```

AIC vrijednost je sada malo manja, što je indikator da je ovaj model bolji. Da vidimo koliko je zapravo dobar:

```r
predictions <- predict(model, newdata = testingSet, type = "response")
predictions <- ifelse(predictions > 0.5, 1, 0)

misClasificError <- mean(predictions != testingSet$won)
print(paste('Accuracy', 1 - misClasificError))
```

```
## [1] "Accuracy 0.664839128552878"
```

Sada nam je preciznost još manja ("Dikod uđe, dikod ne uđe" - Mate Baturina). Međutim, unatoč tome možemo zaključiti da je itekako moguće predvidjeti ishod teniskog meča pomoću logističke regresije.

5   4. istraživačko pitanje: Kakva je veza između vrste terena i vjerojatnosti da će mečevi otići u 5. set?

Ovo pitanje možemo riješiti pomoću hi-kvadrat testa homogenosti, s tim da moramo paziti da određene pretpostavke budu zadovoljene. Kako bismo to mogli provjeriti, prvo moramo izolirati željene podatke u obliku pogodnom za obradu. Za početak, idemo učitati sve potrebne podatke:

```r
matches <- fetch_data(1968:2023)
matches <- matches[, c("surface", "score", "best_of")]
```

Zatim moramo eliminirati neregularne obzervacije: mečeve za koje ne znamo podlogu na kojoj su odigrani i/ili mečevi u kojima teoretski nije bilo moguće odigrati 5 setova (zbog samog formata natjecanja):

```r
matches %>% filter(!is.na(surface), best_of == 5) -> matches
matches$best_of <- NULL
```

Sada dijelimo mečeve u 2 skupa: oni u kojima je odigrano svih 5 setova i oni u kojima nije (NAPOMENA: u ovom 2. slučaju pritom ignoriramo mečeve koji su otkazani zbog neprimjerenog ponašanja igrača, pogreške sudca u organizacijskom smislu, zbog loših vremenskih uvjeta i raznih drugih okolnosti koje "nisu vezane uz sam sport"):

```r
fiveSetMatchesIndices <- which(
  !str_detect(matches$score, "[^0-9- ]") & str_count(matches$score, "-") == 5)
fiveSetsMatches <- matches[fiveSetMatchesIndices, ]

lessThanFiveSetsMatches <- matches[-fiveSetMatchesIndices, ]
lessThanFiveSetsMatches <- filter(lessThanFiveSetsMatches,
                                  !str_detect(score, "(Played and unfinished|Played and abandoned|W/
```

Sada gradimo kontingencijsku tablicu:

```r
fiveSetsMatches %>% group_by(surface) %>% summarise(count = n()) -> fiveSetsMatches
lessThanFiveSetsMatches %>% group_by(surface) %>% summarise(count = n()) -> lessThanFiveSetsMatches

data <- as.table(rbind(pull(fiveSetsMatches, count), pull(lessThanFiveSetsMatches, count)))
colnames(data) <- c("Carpet", "Clay", "Grass", "Hard")
rownames(data) <- c("5 sets played", "Less than 5 sets played")
```

```
probabilities <- data[1, ] / data[2, ]
```

Sada provodimo test i gledamo ispise:

```
test <- chisq.test(data)
test$observed
```

```
##                        Carpet  Clay Grass  Hard
## 5 sets played             186  1714  1377  1498
## Less than 5 sets played  1402 12052  8879 13483
```

```
test$expected
```

```
##                          Carpet     Clay    Grass      Hard
## 5 sets played           186.8074  1619.39 1206.484  1762.319
## Less than 5 sets played 1401.1926 12146.61 9049.516 13218.681
```

```
test$residuals
```

```
##                            Carpet        Clay       Grass        Hard
## 5 sets played          -0.05907485  2.35105300  4.90912192 -6.29630184
## Less than 5 sets played 0.02157003 -0.85844123 -1.79247029  2.29897203
```

```
test$stdres
```

```
##                            Carpet        Clay       Grass        Hard
## 5 sets played          -0.06415712  3.07881622  6.04537198 -8.43863029
## Less than 5 sets played 0.06415712 -3.07881622 -6.04537198  8.43863029
```

