

Optimisation sans advection

2024-08-16

Anciennes simulations

```
sim_BR <- function(beta1, beta2, alpha1, alpha2, x, y, z, n.BR) {  
  ## Setup  
  RandomFields::RFOptions(spConform=FALSE)  
  lx <- length(sx <- seq_along(x))  
  ly <- length(sy <- seq_along(y))  
  lz <- length(sz <- seq_along(z))  
  ## Model-Variogram BuhlCklu  
  modelBuhlCklu <- RandomFields::RMfbm(alpha=alpha1, var=beta1, proj=1) +  
    RandomFields::RMfbm(alpha=alpha1, var=beta1, proj=2) +  
    RandomFields::RMfbm(alpha=alpha2, var=beta2, proj=3)  
  
  ## Construct grid  
  Nxy <- lx * ly  
  N <- Nxy * lz  
  grid <- matrix(0, nrow=N, ncol=3) # (N,3)-matrix  
  
  for (i in sx)  
    for (j in seq_len(ly*lz))  
      grid[i+(j-1)*ly, 1] <- i  
  
  for (i in sy)  
    for (j in sx)  
      for(k in sz)  
        grid[j+lx*(i-1)+(k-1)*Nxy, 2] <- i  
  
  for (i in sz)  
    for (j in seq_len(Nxy))  
      grid[j+Nxy*(i-1), 3] <- i  
  
  ## Construct shifted variogram  
  Varm1 <- vapply(seq_len(N), function(n)  
    RandomFields::RFvariogram(modelBuhlCklu,  
      x=sx-grid[n,1],  
      y=sy-grid[n,2],  
      z=sz-grid[n,3]),  
    array(NA_real_, dim=c(lx, ly, lz))) ## => (lx, ly, lz, N)-array  
  
  ## Main  
  Z <- array(dim=c(lx, ly, lz, n.BR)) # 4d array  
  E <- matrix(rexp(n.BR * N), nrow=n.BR, ncol=N)  
  for (i in seq_len(n.BR)) { ## n=1
```

```

V <- 1/E[i,1]
W <- RandomFields::RFsimulate(modelBuhlCklu, x, y, z, n=1)
Y <- exp(W - W[1] - Varm1[, , 1])
Z[, , i] <- V * Y
## n in {2,...,N}
for(n in 2:N) {
  Exp <- E[i,n]
  V <- 1/Exp
  while(V > Z[N*(i-1)+n]) {
    W <- RandomFields::RFsimulate(modelBuhlCklu, x, y, z)
    Y <- exp(W - W[n] - Varm1[, , n])
    if(all(V*Y[seq_len(n-1)] < Z[(N*(i-1)+1):(N*(i-1)+(n-1))]))
      Z[, , i] <- pmax(V*Y, Z[, , i])
    Exp <- Exp + rexp(1)
    V <- 1/Exp
  }
}
}
## Return
Z
}

```

```

true_param <- c(0.4, 0.2, 1.5, 1)
ngrid <- 5
spa <- 1:ngrid
nsites <- ngrid^2 # if the grid is squared
temp <- 1:300
n.BR <- 1

# generate the simulations
# BR <- sim_BR(true_param[1] * 2, true_param[2] * 2, true_param[3], true_param[4],
#
#           spa, spa, temp, n.BR)
# save_simulations(BR, ngrid, n.BR,
#           folder = paste0("../data/simulations_BR/oldsim_", ngrid^2, "s_",
#                           length(temp), "t/"),
#           file = paste0("br_", ngrid^2, "s_",
#                           length(temp), "t"), forcedind = 1)

# load the simulations
file_path <- paste0("../data/simulations_BR/oldsim_", ngrid^2, "s_",
                    length(temp), "t/br_",
                    ngrid^2, "s_", length(temp), "t_", 1, ".csv")
simu_df <- read.csv(file_path)

```

```

nsites <- ncol(simu_df)
sites_coords <- generate_grid_coords(sqrt(nsites))
dist_mat <- get_dist_mat(sites_coords,
                        latlon = FALSE) # distance matrix
df_dist <- reshape_distances(dist_mat) # reshape the distance matrix

```

Validation du modèle de Buhl séparable

Pour la simulation avec 25 sites et 300 pas de temps et un quantile de 0.9 on obtient une bonne estimation des paramètres du modèle de Buhl séparable avec WLSE.

En revanche, pour une simulation avec 49 sites et 300 pas de temps avec un quantile de 0.9 on obtient une mauvaise estimation notamment pour le paramètre β_1 et le choix du quantile a un impact sur l'estimation des paramètres mais aucune valeur de quantile ne permet une bonne estimation de tous les paramètres.

```
sites_coords <- generate_grid_coords(sqrt(nsites))
h_vect <- get_lag_vectors(sites_coords, true_param,
                        hmax = sqrt(17), tau_vect = 0:10)

hmax <- sqrt(17)
q <- 0.9
chispa <- spatial_chi_alldist(df_dist, simu_df, quantile = q,
                             hmax = hmax)
```

```
## [1] "h = 1"
## [1] 1 2
## [1] 2 3
## [1] 3 4
## [1] 4 5
## [1] 1 6
## [1] 2 7
## [1] 6 7
## [1] 3 8
## [1] 7 8
## [1] 4 9
## [1] 8 9
## [1] 5 10
## [1] 9 10
## [1] 6 11
## [1] 7 12
## [1] 11 12
## [1] 8 13
## [1] 12 13
## [1] 9 14
## [1] 13 14
## [1] 10 15
## [1] 14 15
## [1] 11 16
## [1] 12 17
## [1] 16 17
## [1] 13 18
## [1] 17 18
## [1] 14 19
## [1] 18 19
## [1] 15 20
## [1] 19 20
## [1] 16 21
## [1] 17 22
## [1] 21 22
## [1] 18 23
```

```

## [1] 22 23
## [1] 19 24
## [1] 23 24
## [1] 20 25
## [1] 24 25
## [1] "h = 1.4142135623731"
## [1] 2 6
## [1] 1 7
## [1] 3 7
## [1] 2 8
## [1] 4 8
## [1] 3 9
## [1] 5 9
## [1] 4 10
## [1] 7 11
## [1] 6 12
## [1] 8 12
## [1] 7 13
## [1] 9 13
## [1] 8 14
## [1] 10 14
## [1] 9 15
## [1] 12 16
## [1] 11 17
## [1] 13 17
## [1] 12 18
## [1] 14 18
## [1] 13 19
## [1] 15 19
## [1] 14 20
## [1] 17 21
## [1] 16 22
## [1] 18 22
## [1] 17 23
## [1] 19 23
## [1] 18 24
## [1] 20 24
## [1] 19 25
## [1] "h = 2"
## [1] 1 3
## [1] 2 4
## [1] 3 5
## [1] 6 8
## [1] 7 9
## [1] 8 10
## [1] 1 11
## [1] 2 12
## [1] 3 13
## [1] 11 13
## [1] 4 14
## [1] 12 14
## [1] 5 15
## [1] 13 15
## [1] 6 16

```

```

## [1] 7 17
## [1] 8 18
## [1] 16 18
## [1] 9 19
## [1] 17 19
## [1] 10 20
## [1] 18 20
## [1] 11 21
## [1] 12 22
## [1] 13 23
## [1] 21 23
## [1] 14 24
## [1] 22 24
## [1] 15 25
## [1] 23 25
## [1] "h = 2.23606797749979"
## [1] 3 6
## [1] 4 7
## [1] 1 8
## [1] 5 8
## [1] 2 9
## [1] 3 10
## [1] 2 11
## [1] 8 11
## [1] 1 12
## [1] 3 12
## [1] 9 12
## [1] 2 13
## [1] 4 13
## [1] 6 13
## [1] 10 13
## [1] 3 14
## [1] 5 14
## [1] 7 14
## [1] 4 15
## [1] 8 15
## [1] 7 16
## [1] 13 16
## [1] 6 17
## [1] 8 17
## [1] 14 17
## [1] 7 18
## [1] 9 18
## [1] 11 18
## [1] 15 18
## [1] 8 19
## [1] 10 19
## [1] 12 19
## [1] 9 20
## [1] 13 20
## [1] 12 21
## [1] 18 21
## [1] 11 22
## [1] 13 22

```

```

## [1] 19 22
## [1] 12 23
## [1] 14 23
## [1] 16 23
## [1] 20 23
## [1] 13 24
## [1] 15 24
## [1] 17 24
## [1] 14 25
## [1] 18 25
## [1] "h = 2.82842712474619"
## [1] 3 11
## [1] 4 12
## [1] 1 13
## [1] 5 13
## [1] 2 14
## [1] 3 15
## [1] 8 16
## [1] 9 17
## [1] 6 18
## [1] 10 18
## [1] 7 19
## [1] 8 20
## [1] 13 21
## [1] 14 22
## [1] 11 23
## [1] 15 23
## [1] 12 24
## [1] 13 25
## [1] "h = 3"
## [1] 1 4
## [1] 2 5
## [1] 6 9
## [1] 7 10
## [1] 11 14
## [1] 12 15
## [1] 1 16
## [1] 2 17
## [1] 3 18
## [1] 4 19
## [1] 16 19
## [1] 5 20
## [1] 17 20
## [1] 6 21
## [1] 7 22
## [1] 8 23
## [1] 9 24
## [1] 21 24
## [1] 10 25
## [1] 22 25
## [1] "h = 3.16227766016838"
## [1] 4 6
## [1] 5 7
## [1] 1 9

```

```

## [1]  2 10
## [1]  9 11
## [1] 10 12
## [1]  6 14
## [1]  7 15
## [1]  2 16
## [1] 14 16
## [1]  1 17
## [1]  3 17
## [1] 15 17
## [1]  2 18
## [1]  4 18
## [1]  3 19
## [1]  5 19
## [1] 11 19
## [1]  4 20
## [1] 12 20
## [1]  7 21
## [1] 19 21
## [1]  6 22
## [1]  8 22
## [1] 20 22
## [1]  7 23
## [1]  9 23
## [1]  8 24
## [1] 10 24
## [1] 16 24
## [1]  9 25
## [1] 17 25
## [1] "h = 3.60555127546399"
## [1]  4 11
## [1]  5 12
## [1]  1 14
## [1]  2 15
## [1]  3 16
## [1]  9 16
## [1]  4 17
## [1] 10 17
## [1]  1 18
## [1]  5 18
## [1]  2 19
## [1]  6 19
## [1]  3 20
## [1]  7 20
## [1]  8 21
## [1] 14 21
## [1]  9 22
## [1] 15 22
## [1]  6 23
## [1] 10 23
## [1]  7 24
## [1] 11 24
## [1]  8 25
## [1] 12 25

```

```
## [1] "h = 4"
## [1] 1 5
## [1] 6 10
## [1] 11 15
## [1] 16 20
## [1] 1 21
## [1] 2 22
## [1] 3 23
## [1] 4 24
## [1] 5 25
## [1] 21 25
## [1] "h = 4.12310562561766"
## [1] 5 6
## [1] 1 10
## [1] 10 11
## [1] 6 15
## [1] 15 16
## [1] 11 20
## [1] 2 21
## [1] 20 21
## [1] 1 22
## [1] 3 22
## [1] 2 23
## [1] 4 23
## [1] 3 24
## [1] 5 24
## [1] 4 25
## [1] 16 25
```

```
spa_estim <- get_estimate_variospa(chispa, weights = "exp", summary = FALSE)
print(spa_estim)
```

```
## [1] 0.3724744 1.5253168
```

```
q <- 0.9
tmax <- 10
chitemp <- temporal_chi(simu_df, tmax = tmax, quantile = q)
```

```
## [1] "1/25"
## [1] "2/25"
## [1] "3/25"
## [1] "4/25"
## [1] "5/25"
## [1] "6/25"
## [1] "7/25"
## [1] "8/25"
## [1] "9/25"
## [1] "10/25"
## [1] "11/25"
## [1] "12/25"
## [1] "13/25"
## [1] "14/25"
## [1] "15/25"
```



```
## [1] "16/25"
## [1] "17/25"
## [1] "18/25"
## [1] "19/25"
## [1] "20/25"
## [1] "21/25"
## [1] "22/25"
## [1] "23/25"
## [1] "24/25"
## [1] "25/25"
```

```
temp_estim <- get_estimate_variotemp(chitemp, tmax, npoints = ncol(simu_df),
                                     weights = "exp", summary = FALSE)
print(temp_estim)
```

```
## [1] 0.1478522 0.9514819
```

```
df_result <- data.frame(beta1 = spa_estim[1],
                        alpha1 = spa_estim[2],
                        beta2 = temp_estim[1],
                        alpha2 = temp_estim[2])
colnames(df_result) <- c("beta1", "alpha1", "beta2", "alpha2")

df_valid <- get_criterion(df_result, true_param)
colnames(df_valid) <- c("estim", "rmse", "mae")
print(df_valid)
```

```
##           estim           rmse           mae
## beta1  0.3724744 0.02752561 0.02752561
## beta2  0.1478522 0.05214780 0.05214780
## alpha1 1.5253168 0.02531678 0.02531678
## alpha2 0.9514819 0.04851810 0.04851810
```