```
test
```

```
##
##  Pearson's Chi-squared test
##
## data:  data
## X-squared = 78.509, df = 3, p-value < 2.2e-16
```

S obzirom na to da je vrijednost svake ćelije frekvencija, da svaka obzervacija pripada jednoj ćeliji te da je očekivana vrijednost svake ćelije >= 5, možemo zaključiti da su rezultati ovog testa validni te da vjerojatnost da će meč otići u 5. set ne ovisi o vrsti terena (jako mala P-vrijednost: 2.2e-16)

6 7. istraživačko pitanje: Postoji li razlika u broju odigranih aseva između igrača koji su osvojili Grand Slam naslov i onih koji nisu?

6.1 Učitavanje podataka

Podatke ćemo učitati iz CSV datoteka u listu podatkovnih okvira. Svaki podatkovni okvir sadržava podatke mečeva jedne godine. Nakon toga spajamo sve podatkove okvire u jedan te time imamo informacije o svim odigranim mečevima od 1968. do 2023. godine dostupne u jednom podatkovnom okviru. Iz tog okvira ćemo naknadno izvlačiti potrebne podatke za svrhe analize.

Proces učitavanja podataka je prikazan u sljedećem bloku koda:

```
matches <- fetch_data(1968:2023)
```

6.2 Prilagodba tipova podataka

Nakon učitavanja podataka, potrebno je ispraviti tipove podataka za neke stupce. Ti stupci su:

- surface - podloga na kojoj se igrao meč: trava, zemlja, tvrda podloga, tepih (eng. grass, clay, hard, carpet)

- `tourney_level` - razina turnira: Grand Slam, ATP Finals, ATP Masters 1000, ATP Tour, ATP Challengers
- `tourney_date` - datum održavanja turnira
- `winner_hand` - ruka s kojom je pobjednik igrao meč: desnoruk, lijevoruk, ambidekster, nepoznato (eng. right-handed ("R"), left-handed ("L"), ambidextrous ("A"), unknown ("U"))
- `loser_hand` - ruka s kojom je gubitnik igrao meč (definirano isto kao i za winner_hand)

Prilagodba tipova podataka je prikazana u sljedećem kodu:

```
matches$surface <- factor(
  matches$surface,
  levels = c("Grass", "Clay", "Hard", "Carpet")
)
matches$tourney_level <- factor(
  matches$tourney_level,
  levels = c("F", "A", "D", "M", "G")
)
matches$tourney_date <- ymd(matches$tourney_date)
matches$winner_hand <- factor(
  matches$winner_hand,
  levels = c("R", "L", "A", "U")
)
matches$loser_hand <- factor(
  matches$loser_hand,
  levels = c("R", "L", "A", "U")
)
```

6.3 Statistička analiza

6.3.1 Priprema podataka

Potrebne su nam dvije glavne grupe u koje ćemo podijeliti igrače:

- igrači s barem jednom osvojenom Grand Slam titulom
- igrači bez osvojene Grand Slam titule (u daljnjem tekstu ćemo ih nazvati "ostali igrači")

Uz te dvije glavne grupe, stvorit ćemo dodatnu grupu za ostale igrače gdje ih dodatno filtriramo tako da uklonimo igrače koji su ukupno sudjelovali u manje od 7 mečeva. Budući da uspoređujemo prosjeke odigranih asova po meču, želimo izbjeći situacije gdje bi igrači koji su odigrali samo jedan ili dva meča imali velik utjecaj na prosjek cijele grupe. Budući da je za osvajanje titule potrebno odigrati i pobijediti u barem 7 mečeva (za grand slam turnire se inicijalno izvlači 128 sudionika), smatramo da je 7 mečeva minimalna granica koju igrač mora ispuniti da bi bio uključen u usporedbu s igračima koji su osvojili Grand Slam titulu. U daljnjem tekstu ćemo se na tu grupu referirati kao "ostali igrači (n>=7)" i odvojeno ju uspoređivati s igračima koji su osvojili Grand Slam titulu.

Proces izvlačenja i pripreme podataka je prikazan i komentiran u sljedećem bloku koda:

```
# izrada novog okvira s podatcima o svim igračima (ID, ime, broj asova)
all_players <- matches %>%
  dplyr::select(winner_id, winner_name, w_ace) %>%
  rename(id = winner_id, name = winner_name, aces = w_ace) %>%
  bind_rows(matches %>%
    dplyr::select(loser_id, loser_name, l_ace) %>%
    rename(id = loser_id, name = loser_name, aces = l_ace))

# uklanjanje unosa za koje ne postoje podatci o broju odigranih asova
all_players <- all_players %>%
  filter(!is.na(aces))

# grupiranje igrača po ID-u i imenu te izračun prosjeka asova po meču (APM)
all_players <- all_players %>%
```

```r
  group_by(id, name) %>%
  summarise(aces = sum(aces), matches = n()) %>%
  mutate(apm = aces / matches)
```

```
## `summarise()` has grouped output by 'id'. You can override using the `.groups`
## argument.
```

```r
# filtriranje igrača koji su odigrali >=7 mečeva
filter_players <- all_players %>%
  filter(matches >= 7)

# izrada okvira za igrače s naslovom (pobjeda u finalu Grand Slam turnira)
gs_winners <- matches %>%
  filter(tourney_level == "G" & round == "F") %>%
  dplyr::select(winner_id, winner_name) %>%
  rename(id = winner_id, name = winner_name) %>%
  distinct(id, name)

# dodavanje stupca s prosjekom asova po meču (apm) za igrače s naslovom
gs_winners <- gs_winners %>%
  left_join(all_players, by = c("id", "name")) %>%
  filter(!is.na(apm))

# izrada okvira za ostale igrače (bez naslova)
gs_others <- all_players %>%
  filter(!id %in% gs_winners$id)

# izrada okvira za ostale igrače uz uvjet da su odigrali barem 7 mečeva
gs_filter1 <- filter_players %>%
  filter(!id %in% gs_winners$id)

# brisanje privremenih okvira koji su nepotrebni u daljnjem radu
rm(filter_players)
```

6.3.2 Deskriptivna statistika

Sada kada imamo podatke na kojima možemo provoditi analizu, izračunat ćemo osnovne deskriptivne statistike za svaku od grupa. Izračunat ćemo sljedeće vrijednosti:

- prosjek asova svake grupe
- medijan asova
- standardnu devijaciju asova
- minimalnu vrijednost asova svake grupe
- maksimalnu vrijednost asova svake grupe
- ukupan broj odigranih mečeva za svaku grupu
- prosjek asova po meču (APM) cijele grupe
- broj igrača u svakoj grupi

Table 3: Servirani asovi po grupama

id	mean_aces	median_aces	sd_aces	min_aces	max_aces	total_matches	group_apm	n_players
Grand Slam pobjednici	3703.77	3452	2982.47	0	11420	23677	6.73	43
Ostali igrači	386.25	23	1013.12	0	14663	165274	5.53	2368