Optimisation

Get excesses

```
empirical_excesses <- function(data_rain, quantile, h_vect) {
  q <- quantile # quantile

  unique_tau <- unique(h_vect$tau) # unique temporal lags

  for (t in unique_tau) { # loop over temporal lags
    df_h_t <- h_vect[h_vect$tau == t, ] # get the dataframe for each lag

    for (i in seq_len(nrow(df_h_t))) { # loop over each pair of sites
      # get the indices of the sites
      ind_s2 <- as.numeric(as.character(df_h_t$s2[i]))
      ind_s1 <- df_h_t$s1[i]
```

```

# get the data for the pair of sites
rain_cp <- data_rain[, c(ind_s1, ind_s2), drop = FALSE]
rain_cp <- na.omit(rain_cp)
colnames(rain_cp) <- c("s1", "s2")

Tmax <- nrow(rain_cp) # number of time steps
rain_nolag <- rain_cp$s1[1:(Tmax - t)] # get the data without lag
rain_lag <- rain_cp$s2[(1 + t):Tmax] # get the data with lag

n <- length(rain_nolag) # number of observations
# transform the data in uniform data
rain_unif <- cbind(rank(rain_nolag) / (n + 1), rank(rain_lag) / (n + 1))
# get the conditional excesses on s2
cp_cond <- rain_unif[rain_unif[, 2] > q, , drop = FALSE]
excess_count <- sum(cp_cond[, 1] > q) # number of excesses for s1 given
# those of s2
num_cond_excesses <- nrow(cp_cond) # number excesses for s2

# store the number of excesses
h_vect$N_vect[h_vect$s1 == ind_s1 & h_vect$s2 == ind_s2 & h_vect$tau == t] <- num_cond_excesses
h_vect$n_vect[h_vect$s1 == ind_s1 & h_vect$s2 == ind_s2 & h_vect$tau == t] <- excess_count
}
}
return(h_vect)
}

q <- 0.9
excesses <- empirical_excesses(simu_df, q, h_vect)
print(head(excesses))

```

```

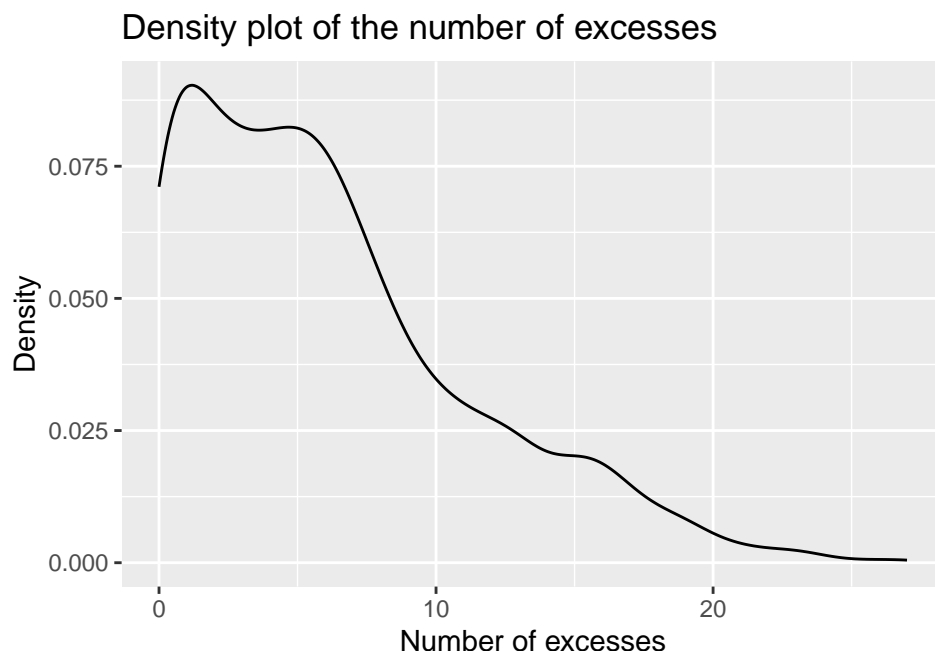
##   s1 s2 h1 h2 tau hnorm N_vect n_vect
## 1  1  2  0  1  0      1      30      22
## 2  1  2  0  1  1      1      29      21
## 3  1  2  0  1  2      1      29      21
## 4  1  2  0  1  3      1      29      21
## 5  1  2  0  1  4      1      29      20
## 6  1  2  0  1  5      1      29      19

```

```

# density plot of the number of excesses
ggplot(excesses, aes(x = n_vect)) +
  geom_density() +
  labs(title = "Density plot of the number of excesses",
       x = "Number of excesses", y = "Density")

```



Pour la simulation avec 25 sites et 300 pas de temps avec un quantile de 0.9 on obtient une bonne estimation des paramètres du modèle de Buhl séparable avec l'optimisation de la vraisemblance composite. En changeant le quantile, on garde des résultats similaires pour $q > 0.9$ et proche de 0.9. Pour $q < 0.9$, on obtient des résultats moins bons pour le paramètre α_1 .

Pour la simulation avec 49 sites et 300 pas de temps avec un quantile de 0.9 on obtient une mauvaise estimation des paramètres du modèle avec l'optimisation de la vraisemblance composite. Les alphas sont fortement sous-estimés.

Peu importe la méthode d'optimisation, on obtient des résultats similaires.

```
tau_vect <- unique(h_vect$tau)
result <- optim(par = c(true_param), fn = neg_ll,
               simu = simu_df,
               quantile = q,
               excesses = excesses,
               h_vect = h_vect, tau = tau_vect,
               locations = sites_coords,
               method = "CG",
               control = list(parscale = c(1, 1, 1, 1),
                             maxit = 10000))
```

```
## [1] 0.4 0.2 1.5 1.0
## [1] 0.401 0.200 1.500 1.000
## [1] 0.399 0.200 1.500 1.000
## [1] 0.400 0.201 1.500 1.000
## [1] 0.400 0.199 1.500 1.000
## [1] 0.400 0.200 1.501 1.000
## [1] 0.400 0.200 1.499 1.000
## [1] 0.400 0.200 1.500 1.001
## [1] 0.400 0.200 1.500 0.999
## [1] -17342.430 -20446.857 -6712.729 -7167.086
## [1] "out of bounds"
```

```

## [1] -3468.166 -4089.211 -1341.346 -1432.617
## [1] "out of bounds"
## [1] -693.3132 -817.6823 -267.0691 -285.7234
## [1] "out of bounds"
## [1] -138.34264 -163.37645 -52.21383 -56.34469
## [1] "out of bounds"
## [1] -27.348528 -32.515290 -9.242766 -10.468937
## [1] "out of bounds"
## [1] -5.1497056 -6.3430581 -0.6485532 -1.2937875
## [1] "out of bounds"
## [1] -0.7099411 -1.1086116 1.0702894 0.5412425
## [1] "out of bounds"
## [1] 0.17801178 -0.06172232 1.41405787 0.90824850
## [1] "out of bounds"
## [1] 0.3556024 0.1476555 1.4828116 0.9816497
## [1] 0.3778012 0.1738278 1.4914058 0.9908249
## [1] 0.3566024 0.1476555 1.4828116 0.9816497
## [1] 0.3546024 0.1476555 1.4828116 0.9816497
## [1] 0.3556024 0.1486555 1.4828116 0.9816497
## [1] 0.3556024 0.1466555 1.4828116 0.9816497
## [1] 0.3556024 0.1476555 1.4838116 0.9816497
## [1] 0.3556024 0.1476555 1.4818116 0.9816497
## [1] 0.3556024 0.1476555 1.4828116 0.9826497
## [1] 0.3556024 0.1476555 1.4828116 0.9806497
## [1] 0.29175289 0.08437454 1.45929903 0.96373449
## [1] 0.3236776 0.1160150 1.4710553 0.9726921
## [1] 0.3246776 0.1160150 1.4710553 0.9726921
## [1] 0.3226776 0.1160150 1.4710553 0.9726921
## [1] 0.3236776 0.1170150 1.4710553 0.9726921
## [1] 0.3236776 0.1150150 1.4710553 0.9726921
## [1] 0.3236776 0.1160150 1.4720553 0.9726921
## [1] 0.3236776 0.1160150 1.4700553 0.9726921
## [1] 0.3236776 0.1160150 1.4710553 0.9736921
## [1] 0.3236776 0.1160150 1.4710553 0.9716921
## [1] 0.2900009 0.1169053 1.4578996 0.9737595
## [1] 0.3068393 0.1164601 1.4644774 0.9732258
## [1] 0.2910009 0.1169053 1.4578996 0.9737595
## [1] 0.2890009 0.1169053 1.4578996 0.9737595
## [1] 0.2900009 0.1179053 1.4578996 0.9737595
## [1] 0.2900009 0.1159053 1.4578996 0.9737595
## [1] 0.2900009 0.1169053 1.4588996 0.9737595
## [1] 0.2900009 0.1169053 1.4568996 0.9737595
## [1] 0.2900009 0.1169053 1.4578996 0.9747595
## [1] 0.2900009 0.1169053 1.4578996 0.9727595
## [1] 0.1843475 0.1885121 1.4123918 0.9937791
## [1] 0.2688702 0.1312266 1.4487980 0.9777634
## [1] 0.2794355 0.1240659 1.4533488 0.9757615
## [1] 0.2698702 0.1312266 1.4487980 0.9777634
## [1] 0.2678702 0.1312266 1.4487980 0.9777634
## [1] 0.2688702 0.1322266 1.4487980 0.9777634
## [1] 0.2688702 0.1302266 1.4487980 0.9777634
## [1] 0.2688702 0.1312266 1.4497980 0.9777634
## [1] 0.2688702 0.1312266 1.4477980 0.9777634
## [1] 0.2688702 0.1312266 1.4487980 0.9787634