Ostali igrači (n>=7)	764.82	237	1329.93	1	14663	162536	5.57	1183
Svi igrači	445.42	25	1164.47	0	14663	188951	5.68	2411

Uz tablicu s deskriptivnim statistikama, možemo i vizualizirati podatke kako bismo dobili bolji uvid u njih. Za to ćemo koristiti boxplotove za broj asova i srednje vrijednost asova po mečevima (APM) igrača te dijagrame gustoće za prosjek asova po meču kako bismo dobili uvid u distribuciju podataka. Za svaku od grupa ćemo izraditi zasebne vizualizacije kako bismo mogli usporediti podatke između grupa. Uz to, izradit ćemo i vizualizacije za sve igrače kako bismo dobili uvid u distribuciju podataka za cijelu populaciju igrača.

Boxplotovi broja asova i APM-ova za svaku grupu:
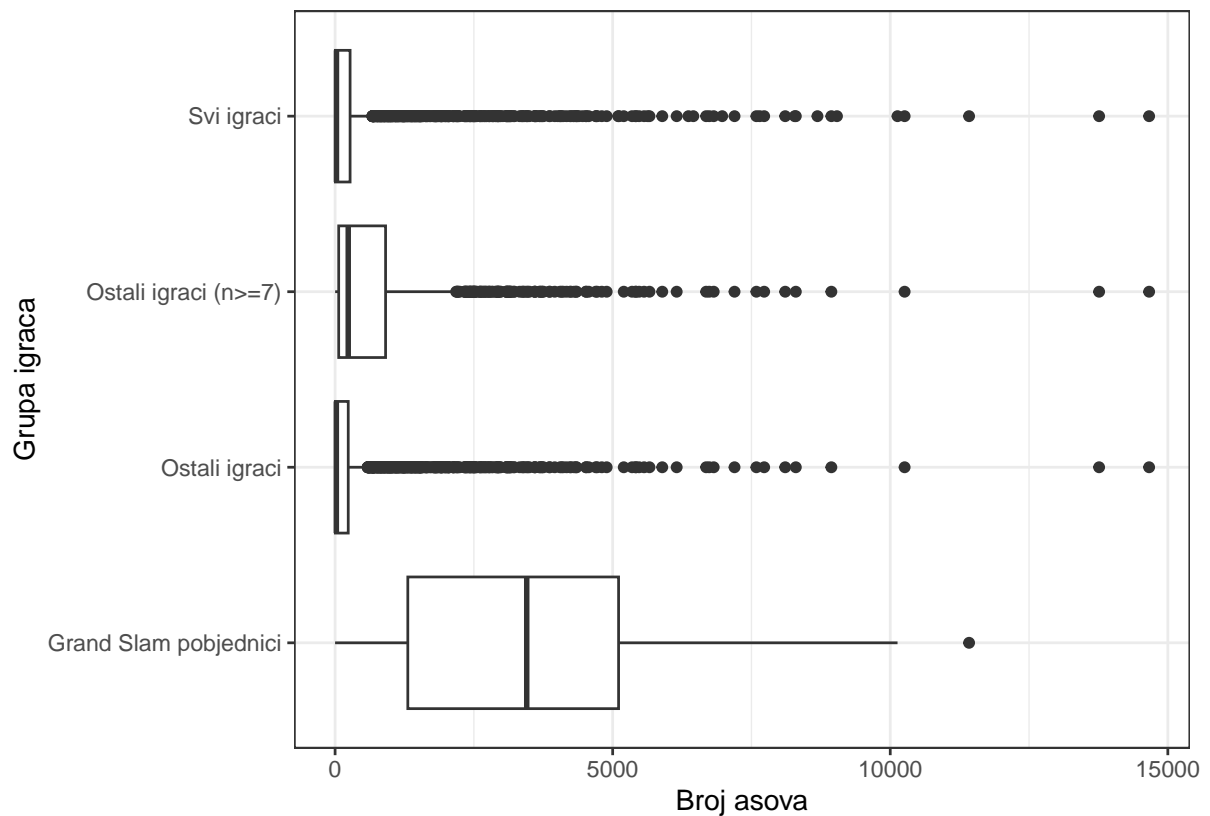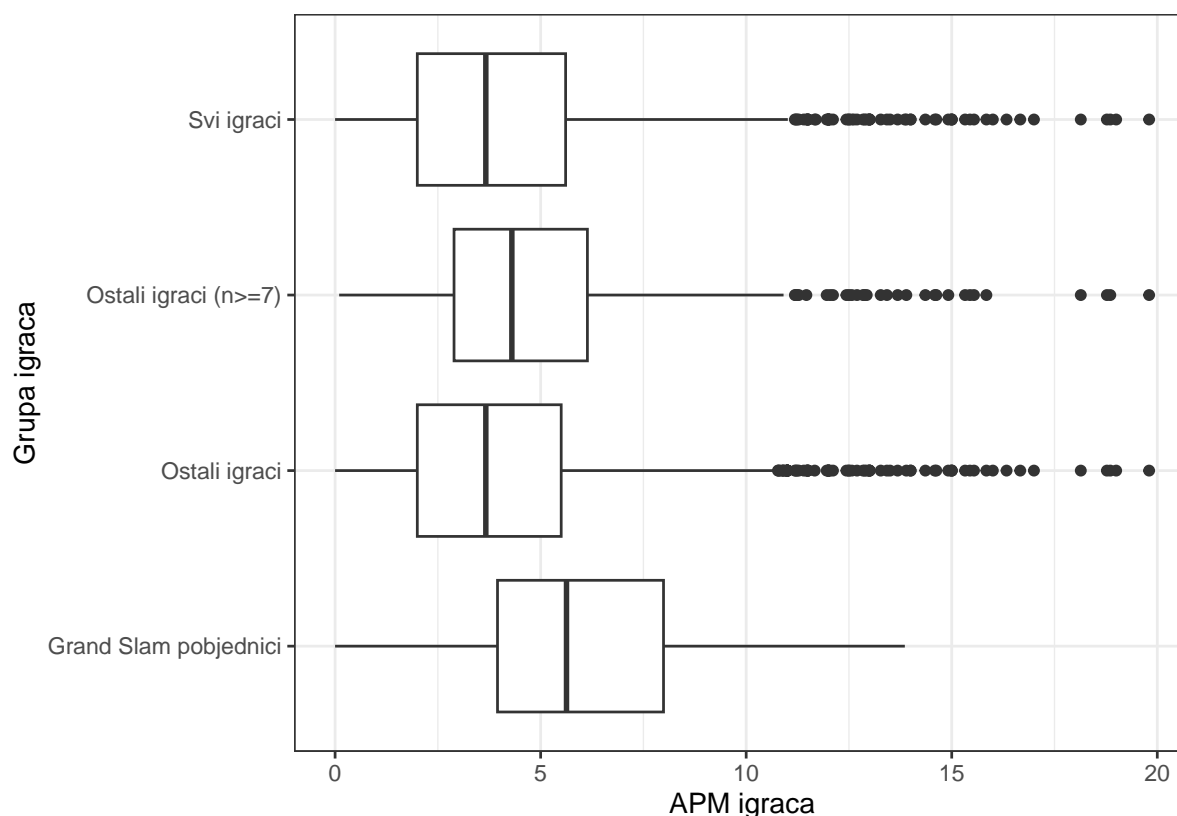
Iz boxplot dijagrama možemo vidjeti kako je distribucija asova igrača jako nakošena na lijevu stranu te kako ima jako puno ekstremnih vrijednosti, što i ima smisla jer broj asova ultimativno ovisi o ukupnom broju mečeva koje je igrač odigrao tijekom svoje karijere.

Zbog toga ćemo usporedbu broja asova između grupa raditi kroz srednju vrijednost asova po mečevima (APM) igrača. Kroz APM dobivamo jedinstvenu mjeru koja ne ovisi o broju mečeva koje je igrač odigrao te je stoga pogodnija za usporedbu između grupa.