```

```

## [1] 0.2688702 0.1312266 1.4487980 0.9767634
## [1] 2517.6602 4267.0867 579.4895 1067.9058
## [1] "out of bounds"
## [1] 503.7471 853.5223 117.0569 214.3634
## [1] "out of bounds"
## [1] 100.96452 170.80945 24.57043 43.65489
## [1] "out of bounds"
## [1] 20.408001 34.266871 6.073124 9.513188
## [1] "out of bounds"
## [1] 4.296696 6.958355 2.373663 2.684848
## [1] "out of bounds"
## [1] 1.074435 1.496652 1.633771 1.319180
## [1] 0.4299833 0.4043118 1.4857926 1.0460468
## [1] 0.3010928 0.1858437 1.4561969 0.9914201
## [1] 0.2753147 0.1421500 1.4502778 0.9804948
## [1] 0.2720925 0.1366883 1.4495379 0.9791291
## [1] 0.2763147 0.1421500 1.4502778 0.9804948
## [1] 0.2743147 0.1421500 1.4502778 0.9804948
## [1] 0.2753147 0.1431500 1.4502778 0.9804948
## [1] 0.2753147 0.1411500 1.4502778 0.9804948
## [1] 0.2753147 0.1421500 1.4512778 0.9804948
## [1] 0.2753147 0.1421500 1.4492778 0.9804948
## [1] 0.2753147 0.1421500 1.4502778 0.9814948
## [1] 0.2753147 0.1421500 1.4502778 0.9794948
## [1] 0.2758918 0.1442473 1.4502660 0.9812198
## [1] 0.2756033 0.1431987 1.4502719 0.9808573
## [1] 0.2766033 0.1431987 1.4502719 0.9808573
## [1] 0.2746033 0.1431987 1.4502719 0.9808573
## [1] 0.2756033 0.1441987 1.4502719 0.9808573
## [1] 0.2756033 0.1421987 1.4502719 0.9808573
## [1] 0.2756033 0.1431987 1.4512719 0.9808573
## [1] 0.2756033 0.1431987 1.4492719 0.9808573
## [1] 0.2756033 0.1431987 1.4502719 0.9818573
## [1] 0.2756033 0.1431987 1.4502719 0.9798573
## [1] 0.2752732 0.1446605 1.4499042 0.9815788
## [1] 0.2754382 0.1439296 1.4500881 0.9812180
## [1] 0.2764382 0.1439296 1.4500881 0.9812180
## [1] 0.2744382 0.1439296 1.4500881 0.9812180
## [1] 0.2754382 0.1449296 1.4500881 0.9812180
## [1] 0.2754382 0.1429296 1.4500881 0.9812180
## [1] 0.2754382 0.1439296 1.4510881 0.9812180
## [1] 0.2754382 0.1439296 1.4490881 0.9812180
## [1] 0.2754382 0.1439296 1.4500881 0.9822180
## [1] 0.2754382 0.1439296 1.4500881 0.9802180
## [1] 0.2734071 0.1453130 1.4488267 0.9824932
## [1] 0.2744227 0.1446213 1.4494574 0.9818556
## [1] 0.2754227 0.1446213 1.4494574 0.9818556
## [1] 0.2734227 0.1446213 1.4494574 0.9818556
## [1] 0.2744227 0.1456213 1.4494574 0.9818556
## [1] 0.2744227 0.1436213 1.4494574 0.9818556
## [1] 0.2744227 0.1446213 1.4504574 0.9818556
## [1] 0.2744227 0.1446213 1.4484574 0.9818556
## [1] 0.2744227 0.1446213 1.4494574 0.9828556
## [1] 0.2744227 0.1446213 1.4494574 0.9808556

```

```

## [1] -66.681477 -107.479606 -39.485676 5.660221
## [1] "out of bounds"
## [1] -13.116757 -21.380224 -6.737569 1.917529
## [1] "out of bounds"
## [1] -2.403813 -4.160348 -0.187948 1.168990
## [1] "out of bounds"
## [1] -0.2612245 -0.7163725 1.1219763 1.0192825
## [1] "out of bounds"
## [1] 0.16729325 -0.02757749 1.38396115 0.98934099
## [1] "out of bounds"
## [1] 0.2529968 0.1101815 1.4363581 0.9833527
## [1] 0.2701375 0.1377333 1.4468375 0.9821550
## [1] 0.2735657 0.1432437 1.4489334 0.9819155
## [1] 0.2742513 0.1443458 1.4493526 0.9818676
## [1] 0.2743370 0.1444835 1.4494050 0.9818616
## [1] 0.2752513 0.1443458 1.4493526 0.9818676
## [1] 0.2732513 0.1443458 1.4493526 0.9818676
## [1] 0.2742513 0.1453458 1.4493526 0.9818676
## [1] 0.2742513 0.1433458 1.4493526 0.9818676
## [1] 0.2742513 0.1443458 1.4503526 0.9818676
## [1] 0.2742513 0.1443458 1.4483526 0.9818676
## [1] 0.2742513 0.1443458 1.4493526 0.9828676
## [1] 0.2742513 0.1443458 1.4493526 0.9808676
## [1] 0.2741837 0.1442073 1.4492199 0.9819900
## [1] 0.2742175 0.1442766 1.4492862 0.9819288
## [1] 0.2751837 0.1442073 1.4492199 0.9819900
## [1] 0.2731837 0.1442073 1.4492199 0.9819900
## [1] 0.2741837 0.1452073 1.4492199 0.9819900
## [1] 0.2741837 0.1432073 1.4492199 0.9819900
## [1] 0.2741837 0.1442073 1.4502199 0.9819900
## [1] 0.2741837 0.1442073 1.4482199 0.9819900
## [1] 0.2741837 0.1442073 1.4492199 0.9829900
## [1] 0.2741837 0.1442073 1.4492199 0.9809900
## [1] 0.2741801 0.1440408 1.4488029 0.9825181
## [1] 0.2741819 0.1441241 1.4490114 0.9822541
## [1] 0.2751801 0.1440408 1.4488029 0.9825181
## [1] 0.2731801 0.1440408 1.4488029 0.9825181
## [1] 0.2741801 0.1450408 1.4488029 0.9825181
## [1] 0.2741801 0.1430408 1.4488029 0.9825181
## [1] 0.2741801 0.1440408 1.4498029 0.9825181
## [1] 0.2741801 0.1440408 1.4478029 0.9825181
## [1] 0.2741801 0.1440408 1.4488029 0.9835181
## [1] 0.2741801 0.1440408 1.4488029 0.9815181
## [1] 0.2746606 0.1439202 1.4472711 0.9847622
## [1] 0.2744203 0.1439805 1.4480370 0.9836402
## [1] 0.2756606 0.1439202 1.4472711 0.9847622
## [1] 0.2736606 0.1439202 1.4472711 0.9847622
## [1] 0.2746606 0.1449202 1.4472711 0.9847622
## [1] 0.2746606 0.1429202 1.4472711 0.9847622
## [1] 0.2746606 0.1439202 1.4482711 0.9847622
## [1] 0.2746606 0.1439202 1.4462711 0.9847622
## [1] 0.2746606 0.1439202 1.4472711 0.9857622
## [1] 0.2746606 0.1439202 1.4472711 0.9837622
## [1] -16.698648 -96.937284 -23.288511 4.958889

```

```

## [1] "out of bounds"
## [1] -3.120001 -19.272321 -3.499885 1.779588
## [1] "out of bounds"
## [1] -0.4042717 -3.7393279 0.4578399 1.1437273
## [1] "out of bounds"
## [1] 0.1388742 -0.6327294 1.2493849 1.0165553
## [1] "out of bounds"
## [1] 0.24750334 -0.01140968 1.40769388 0.99112084
## [1] "out of bounds"
## [1] 0.2692292 0.1128543 1.4393557 0.9860340
## [1] 0.2735743 0.1377070 1.4456880 0.9850166
## [1] 0.2744434 0.1426776 1.4469545 0.9848131
## [1] 0.2746172 0.1436717 1.4472078 0.9847724
## [1] 0.2746389 0.1437960 1.4472395 0.9847673
## [1] 0.2756172 0.1436717 1.4472078 0.9847724
## [1] 0.2736172 0.1436717 1.4472078 0.9847724
## [1] 0.2746172 0.1446717 1.4472078 0.9847724
## [1] 0.2746172 0.1426717 1.4472078 0.9847724
## [1] 0.2746172 0.1436717 1.4482078 0.9847724
## [1] 0.2746172 0.1436717 1.4462078 0.9847724
## [1] 0.2746172 0.1436717 1.4472078 0.9857724
## [1] 0.2746172 0.1436717 1.4472078 0.9837724
## [1] 0.2746892 0.1434500 1.4471174 0.9848694
## [1] 0.2746532 0.1435608 1.4471626 0.9848209
## [1] 0.2756892 0.1434500 1.4471174 0.9848694
## [1] 0.2736892 0.1434500 1.4471174 0.9848694
## [1] 0.2746892 0.1444500 1.4471174 0.9848694
## [1] 0.2746892 0.1424500 1.4471174 0.9848694
## [1] 0.2746892 0.1434500 1.4481174 0.9848694
## [1] 0.2746892 0.1434500 1.4461174 0.9848694
## [1] 0.2746892 0.1434500 1.4471174 0.9858694
## [1] 0.2746892 0.1434500 1.4471174 0.9838694
## [1] 0.2751189 0.1430406 1.4468323 0.9853213
## [1] 0.2749040 0.1432453 1.4469749 0.9850954
## [1] 0.2761189 0.1430406 1.4468323 0.9853213
## [1] 0.2741189 0.1430406 1.4468323 0.9853213
## [1] 0.2751189 0.1440406 1.4468323 0.9853213
## [1] 0.2751189 0.1420406 1.4468323 0.9853213
## [1] 0.2751189 0.1430406 1.4478323 0.9853213
## [1] 0.2751189 0.1430406 1.4458323 0.9853213
## [1] 0.2751189 0.1430406 1.4468323 0.9863213
## [1] 0.2751189 0.1430406 1.4468323 0.9843213
## [1] 0.2765082 0.1424806 1.4459149 0.9869587
## [1] 0.2758135 0.1427606 1.4463736 0.9861400
## [1] 0.2768135 0.1427606 1.4463736 0.9861400
## [1] 0.2748135 0.1427606 1.4463736 0.9861400
## [1] 0.2758135 0.1437606 1.4463736 0.9861400
## [1] 0.2758135 0.1417606 1.4463736 0.9861400
## [1] 0.2758135 0.1427606 1.4473736 0.9861400
## [1] 0.2758135 0.1427606 1.4453736 0.9861400
## [1] 0.2758135 0.1427606 1.4463736 0.9871400
## [1] 0.2758135 0.1427606 1.4463736 0.9851400
## [1] -40.01220 -17.64719 -33.18522 28.57482
## [1] "out of bounds"

```

```

## [1] -7.781789 -3.415230 -5.479944 6.503875
## [1] "out of bounds"
## [1] -1.33570705 -0.56883754 0.06111002 2.08968711
## [1] "out of bounds"
## [1] -0.0464906076 0.0004409745 1.1693208873 1.2068494416
## [1] "out of bounds"
## [1] 0.2113527 0.1142967 1.3909631 1.0302819
## [1] 0.2629213 0.1370678 1.4352915 0.9949684
## [1] 0.2732351 0.1416220 1.4441572 0.9879057
## [1] 0.2752978 0.1425329 1.4459303 0.9864932
## [1] 0.2755557 0.1426467 1.4461520 0.9863166
## [1] 0.2765557 0.1426467 1.4461520 0.9863166
## [1] 0.2745557 0.1426467 1.4461520 0.9863166
## [1] 0.2755557 0.1436467 1.4461520 0.9863166
## [1] 0.2755557 0.1416467 1.4461520 0.9863166
## [1] 0.2755557 0.1426467 1.4471520 0.9863166
## [1] 0.2755557 0.1426467 1.4451520 0.9863166
## [1] 0.2755557 0.1426467 1.4461520 0.9873166
## [1] 0.2755557 0.1426467 1.4461520 0.9853166
## [1] 0.2750342 0.1430662 1.4450535 0.9877114
## [1] 0.2752949 0.1428565 1.4456027 0.9870140
## [1] 0.2760342 0.1430662 1.4450535 0.9877114
## [1] 0.2740342 0.1430662 1.4450535 0.9877114
## [1] 0.2750342 0.1440662 1.4450535 0.9877114
## [1] 0.2750342 0.1420662 1.4450535 0.9877114
## [1] 0.2750342 0.1430662 1.4460535 0.9877114
## [1] 0.2750342 0.1430662 1.4440535 0.9877114
## [1] 0.2750342 0.1430662 1.4450535 0.9887114
## [1] 0.2750342 0.1430662 1.4450535 0.9867114
## [1] 0.2747607 0.1418112 1.4415590 0.9920510
## [1] 0.2749795 0.1428152 1.4443546 0.9885793
## [1] 0.2750069 0.1429407 1.4447040 0.9881453
## [1] 0.2759795 0.1428152 1.4443546 0.9885793
## [1] 0.2739795 0.1428152 1.4443546 0.9885793
## [1] 0.2749795 0.1438152 1.4443546 0.9885793
## [1] 0.2749795 0.1418152 1.4443546 0.9885793
## [1] 0.2749795 0.1428152 1.4453546 0.9885793
## [1] 0.2749795 0.1428152 1.4433546 0.9885793
## [1] 0.2749795 0.1428152 1.4443546 0.9895793
## [1] 0.2749795 0.1428152 1.4443546 0.9875793
## [1] 0.2757695 0.1418508 1.4429766 0.9905159
## [1] 0.2753745 0.1423330 1.4436656 0.9895476
## [1] 0.2767695 0.1418508 1.4429766 0.9905159
## [1] 0.2747695 0.1418508 1.4429766 0.9905159
## [1] 0.2757695 0.1428508 1.4429766 0.9905159
## [1] 0.2757695 0.1408508 1.4429766 0.9905159
## [1] 0.2757695 0.1418508 1.4439766 0.9905159
## [1] 0.2757695 0.1418508 1.4419766 0.9905159
## [1] 0.2757695 0.1418508 1.4429766 0.9915159
## [1] 0.2757695 0.1418508 1.4429766 0.9895159
## [1] 77.107764 17.445194 3.745446 30.882927
## [1] "out of bounds"
## [1] 15.642168 3.602519 1.903470 6.968998
## [1] "out of bounds"

```



```

## [1] 3.3490492 0.8339845 1.5350753 2.1862123
## [1] "out of bounds"
## [1] 0.8904254 0.2802775 1.4613963 1.2296551
## [1] 0.3987007 0.1695361 1.4466605 1.0383437
## [1] 0.3003557 0.1473879 1.4437134 1.0000814
## [1] 0.2806867 0.1429582 1.4431239 0.9924290
## [1] 0.2767529 0.1420723 1.4430060 0.9908985
## [1] 0.2759662 0.1418951 1.4429825 0.9905924
## [1] 0.2758678 0.1418729 1.4429795 0.9905541
## [1] 0.2769662 0.1418951 1.4429825 0.9905924
## [1] 0.2749662 0.1418951 1.4429825 0.9905924
## [1] 0.2759662 0.1428951 1.4429825 0.9905924
## [1] 0.2759662 0.1408951 1.4429825 0.9905924
## [1] 0.2759662 0.1418951 1.4439825 0.9905924
## [1] 0.2759662 0.1418951 1.4419825 0.9905924
## [1] 0.2759662 0.1418951 1.4429825 0.9915924
## [1] 0.2759662 0.1418951 1.4429825 0.9895924
## [1] 0.2762849 0.1418291 1.4429572 0.9907310
## [1] 0.2761255 0.1418621 1.4429698 0.9906617
## [1] 0.2772849 0.1418291 1.4429572 0.9907310
## [1] 0.2752849 0.1418291 1.4429572 0.9907310
## [1] 0.2762849 0.1428291 1.4429572 0.9907310
## [1] 0.2762849 0.1408291 1.4429572 0.9907310
## [1] 0.2762849 0.1418291 1.4439572 0.9907310
## [1] 0.2762849 0.1418291 1.4419572 0.9907310
## [1] 0.2762849 0.1418291 1.4429572 0.9917310
## [1] 0.2762849 0.1418291 1.4429572 0.9897310
## [1] 0.2769436 0.1413190 1.4427806 0.9910973
## [1] 0.2766142 0.1415741 1.4428689 0.9909142
## [1] 0.2779436 0.1413190 1.4427806 0.9910973
## [1] 0.2759436 0.1413190 1.4427806 0.9910973
## [1] 0.2769436 0.1423190 1.4427806 0.9910973
## [1] 0.2769436 0.1403190 1.4427806 0.9910973
## [1] 0.2769436 0.1413190 1.4437806 0.9910973
## [1] 0.2769436 0.1413190 1.4417806 0.9910973
## [1] 0.2769436 0.1413190 1.4427806 0.9920973
## [1] 0.2769436 0.1413190 1.4427806 0.9900973
## [1] 0.2774962 0.1403551 1.4421961 0.9918685
## [1] 0.2770541 0.1411263 1.4426637 0.9912516
## [1] 0.2769988 0.1412227 1.4427221 0.9911745
## [1] 0.2780541 0.1411263 1.4426637 0.9912516
## [1] 0.2760541 0.1411263 1.4426637 0.9912516
## [1] 0.2770541 0.1421263 1.4426637 0.9912516
## [1] 0.2770541 0.1401263 1.4426637 0.9912516
## [1] 0.2770541 0.1411263 1.4436637 0.9912516
## [1] 0.2770541 0.1411263 1.4416637 0.9912516
## [1] 0.2770541 0.1411263 1.4426637 0.9922516
## [1] 0.2770541 0.1411263 1.4426637 0.9902516
## [1] -16.852946 4.703669 -24.917170 31.276091
## [1] "out of bounds"
## [1] -3.148946 1.053635 -3.829303 7.048219
## [1] "out of bounds"
## [1] -0.4081459 0.3236280 0.3882703 2.2026451
## [1] "out of bounds"

```

```

## [1] 0.1400141 0.1776266 1.2317850 1.2335303
## [1] 0.2496461 0.1484263 1.4004879 1.0397073
## [1] 0.2715725 0.1425863 1.4342285 1.0009427
## [1] 0.2759578 0.1414183 1.4409766 0.9931898
## [1] 0.2765060 0.1412723 1.4418201 0.9922207
## [1] 0.2775060 0.1412723 1.4418201 0.9922207
## [1] 0.2755060 0.1412723 1.4418201 0.9922207
## [1] 0.2765060 0.1422723 1.4418201 0.9922207
## [1] 0.2765060 0.1402723 1.4418201 0.9922207
## [1] 0.2765060 0.1412723 1.4428201 0.9922207
## [1] 0.2765060 0.1412723 1.4408201 0.9922207
## [1] 0.2765060 0.1412723 1.4418201 0.9932207
## [1] 0.2765060 0.1412723 1.4418201 0.9912207
## [1] 0.2787548 0.1411536 1.4374018 0.9990191
## [1] 0.2769557 0.1412485 1.4409365 0.9935804
## [1] 0.2767308 0.1412604 1.4413783 0.9929005
## [1] 0.2779557 0.1412485 1.4409365 0.9935804
## [1] 0.2759557 0.1412485 1.4409365 0.9935804
## [1] 0.2769557 0.1422485 1.4409365 0.9935804
## [1] 0.2769557 0.1402485 1.4409365 0.9935804
## [1] 0.2769557 0.1412485 1.4419365 0.9935804
## [1] 0.2769557 0.1412485 1.4399365 0.9935804
## [1] 0.2769557 0.1412485 1.4409365 0.9945804
## [1] 0.2769557 0.1412485 1.4409365 0.9925804
## [1] 0.2809065 0.1365957 1.4309943 1.0074242
## [1] 0.2789311 0.1389221 1.4359654 1.0005023
## [1] 0.2819065 0.1365957 1.4309943 1.0074242
## [1] 0.2799065 0.1365957 1.4309943 1.0074242
## [1] 0.2809065 0.1375957 1.4309943 1.0074242
## [1] 0.2809065 0.1355957 1.4309943 1.0074242
## [1] 0.2809065 0.1365957 1.4319943 1.0074242
## [1] 0.2809065 0.1365957 1.4299943 1.0074242
## [1] 0.2809065 0.1365957 1.4309943 1.0084242
## [1] 0.2809065 0.1365957 1.4309943 1.0064242
## [1] 0.2822591 0.1320428 1.4272299 1.0119906
## [1] 0.2811770 0.1356852 1.4302414 1.0083375
## [1] 0.2810417 0.1361404 1.4306178 1.0078808
## [1] 0.2820417 0.1361404 1.4306178 1.0078808
## [1] 0.2800417 0.1361404 1.4306178 1.0078808
## [1] 0.2810417 0.1371404 1.4306178 1.0078808
## [1] 0.2810417 0.1351404 1.4306178 1.0078808
## [1] 0.2810417 0.1361404 1.4316178 1.0078808
## [1] 0.2810417 0.1361404 1.4296178 1.0078808
## [1] 0.2810417 0.1361404 1.4306178 1.0088808
## [1] 0.2810417 0.1361404 1.4306178 1.0068808
## [1] 41.248115 33.034139 -1.208652 27.973211
## [1] "out of bounds"
## [1] 8.474456 6.715740 0.902764 6.400947
## [1] "out of bounds"
## [1] 1.919725 1.452060 1.325047 2.086494
## [1] "out of bounds"
## [1] 0.6087783 0.3993244 1.4095037 1.2236035
## [1] 0.3465890 0.1887772 1.4263950 1.0510254
## [1] 0.2941512 0.1466678 1.4297733 1.0165097