U boxplot dijagramu APM-ova možemo stoga primijetiti kako su distribucije APM-ova puno manje nakošene te imaju puno manje ekstremnih vrijednosti.

Deskriptivna statistika APM-ova za svaku grupu je sljedeća:

Table 4: APM igrača po grupama

id	mean_apm	median_apm	sd_apm	min_apm	max_apm	n_players
Grand Slam pobjednici	6.135	5.629	2.968	0.0	13.859	43
Ostali igrači	4.080	3.667	2.926	0.0	19.801	2368
Ostali igrači (n>=7)	4.791	4.300	2.709	0.1	19.801	1183
Svi igrači	4.117	3.667	2.938	0.0	19.801	2411

Kako bismo dobili bolji uvid u samu distribuciju APM-ova grupa, izradit ćemo dijagrame gustoće za svaku grupu:

715
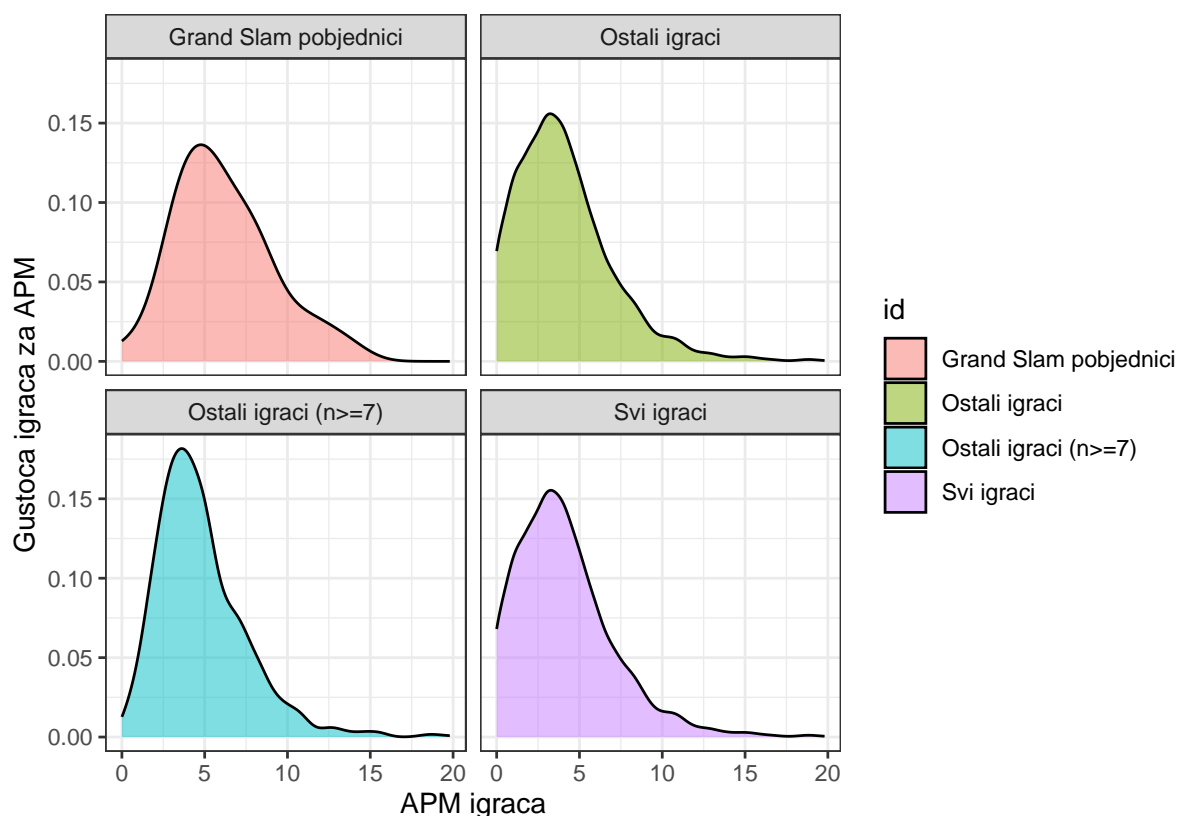
Iz dijagrama gustoća svake od grupa možemo vidjeti kako su podatci uistinu još uvijek lijevo nakošeni te vjerojatno nisu normalno distribuirani. Zbog toga ćemo prvo trebati provjeriti normalnost podataka kako bismo mogli odlučiti koje testove ćemo koristiti za usporedbu grupa.

6.3.3 Statističko testiranje