```

```

## [1] 0.2836636 0.1382459 1.4304489 1.0096066
## [1] 0.2815661 0.1365615 1.4305841 1.0082260
## [1] 0.2811466 0.1362247 1.4306111 1.0079499
## [1] 0.2810942 0.1361826 1.4306145 1.0079153
## [1] 0.2821466 0.1362247 1.4306111 1.0079499
## [1] 0.2801466 0.1362247 1.4306111 1.0079499
## [1] 0.2811466 0.1372247 1.4306111 1.0079499
## [1] 0.2811466 0.1352247 1.4306111 1.0079499
## [1] 0.2811466 0.1362247 1.4316111 1.0079499
## [1] 0.2811466 0.1362247 1.4296111 1.0079499
## [1] 0.2811466 0.1362247 1.4306111 1.0089499
## [1] 0.2811466 0.1362247 1.4306111 1.0069499
## [1] 0.2812485 0.1362248 1.4305688 1.0080473
## [1] 0.2811976 0.1362247 1.4305899 1.0079986
## [1] 0.2822485 0.1362248 1.4305688 1.0080473
## [1] 0.2802485 0.1362248 1.4305688 1.0080473
## [1] 0.2812485 0.1372248 1.4305688 1.0080473
## [1] 0.2812485 0.1352248 1.4305688 1.0080473
## [1] 0.2812485 0.1362248 1.4315688 1.0080473
## [1] 0.2812485 0.1362248 1.4295688 1.0080473
## [1] 0.2812485 0.1362248 1.4305688 1.0090473
## [1] 0.2812485 0.1362248 1.4305688 1.0070473
## [1] 0.2814953 0.1360485 1.4303736 1.0083702
## [1] 0.2813719 0.1361367 1.4304712 1.0082087
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## [1] 0.2808825 0.1353772 1.4297442 1.0092295
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## [1] "out of bounds"
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## [1] 0.3127927 0.2422269 1.4133105 1.0679157
## [1] 0.2880646 0.1567472 1.4264575 1.0209667
## [1] 0.2831189 0.1396512 1.4290869 1.0115770
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## [1] 0.2819320 0.1355482 1.4297180 1.0093234

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## [1] 0.2823110 0.1349676 1.4276086 1.0122357

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## [1] 7.507913 59.815003 -10.239227 33.295427
## [1] "out of bounds"
## [1] 1.7284319 12.0698868 -0.9072741 7.4711136
## [1] "out of bounds"
## [1] 0.5725357 2.5208636 0.9591165 2.3062510
## [1] "out of bounds"
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## [1] 0.2951206 0.2290980 1.4070503 1.0666839
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## [1] 0.2840240 0.1374274 1.4249676 1.0171013
## [1] 0.2836541 0.1343717 1.4255648 1.0154485
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## [1] 0.2832637 0.1339492 1.4253107 1.0155520
## [1] 0.2833931 0.1339082 1.4254552 1.0153941

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## [1] 0.2836835 0.1326143 1.4249345 1.0161650

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## [1] 0.2830053 0.1331203 1.4245273 1.0167472
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## [1] 0.2854264 0.1326580 1.4234040 1.0183747

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## [1] 0.2834264 0.1326580 1.4234040 1.0183747
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## [1] 0.2840939 0.1328733 1.4238766 1.0190247
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## [1] 4.8002177 0.9792669 0.8934663 3.7659084

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## [1] "out of bounds"
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## [1] "out of bounds"
## [1] 0.3282529 0.4949002 1.3463849 1.2235680

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## [1] 0.2866859 0.1302044 1.4172238 1.0274737

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## [1] 0.2877602 0.1300844 1.4171357 1.0276045
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## [1] 0.2865610 0.1301175 1.4176546 1.0282177
## [1] 0.2865610 0.1301175 1.4156546 1.0282177
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## [1] "out of bounds"
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## [1] "out of bounds"

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## [1] "out of bounds"
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## [1] 0.3249994 0.3395439 1.3684224 1.1586332
## [1] 0.2948425 0.1715019 1.4062744 1.0554949
## [1] 0.2888111 0.1378934 1.4138448 1.0348673

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## [1] 0.2871587 0.1295363 1.4153066 1.0302806

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## [1] "out of bounds"
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## [1] 0.2881310 0.1286349 1.4144728 1.0331596
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## [1] 0.2884431 0.1292436 1.4128209 1.0341627
## [1] 0.2884431 0.1272436 1.4128209 1.0341627
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## [1] 0.2884431 0.1282436 1.4128209 1.0351627
## [1] 0.2884431 0.1282436 1.4128209 1.0331627
## [1] 3.427806 19.329647 -3.233238 13.238908
## [1] "out of bounds"
## [1] 0.9163157 3.9685243 0.4836092 3.4751117
## [1] "out of bounds"
## [1] 0.4140176 0.8962998 1.2269785 1.5223525
## [1] 0.3135580 0.2818549 1.3756524 1.1318007
## [1] 0.2934661 0.1589659 1.4053872 1.0536903
## [1] 0.2894477 0.1343881 1.4113342 1.0380682
## [1] 0.2886440 0.1294725 1.4125235 1.0349438
## [1] 0.2884833 0.1284894 1.4127614 1.0343189
## [1] 0.2884511 0.1282928 1.4128090 1.0341940
## [1] 0.2884471 0.1282682 1.4128149 1.0341783
## [1] 0.2894511 0.1282928 1.4128090 1.0341940
## [1] 0.2874511 0.1282928 1.4128090 1.0341940
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## [1] 0.2883347 0.1282962 1.4125733 1.0344902
## [1] 0.2893119 0.1282589 1.4124891 1.0345960
## [1] 0.2873119 0.1282589 1.4124891 1.0345960
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## [1] 0.2883119 0.1282589 1.4134891 1.0345960
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## [1] 0.2883119 0.1282589 1.4124891 1.0355960
## [1] 0.2883119 0.1282589 1.4124891 1.0335960
## [1] 18.389176 10.701824 2.091838 10.032768
## [1] "out of bounds"
## [1] 3.908485 2.242972 1.548359 2.834230
## [1] "out of bounds"
## [1] 1.0123465 0.5512015 1.4396630 1.3945229
## [1] 0.4331188 0.2128474 1.4179239 1.1065814
## [1] 0.3172733 0.1451766 1.4135760 1.0489931
## [1] 0.2941042 0.1316424 1.4127065 1.0374754
## [1] 0.2894704 0.1289356 1.4125326 1.0351719
## [1] 0.2885436 0.1283942 1.4124978 1.0347112
## [1] 0.2883582 0.1282859 1.4124908 1.0346191
## [1] 0.2883351 0.1282724 1.4124900 1.0346075
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## [1] 0.2883582 0.1282859 1.4134908 1.0346191
## [1] 0.2883582 0.1282859 1.4114908 1.0346191
## [1] 0.2883582 0.1282859 1.4124908 1.0356191
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## [1] 0.2883857 0.1282812 1.4124869 1.0346356
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## [1] 0.2874131 0.1282766 1.4124830 1.0346521
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## [1] 0.2885427 0.1271768 1.4124387 1.0347517
## [1] 0.2885427 0.1281768 1.4134387 1.0347517
## [1] 0.2885427 0.1281768 1.4114387 1.0347517
## [1] 0.2885427 0.1281768 1.4124387 1.0357517
## [1] 0.2885427 0.1281768 1.4124387 1.0337517
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## [1] 0.2885906 0.1281031 1.4123811 1.0348412
## [1] 0.2896384 0.1280293 1.4123236 1.0349306
## [1] 0.2876384 0.1280293 1.4123236 1.0349306
## [1] 0.2886384 0.1290293 1.4123236 1.0349306
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## [1] 0.2886384 0.1280293 1.4133236 1.0349306
## [1] 0.2886384 0.1280293 1.4113236 1.0349306
## [1] 0.2886384 0.1280293 1.4123236 1.0359306
## [1] 0.2886384 0.1280293 1.4123236 1.0339306
## [1] 3.183163 18.193891 -3.015014 12.590167
## [1] "out of bounds"

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## [1] 0.8675434 3.7412018 0.5268561 3.3459779
## [1] "out of bounds"
## [1] 0.4044194 0.8506638 1.2352301 1.4971401
## [1] 0.3117946 0.2725562 1.3769049 1.1273725
## [1] 0.2932697 0.1569347 1.4052399 1.0534190
## [1] 0.2895647 0.1338104 1.4109069 1.0386283
## [1] 0.2888237 0.1291856 1.4120403 1.0356701
## [1] 0.2886755 0.1282606 1.4122669 1.0350785
## [1] 0.2886458 0.1280756 1.4123123 1.0349602
## [1] 0.2886421 0.1280525 1.4123179 1.0349454
## [1] 0.2896458 0.1280756 1.4123123 1.0349602
## [1] 0.2876458 0.1280756 1.4123123 1.0349602
## [1] 0.2886458 0.1290756 1.4123123 1.0349602
## [1] 0.2886458 0.1270756 1.4123123 1.0349602
## [1] 0.2886458 0.1280756 1.4133123 1.0349602
## [1] 0.2886458 0.1280756 1.4113123 1.0349602
## [1] 0.2886458 0.1280756 1.4123123 1.0359602
## [1] 0.2886458 0.1280756 1.4123123 1.0339602
## [1] 0.2886309 0.1281032 1.4122809 1.0350056
## [1] 0.2886383 0.1280894 1.4122966 1.0349829
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## [1] 0.2876309 0.1281032 1.4122809 1.0350056
## [1] 0.2886309 0.1291032 1.4122809 1.0350056
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## [1] 0.2886309 0.1281032 1.4132809 1.0350056
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## [1] 0.2885938 0.1281085 1.4122246 1.0350737
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## [1] 0.2875568 0.1281138 1.4121682 1.0351417
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## [1] 0.2885568 0.1281138 1.4131682 1.0351417
## [1] 0.2885568 0.1281138 1.4111682 1.0351417
## [1] 0.2885568 0.1281138 1.4121682 1.0361417
## [1] 0.2885568 0.1281138 1.4121682 1.0341417
## [1] 0.2885143 0.1280431 1.4120087 1.0353430
## [1] 0.2885356 0.1280784 1.4120885 1.0352424
## [1] 0.2895143 0.1280431 1.4120087 1.0353430
## [1] 0.2875143 0.1280431 1.4120087 1.0353430
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## [1] 0.2885143 0.1270431 1.4120087 1.0353430
## [1] 0.2885143 0.1280431 1.4130087 1.0353430
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## [1] 0.2885143 0.1280431 1.4120087 1.0343430
## [1] 17.370501 10.050514 2.035435 9.562388
## [1] "out of bounds"
## [1] 3.704912 2.112537 1.536694 2.740752
## [1] "out of bounds"
## [1] 0.9717938 0.5249419 1.4369458 1.3764249
## [1] 0.4251702 0.2074229 1.4169961 1.1035594

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## [1] 0.3158455 0.1439190 1.4130062 1.0489863
## [1] 0.2939806 0.1312183 1.4122082 1.0380717
## [1] 0.2896076 0.1286781 1.4120486 1.0358888
## [1] 0.2887330 0.1281701 1.4120167 1.0354522
## [1] 0.2885581 0.1280685 1.4120103 1.0353649
## [1] 0.2885362 0.1280558 1.4120095 1.0353540
## [1] 0.2895581 0.1280685 1.4120103 1.0353649
## [1] 0.2875581 0.1280685 1.4120103 1.0353649
## [1] 0.2885581 0.1290685 1.4120103 1.0353649
## [1] 0.2885581 0.1270685 1.4120103 1.0353649
## [1] 0.2885581 0.1280685 1.4130103 1.0353649
## [1] 0.2885581 0.1280685 1.4110103 1.0353649
## [1] 0.2885581 0.1280685 1.4120103 1.0363649
## [1] 0.2885581 0.1280685 1.4120103 1.0343649
## [1] 0.2886101 0.1280595 1.4120028 1.0353964
## [1] 0.2885841 0.1280640 1.4120066 1.0353806
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## [1] 0.2886101 0.1270595 1.4120028 1.0353964