Nakon vizualnog uvida u podatke i izračunatih deskriptivnih statistika, možemo započeti statističko testiranje kako bismo dobili odgovor na temeljno pitanje ovog istraživanja: ***Postoji li razlika u broju odigranih aseva između igrača koji su osvojili Grand Slam naslov i onih koji nisu?***

6.3.3.1 Normalnost uzoraka Kako bismo odlučili hoćemo li koristiti parametarske ili neparametarske testove, potrebno je provjeriti normalnost podatako. Za to ćemo iskoristiti Kolmogorov-Smirnovljev test. Budući da smo već ranije zaključili da je APM pogodniji za usporedbu grupa, provjerit ćemo normalnost samo za APM-ove.

Prije provođenja Kolmogorov-Smirnovljevog testa postavljamo sljedeće hipoteze:

- H0: Podatci su normalno distribuirani
- H1: Podatci nisu normalno distribuirani
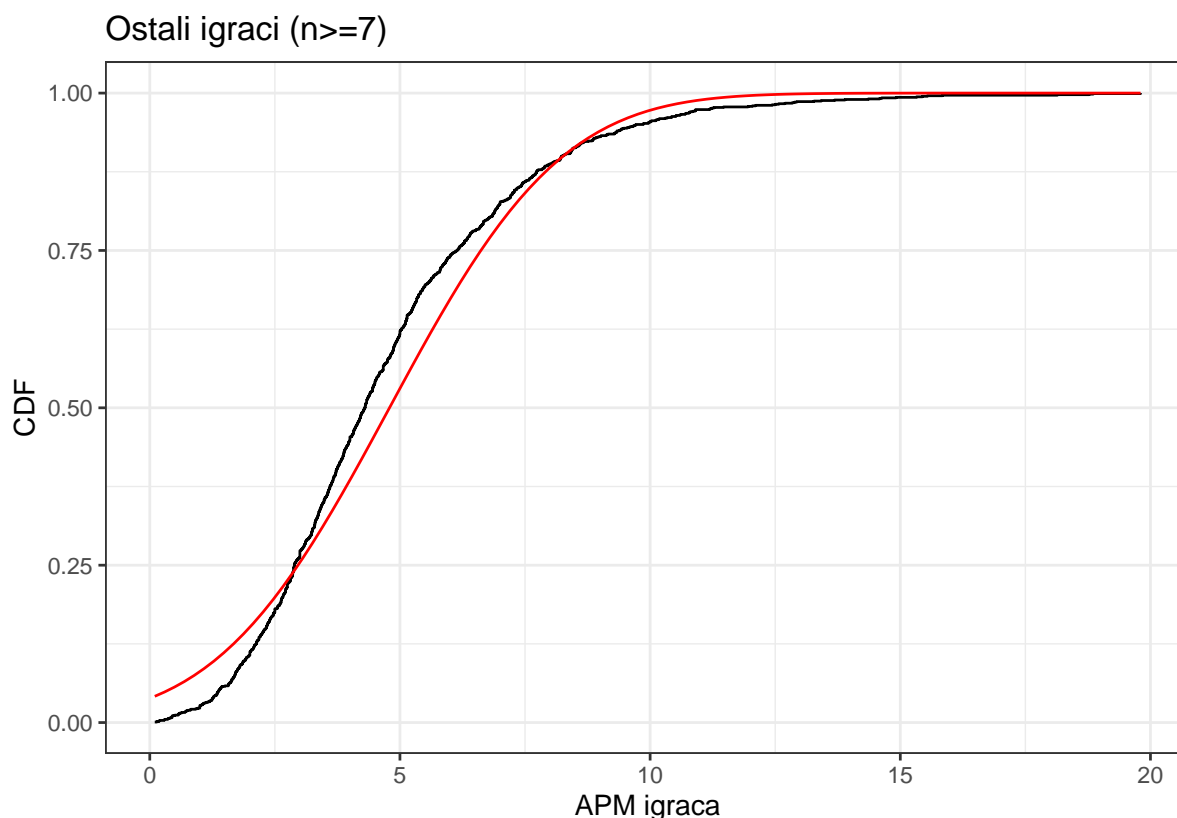
Za test uzimamo razinu značajnosti od 0.05.

716

Grand Slam pobjednici
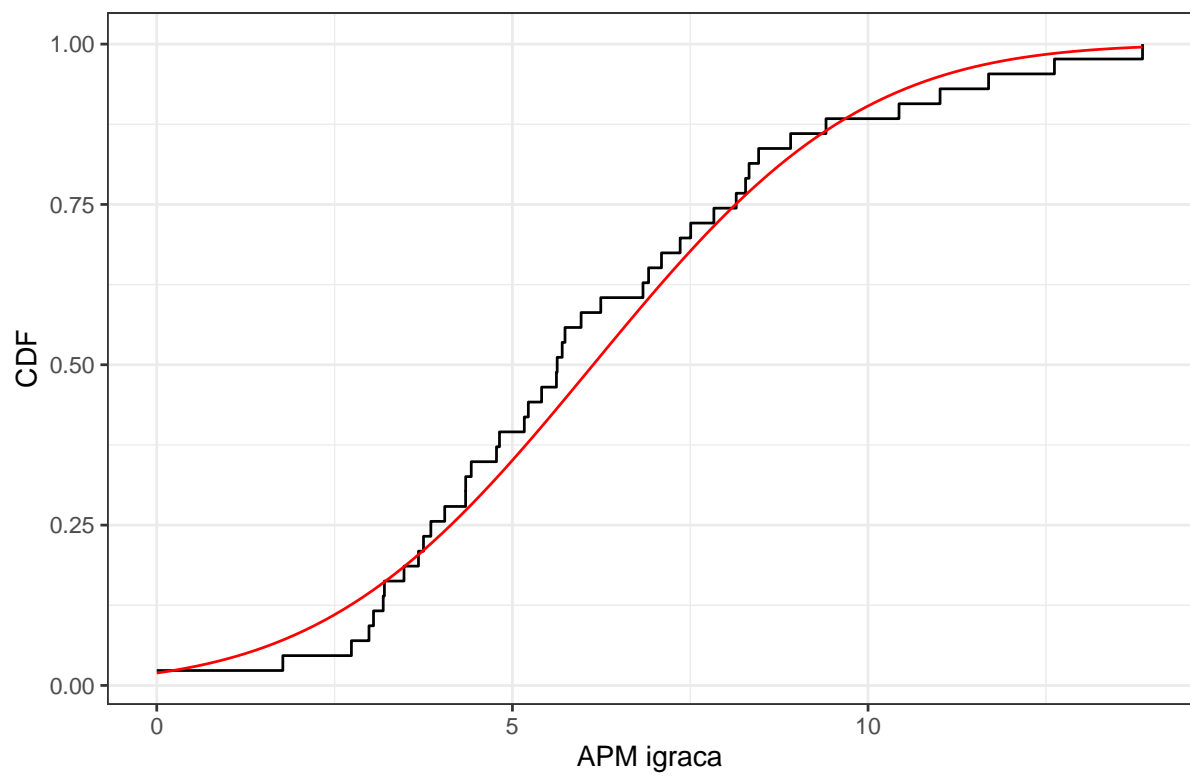
```
##
##  Exact one-sample Kolmogorov-Smirnov test
##
## data:  gs_winners$apm
## D = 0.11126, p-value = 0.6216
## alternative hypothesis: two-sided
```

Ostali igraci
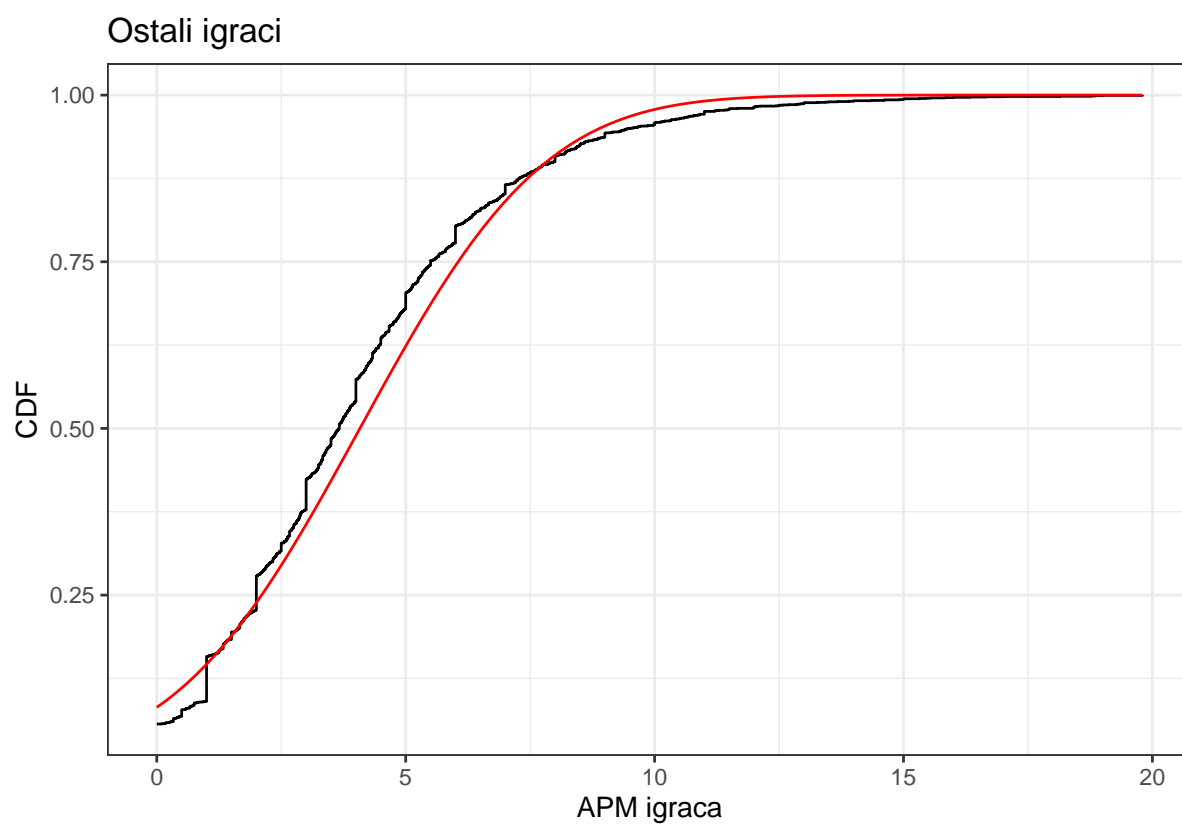
```
##
##   Exact one-sample Kolmogorov-Smirnov test
##
## data:  gs_others$apm
## D = 0.084809, p-value = 1.954e-14
## alternative hypothesis: two-sided
```

Ostali igraci (n>=7)