## [1] 0.2886101 0.1280595 1.4130028 1.0353964
## [1] 0.2886101 0.1280595 1.4110028 1.0353964
## [1] 0.2886101 0.1280595 1.4120028 1.0363964
## [1] 0.2886101 0.1280595 1.4120028 1.0343964
## [1] 0.2887334 0.1279645 1.4119607 1.0354915
## [1] 0.2886717 0.1280120 1.4119818 1.0354440
## [1] 0.2897334 0.1279645 1.4119607 1.0354915
## [1] 0.2877334 0.1279645 1.4119607 1.0354915
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## [1] 0.2887334 0.1269645 1.4119607 1.0354915
## [1] 0.2887334 0.1279645 1.4129607 1.0354915
## [1] 0.2887334 0.1279645 1.4109607 1.0354915
## [1] 0.2887334 0.1279645 1.4119607 1.0364915
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## [1] 0.2887787 0.1278950 1.4119061 1.0355768
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## [1] 0.2878241 0.1278255 1.4118516 1.0356620
## [1] 0.2888241 0.1288255 1.4118516 1.0356620
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## [1] 0.2888241 0.1278255 1.4128516 1.0356620
## [1] 0.2888241 0.1278255 1.4108516 1.0356620
## [1] 0.2888241 0.1278255 1.4118516 1.0366620
## [1] 0.2888241 0.1278255 1.4118516 1.0346620
## [1] 2.957466 17.133280 -2.807144 11.978698
## [1] "out of bounds"
## [1] 0.8225525 3.5289163 0.5680525 3.2242693
## [1] "out of bounds"
## [1] 0.3955698 0.8080437 1.2430917 1.4733835
## [1] 0.3101732 0.2638691 1.3780996 1.1232063
## [1] 0.2930939 0.1550342 1.4051012 1.0531709
## [1] 0.2896781 0.1332672 1.4105015 1.0391638
## [1] 0.2889949 0.1289138 1.4115815 1.0363624
## [1] 0.2888582 0.1280432 1.4117976 1.0358021

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## [1] 0.2888309 0.1278690 1.4118408 1.0356900
## [1] 0.2888275 0.1278473 1.4118462 1.0356760
## [1] 0.2898309 0.1278690 1.4118408 1.0356900
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## [1] 0.2888309 0.1268690 1.4118408 1.0356900
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## [1] 0.2888238 0.1278821 1.4118258 1.0357117
## [1] 0.2898166 0.1278951 1.4118109 1.0357333
## [1] 0.2878166 0.1278951 1.4118109 1.0357333
## [1] 0.2888166 0.1288951 1.4118109 1.0357333
## [1] 0.2888166 0.1268951 1.4118109 1.0357333
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## [1] 0.2888166 0.1278951 1.4118109 1.0367333
## [1] 0.2888166 0.1278951 1.4118109 1.0347333
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## [1] 0.2877461 0.1279049 1.4117037 1.0358630
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## [1] 0.2887461 0.1279049 1.4127037 1.0358630
## [1] 0.2887461 0.1279049 1.4107037 1.0358630
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## [1] 0.2877066 0.1278379 1.4115527 1.0360546
## [1] 0.2887066 0.1288379 1.4115527 1.0360546
## [1] 0.2887066 0.1268379 1.4115527 1.0360546
## [1] 0.2887066 0.1278379 1.4125527 1.0360546
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## [1] 0.2887066 0.1278379 1.4115527 1.0370546
## [1] 0.2887066 0.1278379 1.4115527 1.0350546
## [1] 16.417431 9.443377 1.985046 9.117866
## [1] "out of bounds"
## [1] 3.514452 1.990946 1.526251 2.652417
## [1] "out of bounds"
## [1] 0.9338556 0.5004595 1.4344924 1.3593271
## [1] 0.4177364 0.2023623 1.4161406 1.1007091
## [1] 0.3145126 0.1427428 1.4124702 1.0489855
## [1] 0.2938678 0.1308189 1.4117362 1.0386408
## [1] 0.2897389 0.1284341 1.4115894 1.0365718
## [1] 0.2889131 0.1279572 1.4115600 1.0361580
## [1] 0.2887479 0.1278618 1.4115541 1.0360753
## [1] 0.2887273 0.1278499 1.4115534 1.0360649
## [1] 0.2897479 0.1278618 1.4115541 1.0360753
## [1] 0.2877479 0.1278618 1.4115541 1.0360753

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## [1] 0.2887479 0.1288618 1.4115541 1.0360753
## [1] 0.2887479 0.1268618 1.4115541 1.0360753
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## [1] 0.2887479 0.1278618 1.4115541 1.0350753
## [1] 0.2887973 0.1278532 1.4115470 1.0361053
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## [1] 0.2877973 0.1278532 1.4115470 1.0361053
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## [1] 0.2887973 0.1268532 1.4115470 1.0361053
## [1] 0.2887973 0.1278532 1.4125470 1.0361053
## [1] 0.2887973 0.1278532 1.4105470 1.0361053
## [1] 0.2887973 0.1278532 1.4115470 1.0371053
## [1] 0.2887973 0.1278532 1.4115470 1.0351053
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## [1] 0.2899146 0.1277627 1.4115069 1.0361962
## [1] 0.2879146 0.1277627 1.4115069 1.0361962
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## [1] 0.2889146 0.1277627 1.4125069 1.0361962
## [1] 0.2889146 0.1277627 1.4105069 1.0361962
## [1] 0.2889146 0.1277627 1.4115069 1.0371962
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## [1] 2.749195 16.141942 -2.609132 11.402025
## [1] "out of bounds"
## [1] 0.7810395 3.3304938 0.6072964 3.1094919
## [1] "out of bounds"
## [1] 0.3874084 0.7682040 1.2505820 1.4509853
## [1] 0.3086821 0.2557461 1.3792392 1.1192840
## [1] 0.2929369 0.1532545 1.4049706 1.0529437
## [1] 0.2897878 0.1327562 1.4101169 1.0396756
## [1] 0.2891580 0.1286565 1.4111461 1.0370220
## [1] 0.2890321 0.1278366 1.4113520 1.0364913
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## [1] 0.2890037 0.1276521 1.4113983 1.0363719
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## [1] 0.2880069 0.1276726 1.4113932 1.0363852
## [1] 0.2890069 0.1286726 1.4113932 1.0363852
## [1] 0.2890069 0.1266726 1.4113932 1.0363852
## [1] 0.2890069 0.1276726 1.4123932 1.0363852
## [1] 0.2890069 0.1276726 1.4103932 1.0363852

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## [1] 0.2890069 0.1276726 1.4113932 1.0373852
## [1] 0.2890069 0.1276726 1.4113932 1.0353852
## [1] 0.2889932 0.1276973 1.4113648 1.0364264
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## [1] 0.2889932 0.1276973 1.4113648 1.0354264
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## [1] 0.2879261 0.1277062 1.4112627 1.0365501
## [1] 0.2889261 0.1287062 1.4112627 1.0365501
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## [1] 0.2889261 0.1277062 1.4102627 1.0365501
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## [1] 0.2889077 0.1276746 1.4111912 1.0366412
## [1] 0.2898893 0.1276429 1.4111197 1.0367323
## [1] 0.2878893 0.1276429 1.4111197 1.0367323
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## [1] 0.2888893 0.1276429 1.4121197 1.0367323
## [1] 0.2888893 0.1276429 1.4101197 1.0367323
## [1] 0.2888893 0.1276429 1.4111197 1.0377323
## [1] 0.2888893 0.1276429 1.4111197 1.0357323
## [1] 15.524993 8.877179 1.939968 8.697676
## [1] "out of bounds"
## [1] 3.336110 1.877550 1.516889 2.568921
## [1] "out of bounds"
## [1] 0.8983335 0.4776243 1.4322736 1.3431701
## [1] 0.4107781 0.1976392 1.4153505 1.0980199
## [1] 0.3132671 0.1416421 1.4119658 1.0489898
## [1] 0.2937649 0.1304427 1.4112889 1.0391838
## [1] 0.2898644 0.1282028 1.4111535 1.0372226
## [1] 0.2890843 0.1277549 1.4111264 1.0368304
## [1] 0.2889283 0.1276653 1.4111210 1.0367519
## [1] 0.2889088 0.1276541 1.4111204 1.0367421
## [1] 0.2899283 0.1276653 1.4111210 1.0367519
## [1] 0.2879283 0.1276653 1.4111210 1.0367519
## [1] 0.2889283 0.1286653 1.4111210 1.0367519
## [1] 0.2889283 0.1266653 1.4111210 1.0367519
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## [1] 0.2889283 0.1276653 1.4111210 1.0357519
## [1] 0.2889753 0.1276570 1.4111143 1.0367806
## [1] 0.2889518 0.1276611 1.4111177 1.0367662

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## [1] 0.2899753 0.1276570 1.4111143 1.0367806
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## [1] 0.2900868 0.1275709 1.4110761 1.0368673
## [1] 0.2880868 0.1275709 1.4110761 1.0368673
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## [1] 0.2890868 0.1265709 1.4110761 1.0368673
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## [1] 0.2890868 0.1275709 1.4110761 1.0378673
## [1] 0.2890868 0.1275709 1.4110761 1.0358673
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## [1] 0.2891275 0.1275090 1.4110271 1.0369447
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## [1] 0.2891683 0.1274471 1.4109780 1.0380221
## [1] 0.2891683 0.1274471 1.4109780 1.0360221
## [1] 2.556958 15.214529 -2.420504 10.857867
## [1] "out of bounds"
## [1] 0.7427263 3.1448634 0.6446816 3.0011910
## [1] "out of bounds"
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## [1] 0.3073106 0.2481438 1.3803262 1.1155888
## [1] 0.2927968 0.1515864 1.4048477 1.0527354
## [1] 0.289894 0.132275 1.409752 1.040165
## [1] 0.2893135 0.1284127 1.4107328 1.0376506
## [1] 0.2891974 0.1276402 1.4109290 1.0371478
## [1] 0.2891741 0.1274857 1.4109682 1.0370472
## [1] 0.2891712 0.1274664 1.4109731 1.0370347
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## [1] 0.2881741 0.1274857 1.4109682 1.0370472
## [1] 0.2891741 0.1284857 1.4109682 1.0370472
## [1] 0.2891741 0.1264857 1.4109682 1.0370472
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## [1] 0.2891741 0.1274857 1.4099682 1.0370472
## [1] 0.2891741 0.1274857 1.4109682 1.0380472
## [1] 0.2891741 0.1274857 1.4109682 1.0360472
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## [1] 0.2891676 0.1274974 1.4109547 1.0370668
## [1] 0.2901611 0.1275091 1.4109412 1.0370865
## [1] 0.2881611 0.1275091 1.4109412 1.0370865
## [1] 0.2891611 0.1285091 1.4109412 1.0370865
## [1] 0.2891611 0.1265091 1.4109412 1.0370865

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## [1] 0.2891611 0.1275091 1.4119412 1.0370865
## [1] 0.2891611 0.1275091 1.4099412 1.0370865
## [1] 0.2891611 0.1275091 1.4109412 1.0380865
## [1] 0.2891611 0.1275091 1.4109412 1.0360865
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## [1] 0.2891291 0.1275133 1.4108927 1.0371454
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## [1] 0.2880972 0.1275174 1.4108441 1.0372044
## [1] 0.2890972 0.1285174 1.4108441 1.0372044
## [1] 0.2890972 0.1265174 1.4108441 1.0372044
## [1] 0.2890972 0.1275174 1.4118441 1.0372044
## [1] 0.2890972 0.1275174 1.4098441 1.0372044
## [1] 0.2890972 0.1275174 1.4108441 1.0382044
## [1] 0.2890972 0.1275174 1.4108441 1.0362044
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## [1] 0.2890800 0.1274874 1.4107763 1.0372911
## [1] 0.2900628 0.1274574 1.4107086 1.0373778
## [1] 0.2880628 0.1274574 1.4107086 1.0373778
## [1] 0.2890628 0.1284574 1.4107086 1.0373778
## [1] 0.2890628 0.1264574 1.4107086 1.0373778
## [1] 0.2890628 0.1274574 1.4117086 1.0373778
## [1] 0.2890628 0.1274574 1.4097086 1.0373778
## [1] 0.2890628 0.1274574 1.4107086 1.0383778
## [1] 0.2890628 0.1274574 1.4107086 1.0363778
## [1] 14.688674 8.348957 1.899589 8.300397
## [1] "out of bounds"
## [1] 3.168985 1.771757 1.508485 2.489982
## [1] "out of bounds"
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## [1] 0.4042597 0.1932294 1.4146196 1.0954819