```
## 
##   Exact one-sample Kolmogorov-Smirnov test
## 
## data:  gs_filter1$apm
## D = 0.09568, p-value = 7.062e-10
## alternative hypothesis: two-sided
```

Kao što možemo vidjeti iz dijagrama i rezultata Kolmogorov-Smirnovljevog testa, jedino uzorak igrača s Grand Slam naslovom prolazi test normalnosti, dok ostali, zbog činjenice da su uzorci puno veći, ne prolaze test te za njih odbacujemo H0 hipotezu uz razinu značajnosti od 0.05.

Zbog toga ćemo morati koristiti neparametarske testove za usporedbu grupa.

6.3.3.2   Neparametarsko testiranje   Sada kada smo utvrdili da su uzorci nenormalno distribuirani, možemo koristiti neparametarske testove za usporedbu grupa. Budući da uspoređujemo dvije grupe, koristit ćemo Mann-Whitney U test. Prije provođenja testa postavljamo sljedeće hipoteze:

- H0: Nema razlike u prosjeku APM-ova između grupa (uzorci dolaze iz iste populacije)
- H1: Postoji razlika u prosjeku APM-ova između grupa (jedan uzorak stohastički dominira)

Za ovaj test također uzimamo razinu značajnosti od 0.05.

```
## 
##   Wilcoxon rank sum test with continuity correction
## 
## data:  gs_winners$apm and gs_others$apm
## W = 72232, p-value = 2.427e-06
## alternative hypothesis: true location shift is not equal to 0
## 
##   Wilcoxon rank sum test with continuity correction
## 
## data:  gs_winners$apm and gs_filter1$apm
## W = 32977, p-value = 0.0009439
```

719