## [1] 0.3121022 0.1406118 1.4114908 1.0489986
## [1] 0.2936707 0.1300883 1.4108650 1.0397019
## [1] 0.2899844 0.1279836 1.4107399 1.0378426
## [1] 0.2892472 0.1275626 1.4107149 1.0374707
## [1] 0.2890997 0.1274784 1.4107098 1.0373964
## [1] 0.2890813 0.1274679 1.4107092 1.0373871
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## [1] 0.2890997 0.1284784 1.4107098 1.0373964
## [1] 0.2890997 0.1264784 1.4107098 1.0373964
## [1] 0.2890997 0.1274784 1.4117098 1.0373964
## [1] 0.2890997 0.1274784 1.4097098 1.0373964
## [1] 0.2890997 0.1274784 1.4107098 1.0383964
## [1] 0.2890997 0.1274784 1.4107098 1.0363964
## [1] 0.2891443 0.1274705 1.4107034 1.0374237
## [1] 0.2891220 0.1274745 1.4107066 1.0374100
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## [1] 0.2891443 0.1274705 1.4107034 1.0364237

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## [1] 0.2892504 0.1273885 1.4106672 1.0375065
## [1] 0.2891974 0.1274295 1.4106853 1.0374651
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## [1] 0.2882504 0.1273885 1.4106672 1.0375065
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## [1] 0.2892504 0.1273885 1.4116672 1.0375065
## [1] 0.2892504 0.1273885 1.4096672 1.0375065
## [1] 0.2892504 0.1273885 1.4106672 1.0385065
## [1] 0.2892504 0.1273885 1.4106672 1.0365065
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## [1] 0.2883278 0.1272716 1.4105741 1.0376539
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## [1] 2.379476 14.346150 -2.240811 10.344118
## [1] "out of bounds"
## [1] 0.7073574 2.9710473 0.6802971 2.8989468
## [1] "out of bounds"
## [1] 0.3729337 0.6960268 1.2645187 1.4099125
## [1] 0.3060490 0.2410227 1.3813631 1.1121056
## [1] 0.2926720 0.1500219 1.4047319 1.0525442
## [1] 0.2899966 0.1318217 1.4094057 1.0406320
## [1] 0.2894616 0.1281817 1.4103404 1.0382495
## [1] 0.2893545 0.1274536 1.4105274 1.0377730
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## [1] 0.2893305 0.1272898 1.4105695 1.0376658
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## [1] 0.2893331 0.1283080 1.4105648 1.0376777
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## [1] 0.2893269 0.1273191 1.4105519 1.0376964
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## [1] 0.2893207 0.1273302 1.4105391 1.0387151
## [1] 0.2893207 0.1273302 1.4105391 1.0367151
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## [1] 0.2892902 0.1273340 1.4104929 1.0377713
## [1] 0.2902598 0.1273378 1.4104466 1.0378275
## [1] 0.2882598 0.1273378 1.4104466 1.0378275

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## [1] 0.2892598 0.1283378 1.4104466 1.0378275
## [1] 0.2892598 0.1263378 1.4104466 1.0378275
## [1] 0.2892598 0.1273378 1.4114466 1.0378275
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## [1] 0.2892598 0.1273378 1.4104466 1.0368275
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## [1] 0.2892438 0.1273094 1.4103825 1.0379100
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## [1] 0.2882277 0.1272810 1.4103183 1.0379925
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## [1] 0.2892277 0.1272810 1.4113183 1.0379925
## [1] 0.2892277 0.1272810 1.4093183 1.0379925
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## [1] 13.904375 7.856003 1.863375 7.924706
## [1] "out of bounds"
## [1] 3.012257 1.673025 1.500930 2.415335
## [1] "out of bounds"
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## [1] 0.3981489 0.1891108 1.4139427 1.0930862
## [1] 0.311012 0.139647 1.411043 1.049011
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## [1] 0.2894060 0.1272151 1.4092789 1.0381152

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## [1] 0.2894060 0.1272151 1.4102789 1.0391152
## [1] 0.2894060 0.1272151 1.4102789 1.0371152
## [1] 0.2894794 0.1271047 1.4101906 1.0382556
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## [1] 0.2894794 0.1281047 1.4101906 1.0382556
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## [1] 0.2894794 0.1271047 1.4101906 1.0372556
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## [1] "out of bounds"
## [1] 0.6746976 2.8081502 0.7142275 2.8023709
## [1] "out of bounds"
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## [1] 0.3048881 0.2343465 1.3823521 1.1088202
## [1] 0.2925611 0.1485531 1.4046229 1.0523685
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## [1] 0.2894818 0.1271219 1.4101862 1.0382669
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## [1] 0.2894843 0.1281390 1.4101817 1.0382782
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## [1] 0.2894724 0.1271600 1.4091573 1.0383138
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## [1] 0.2894144 0.1261671 1.4100693 1.0384209
## [1] 0.2894144 0.1271671 1.4110693 1.0384209
## [1] 0.2894144 0.1271671 1.4090693 1.0384209
## [1] 0.2894144 0.1271671 1.4100693 1.0394209
## [1] 0.2894144 0.1271671 1.4100693 1.0374209
## [1] 0.2893844 0.1271133 1.4099476 1.0385779
## [1] 0.2893994 0.1271402 1.4100085 1.0384994

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## [1] 0.2903844 0.1271133 1.4099476 1.0385779
## [1] 0.2883844 0.1271133 1.4099476 1.0385779
## [1] 0.2893844 0.1281133 1.4099476 1.0385779
## [1] 0.2893844 0.1261133 1.4099476 1.0385779
## [1] 0.2893844 0.1271133 1.4109476 1.0385779
## [1] 0.2893844 0.1271133 1.4089476 1.0385779
## [1] 0.2893844 0.1271133 1.4099476 1.0395779
## [1] 0.2893844 0.1271133 1.4099476 1.0375779
## [1] 13.168374 7.395838 1.830865 7.569368
## [1] "out of bounds"
## [1] 2.865182 1.580858 1.494131 2.344736
## [1] "out of bounds"
## [1] 0.8045440 0.4178623 1.4267843 1.2998095
## [1] 0.3924163 0.1852631 1.4133150 1.0908242
## [1] 0.3099908 0.1387432 1.4106211 1.0490272
## [1] 0.2935057 0.1294393 1.4100823 1.0406678
## [1] 0.2902087 0.1275785 1.4099746 1.0389959
## [1] 0.2895492 0.1272063 1.4099530 1.0386615
## [1] 0.2894174 0.1271319 1.4099487 1.0385946
## [1] 0.2894009 0.1271226 1.4099482 1.0385863
## [1] 0.2904174 0.1271319 1.4099487 1.0385946
## [1] 0.2884174 0.1271319 1.4099487 1.0385946
## [1] 0.2894174 0.1281319 1.4099487 1.0385946
## [1] 0.2894174 0.1261319 1.4099487 1.0385946
## [1] 0.2894174 0.1271319 1.4109487 1.0385946
## [1] 0.2894174 0.1271319 1.4089487 1.0385946
## [1] 0.2894174 0.1271319 1.4099487 1.0395946
## [1] 0.2894174 0.1271319 1.4099487 1.0375946
## [1] 0.2894577 0.1271246 1.4099429 1.0386195
## [1] 0.2894375 0.1271283 1.4099458 1.0386070
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## [1] 0.2884577 0.1271246 1.4099429 1.0386195
## [1] 0.2894577 0.1281246 1.4099429 1.0386195
## [1] 0.2894577 0.1261246 1.4099429 1.0386195
## [1] 0.2894577 0.1271246 1.4109429 1.0386195
## [1] 0.2894577 0.1271246 1.4089429 1.0386195
## [1] 0.2894577 0.1271246 1.4099429 1.0396195
## [1] 0.2894577 0.1271246 1.4099429 1.0376195
## [1] 0.2895538 0.1270502 1.4099102 1.0386949
## [1] 0.2895057 0.1270874 1.4099265 1.0386572
## [1] 0.2905538 0.1270502 1.4099102 1.0386949
## [1] 0.2885538 0.1270502 1.4099102 1.0386949
## [1] 0.2895538 0.1280502 1.4099102 1.0386949
## [1] 0.2895538 0.1260502 1.4099102 1.0386949
## [1] 0.2895538 0.1270502 1.4109102 1.0386949
## [1] 0.2895538 0.1270502 1.4089102 1.0386949
## [1] 0.2895538 0.1270502 1.4099102 1.0396949
## [1] 0.2895538 0.1270502 1.4099102 1.0376949
## [1] 0.2896234 0.1269460 1.4098265 1.0388285
## [1] 0.2895886 0.1269981 1.4098683 1.0387617
## [1] 0.2906234 0.1269460 1.4098265 1.0388285
## [1] 0.2886234 0.1269460 1.4098265 1.0388285
## [1] 0.2896234 0.1279460 1.4098265 1.0388285
## [1] 0.2896234 0.1259460 1.4098265 1.0388285

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## [1] 0.2896234 0.1269460 1.4108265 1.0388285
## [1] 0.2896234 0.1269460 1.4088265 1.0388285
## [1] 0.2896234 0.1269460 1.4098265 1.0398285
## [1] 0.2896234 0.1269460 1.4098265 1.0378285
## [1] 2.064157 12.768968 -1.906539 9.400205
## [1] "out of bounds"
## [1] 0.6445301 2.6553504 0.7465533 2.7111038
## [1] "out of bounds"
## [1] 0.3606048 0.6326268 1.2771719 1.3732836
## [1] 0.3038197 0.2280821 1.3832956 1.1057195
## [1] 0.2924627 0.1471732 1.4045203 1.0522067
## [1] 0.2901913 0.1309914 1.4087653 1.0415042
## [1] 0.289737 0.127755 1.409614 1.039364
## [1] 0.2896461 0.1271078 1.4097841 1.0389356
## [1] 0.2896280 0.1269783 1.4098180 1.0388499
## [1] 0.2896257 0.1269621 1.4098223 1.0388392
## [1] 0.2906280 0.1269783 1.4098180 1.0388499
## [1] 0.2886280 0.1269783 1.4098180 1.0388499
## [1] 0.2896280 0.1279783 1.4098180 1.0388499
## [1] 0.2896280 0.1259783 1.4098180 1.0388499
## [1] 0.2896280 0.1269783 1.4108180 1.0388499
## [1] 0.2896280 0.1269783 1.4088180 1.0388499
## [1] 0.2896280 0.1269783 1.4098180 1.0398499
## [1] 0.2896280 0.1269783 1.4098180 1.0378499
## [1] 0.2896166 0.1269982 1.4097947 1.0388838
## [1] 0.2896223 0.1269883 1.4098064 1.0388669
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## [1] 0.2886166 0.1269982 1.4097947 1.0388838
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## [1] 0.2896166 0.1269982 1.4107947 1.0388838
## [1] 0.2896166 0.1269982 1.4087947 1.0388838
## [1] 0.2896166 0.1269982 1.4097947 1.0398838
## [1] 0.2896166 0.1269982 1.4097947 1.0378838
## [1] 0.2895613 0.1270048 1.4097110 1.0389860
## [1] 0.2895889 0.1270015 1.4097529 1.0389349
## [1] 0.2905613 0.1270048 1.4097110 1.0389860
## [1] 0.2885613 0.1270048 1.4097110 1.0389860
## [1] 0.2895613 0.1280048 1.4097110 1.0389860
## [1] 0.2895613 0.1260048 1.4097110 1.0389860
## [1] 0.2895613 0.1270048 1.4107110 1.0389860
## [1] 0.2895613 0.1270048 1.4087110 1.0389860
## [1] 0.2895613 0.1270048 1.4097110 1.0399860
## [1] 0.2895613 0.1270048 1.4097110 1.0379860
## [1] 0.2895333 0.1269538 1.4095956 1.0391354
## [1] 0.2895473 0.1269793 1.4096533 1.0390607
## [1] 0.2905333 0.1269538 1.4095956 1.0391354
## [1] 0.2885333 0.1269538 1.4095956 1.0391354
## [1] 0.2895333 0.1279538 1.4095956 1.0391354
## [1] 0.2895333 0.1259538 1.4095956 1.0391354
## [1] 0.2895333 0.1269538 1.4105956 1.0391354
## [1] 0.2895333 0.1269538 1.4085956 1.0391354
## [1] 0.2895333 0.1269538 1.4095956 1.0401354
## [1] 0.2895333 0.1269538 1.4095956 1.0381354

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## [1] 12.477285 6.966199 1.801658 7.233230