```
## alternative hypothesis: true location shift is not equal to 0
```

Kao što možemo vidjeti iz rezultata testa, u oba slučaja odbacujemo H0 hipotezu uz razinu značajnosti od 0.05. To znači da postoji razlika u prosjeku APM-ova između grupa igrača s osvojenim Grand Slam naslovom i ostalih igrača. Uz to, možemo primijetiti kako je razlika u prosjeku APM-ova između uzorka igrača s naslovom i ostalih igrača puno veća nego između uzorka igrača s naslovom i filtriranih ostalih igrača.

6.4 Zaključak

U ovom istraživanju smo pokušali odgovoriti na pitanje postoji li razlika u broju odigranih aseva između igrača koji su osvojili Grand Slam naslov i onih koji nisu. Kako bismo odgovorili na to pitanje, analizirali smo podatke o svim odigranim mečevima od 1968. do 2023. godine. Nakon pripreme podataka, izračunavanja deskriptivnih statistika i vizualizacije podataka, zaključili smo da postoji razlika u prosjeku APM-ova između igrača koji su osvojili Grand Slam naslov i onih koji nisu. Uz to, možemo primijetiti kako je razlika u prosjeku APM-ova između uzorka igrača s naslovom i ostalih igrača puno veća nego između uzorka igrača s naslovom i filtriranih ostalih igrača. Iz toga možemo zaključiti da postoji razlika u broju odigranih aseva između igrača koji su osvojili Grand Slam naslov i onih koji nisu te da je ta razlika puno veća nego što se može objasniti činjenicom da igrači koji su osvojili Grand Slam naslov imaju više odigranih mečeva od ostalih igrača. Iz toga možemo zaključiti da bi broj odigranih aseva mogao biti jedan od faktora koji utječu na osvajanje Grand Slam naslova.