## [1] "out of bounds"
## [1] 2.727084 1.494803 1.488008 2.277954
## [1] "out of bounds"
## [1] 0.7770433 0.4005236 1.4252781 1.2868992
## [1] 0.3870353 0.1816677 1.4127321 1.0886881
## [1] 0.3090337 0.1378966 1.4102229 1.0490459
## [1] 0.2934333 0.1291423 1.4097211 1.0411175
## [1] 0.2903133 0.1273915 1.4096207 1.0395318
## [1] 0.2896893 0.1270413 1.4096007 1.0392147
## [1] 0.2895645 0.1269713 1.4095966 1.0391512
## [1] 0.2895489 0.1269625 1.4095961 1.0391433
## [1] 0.2905645 0.1269713 1.4095966 1.0391512
## [1] 0.2885645 0.1269713 1.4095966 1.0391512
## [1] 0.2895645 0.1279713 1.4095966 1.0391512
## [1] 0.2895645 0.1259713 1.4095966 1.0391512
## [1] 0.2895645 0.1269713 1.4105966 1.0391512
## [1] 0.2895645 0.1269713 1.4085966 1.0391512
## [1] 0.2895645 0.1269713 1.4095966 1.0401512
## [1] 0.2895645 0.1269713 1.4095966 1.0381512
## [1] 0.2896028 0.1269643 1.4095911 1.0391749
## [1] 0.2895836 0.1269678 1.4095939 1.0391631
## [1] 0.2906028 0.1269643 1.4095911 1.0391749
## [1] 0.2886028 0.1269643 1.4095911 1.0391749
## [1] 0.2896028 0.1279643 1.4095911 1.0391749
## [1] 0.2896028 0.1259643 1.4095911 1.0391749
## [1] 0.2896028 0.1269643 1.4105911 1.0391749
## [1] 0.2896028 0.1269643 1.4085911 1.0391749
## [1] 0.2896028 0.1269643 1.4095911 1.0401749
## [1] 0.2896028 0.1269643 1.4095911 1.0381749
## [1] 0.2896943 0.1268934 1.4095600 1.0392469
## [1] 0.2896486 0.1269289 1.4095756 1.0392109
## [1] 0.2906943 0.1268934 1.4095600 1.0392469
## [1] 0.2886943 0.1268934 1.4095600 1.0392469
## [1] 0.2896943 0.1278934 1.4095600 1.0392469
## [1] 0.2896943 0.1258934 1.4095600 1.0392469
## [1] 0.2896943 0.1268934 1.4105600 1.0392469
## [1] 0.2896943 0.1268934 1.4085600 1.0392469
## [1] 0.2896943 0.1268934 1.4095600 1.0402469
## [1] 0.2896943 0.1268934 1.4095600 1.0382469
## [1] 0.2897604 0.1267949 1.4094807 1.0393741
## [1] 0.2897273 0.1268442 1.4095204 1.0393105
## [1] 0.2907604 0.1267949 1.4094807 1.0393741
## [1] 0.2887604 0.1267949 1.4094807 1.0393741
## [1] 0.2897604 0.1277949 1.4094807 1.0393741
## [1] 0.2897604 0.1257949 1.4094807 1.0393741
## [1] 0.2897604 0.1267949 1.4104807 1.0393741
## [1] 0.2897604 0.1267949 1.4084807 1.0393741
## [1] 0.2897604 0.1267949 1.4094807 1.0403741
## [1] 0.2897604 0.1267949 1.4094807 1.0383741
## [1] 1.924232 12.052282 -1.751169 8.966561
## [1] "out of bounds"
## [1] 0.6166548 2.5118923 0.7773507 2.6248114
## [1] "out of bounds"

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## [1] 0.3551393 0.6038144 1.2830547 1.3564616
## [1] 0.3028361 0.2221988 1.3841955 1.1027916
## [1] 0.2923755 0.1458757 1.4044237 1.0520576
## [1] 0.2902834 0.1306111 1.4084693 1.0419108
## [1] 0.2898650 0.1275582 1.4092784 1.0398814
## [1] 0.2897813 0.1269476 1.4094403 1.0394756
## [1] 0.2897646 0.1268255 1.4094726 1.0393944
## [1] 0.2897625 0.1268102 1.4094767 1.0393842
## [1] 0.2907646 0.1268255 1.4094726 1.0393944
## [1] 0.2887646 0.1268255 1.4094726 1.0393944
## [1] 0.2897646 0.1278255 1.4094726 1.0393944
## [1] 0.2897646 0.1258255 1.4094726 1.0393944
## [1] 0.2897646 0.1268255 1.4104726 1.0393944
## [1] 0.2897646 0.1268255 1.4084726 1.0393944
## [1] 0.2897646 0.1268255 1.4094726 1.0403944
## [1] 0.2897646 0.1268255 1.4094726 1.0383944
## [1] 0.2897537 0.1268443 1.4094505 1.0394267
## [1] 0.2897591 0.1268349 1.4094615 1.0394105
## [1] 0.2907537 0.1268443 1.4094505 1.0394267
## [1] 0.2887537 0.1268443 1.4094505 1.0394267
## [1] 0.2897537 0.1278443 1.4094505 1.0394267
## [1] 0.2897537 0.1258443 1.4094505 1.0394267
## [1] 0.2897537 0.1268443 1.4104505 1.0394267
## [1] 0.2897537 0.1268443 1.4084505 1.0394267
## [1] 0.2897537 0.1268443 1.4094505 1.0404267
## [1] 0.2897537 0.1268443 1.4094505 1.0384267
## [1] 0.2897010 0.1268504 1.4093707 1.0395241
## [1] 0.2897273 0.1268474 1.4094106 1.0394754
## [1] 0.2907010 0.1268504 1.4093707 1.0395241
## [1] 0.2887010 0.1268504 1.4093707 1.0395241
## [1] 0.2897010 0.1278504 1.4093707 1.0395241
## [1] 0.2897010 0.1258504 1.4093707 1.0395241
## [1] 0.2897010 0.1268504 1.4103707 1.0395241
## [1] 0.2897010 0.1268504 1.4083707 1.0395241
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## [1] 0.2896878 0.1268263 1.4093161 1.0395951
## [1] 0.2906747 0.1268021 1.4092614 1.0396662
## [1] 0.2886747 0.1268021 1.4092614 1.0396662
## [1] 0.2896747 0.1278021 1.4092614 1.0396662
## [1] 0.2896747 0.1258021 1.4092614 1.0396662
## [1] 0.2896747 0.1268021 1.4102614 1.0396662
## [1] 0.2896747 0.1268021 1.4082614 1.0396662
## [1] 0.2896747 0.1268021 1.4092614 1.0406662
## [1] 0.2896747 0.1268021 1.4092614 1.0386662
## [1] 11.828032 6.565021 1.775409 6.915220
## [1] "out of bounds"
## [1] 2.597346 1.414446 1.482491 2.214777
## [1] "out of bounds"
## [1] 0.7512090 0.3843308 1.4239073 1.2746884
## [1] 0.3819816 0.1783078 1.4121906 1.0866706
## [1] 0.3081361 0.1371032 1.4098472 1.0490671
## [1] 0.2933670 0.1288623 1.4093785 1.0415464

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## [1] 0.2904132 0.1272141 1.4092848 1.0400423
## [1] 0.2898224 0.1268845 1.4092661 1.0397414
## [1] 0.2897042 0.1268186 1.4092623 1.0396813
## [1] 0.2896895 0.1268103 1.4092618 1.0396737
## [1] 0.2907042 0.1268186 1.4092623 1.0396813
## [1] 0.2887042 0.1268186 1.4092623 1.0396813
## [1] 0.2897042 0.1278186 1.4092623 1.0396813
## [1] 0.2897042 0.1258186 1.4092623 1.0396813
## [1] 0.2897042 0.1268186 1.4102623 1.0396813
## [1] 0.2897042 0.1268186 1.4082623 1.0396813
## [1] 0.2897042 0.1268186 1.4092623 1.0406813
## [1] 0.2897042 0.1268186 1.4092623 1.0386813
## [1] 0.2897408 0.1268119 1.4092571 1.0397038
## [1] 0.2897225 0.1268152 1.4092597 1.0396925
## [1] 0.2907408 0.1268119 1.4092571 1.0397038
## [1] 0.2887408 0.1268119 1.4092571 1.0397038
## [1] 0.2897408 0.1278119 1.4092571 1.0397038
## [1] 0.2897408 0.1258119 1.4092571 1.0397038
## [1] 0.2897408 0.1268119 1.4102571 1.0397038
## [1] 0.2897408 0.1268119 1.4082571 1.0397038
## [1] 0.2897408 0.1268119 1.4092571 1.0407038
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## [1] 0.2898278 0.1267443 1.4092276 1.0397724
## [1] 0.2897843 0.1267781 1.4092423 1.0397381
## [1] 0.2908278 0.1267443 1.4092276 1.0397724
## [1] 0.2888278 0.1267443 1.4092276 1.0397724
## [1] 0.2898278 0.1277443 1.4092276 1.0397724
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## [1] 0.2908905 0.1266513 1.4091523 1.0398935
## [1] 0.2888905 0.1266513 1.4091523 1.0398935
## [1] 0.2898905 0.1276513 1.4091523 1.0398935
## [1] 0.2898905 0.1256513 1.4091523 1.0398935
## [1] 0.2898905 0.1266513 1.4101523 1.0398935
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## [1] 0.2898905 0.1266513 1.4091523 1.0408935
## [1] 0.2898905 0.1266513 1.4091523 1.0388935
## [1] 1.794868 11.378787 -1.603149 8.556339
## [1] "out of bounds"
## [1] 0.5908859 2.3770783 0.8066920 2.5431827
## [1] "out of bounds"
## [1] 0.3500896 0.5767367 1.2886603 1.3405514
## [1] 0.3019304 0.2166683 1.3850539 1.1000251
## [1] 0.2922985 0.1446547 1.4043326 1.0519199
## [1] 0.2903721 0.1302519 1.4081884 1.0422988
## [1] 0.2899869 0.1273714 1.4089595 1.0403746
## [1] 0.2899098 0.1267953 1.4091138 1.0399898
## [1] 0.2898944 0.1266801 1.4091446 1.0399128
## [1] 0.2898925 0.1266657 1.4091485 1.0399032

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## [1] 0.2908944 0.1266801 1.4091446 1.0399128
## [1] 0.2888944 0.1266801 1.4091446 1.0399128
## [1] 0.2898944 0.1276801 1.4091446 1.0399128
## [1] 0.2898944 0.1256801 1.4091446 1.0399128
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## [1] 0.2898944 0.1266801 1.4091446 1.0389128
## [1] 0.2898840 0.1266979 1.4091235 1.0399435
## [1] 0.2898892 0.1266890 1.4091341 1.0399282
## [1] 0.2908840 0.1266979 1.4091235 1.0399435
## [1] 0.2888840 0.1266979 1.4091235 1.0399435
## [1] 0.2898840 0.1276979 1.4091235 1.0399435
## [1] 0.2898840 0.1256979 1.4091235 1.0399435
## [1] 0.2898840 0.1266979 1.4101235 1.0399435
## [1] 0.2898840 0.1266979 1.4081235 1.0399435
## [1] 0.2898840 0.1266979 1.4091235 1.0409435
## [1] 0.2898840 0.1266979 1.4091235 1.0389435
## [1] 0.2898337 0.1267037 1.4090476 1.0400364
## [1] 0.2898589 0.1267008 1.4090856 1.0399900
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## [1] 0.2888337 0.1267037 1.4090476 1.0400364
## [1] 0.2898337 0.1277037 1.4090476 1.0400364
## [1] 0.2898337 0.1257037 1.4090476 1.0400364
## [1] 0.2898337 0.1267037 1.4100476 1.0400364
## [1] 0.2898337 0.1267037 1.4080476 1.0400364
## [1] 0.2898337 0.1267037 1.4090476 1.0410364
## [1] 0.2898337 0.1267037 1.4090476 1.0390364
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## [1] 0.2898214 0.1266807 1.4089958 1.0401040
## [1] 0.2908091 0.1266578 1.4089439 1.0401717
## [1] 0.2888091 0.1266578 1.4089439 1.0401717
## [1] 0.2898091 0.1276578 1.4089439 1.0401717
## [1] 0.2898091 0.1256578 1.4089439 1.0401717
## [1] 0.2898091 0.1266578 1.4099439 1.0401717
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## [1] 11.217820 6.190421 1.751821 6.614336
## [1] "out of bounds"
## [1] 2.475411 1.339410 1.477519 2.155004
## [1] "out of bounds"
## [1] 0.7269296 0.3692084 1.4226590 1.2631382
## [1] 0.3772332 0.1751679 1.4116869 1.0847650
## [1] 0.3072939 0.1363599 1.4094925 1.0490903
## [1] 0.2933061 0.1285982 1.4090536 1.0419554
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## [1] 0.2898231 0.1266656 1.4089443 1.0401788
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## [1] 0.2888371 0.1266734 1.4089448 1.0401859
## [1] 0.2898371 0.1276734 1.4089448 1.0401859
## [1] 0.2898371 0.1256734 1.4089448 1.0401859

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## [1] 0.2898371 0.1266734 1.4079448 1.0401859
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## [1] 0.2910143 0.1265146 1.4088405 1.0403881
## [1] 0.2890143 0.1265146 1.4088405 1.0403881
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## [1] "out of bounds"
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## [1] 0.3010958 0.2114645 1.3858727 1.0974097
## [1] 0.2922306 0.1435046 1.4042469 1.0517924
## [1] 0.2904575 0.1299126 1.4079217 1.0426690
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## [1] 0.2900160 0.1265282 1.4088368 1.0403972
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## [1] 0.2900178 0.1265418 1.4088331 1.0394064

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## [1] 0.2889369 0.1265206 1.4086424 1.0406529
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## [1] 0.2899369 0.1255206 1.4086424 1.0406529
## [1] 0.2899369 0.1265206 1.4096424 1.0406529
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## [1] 2.360772 1.269355 1.473043 2.098451
## [1] "out of bounds"
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## [1] 0.3727703 0.1722340 1.4112184 1.0829648
## [1] 0.3065035 0.1356633 1.4091576 1.0491153
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## [1] 0.2899501 0.1265280 1.4086428 1.0406597
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## [1] 0.2899964 0.1255292 1.4086385 1.0406869
## [1] 0.2899964 0.1265292 1.4096385 1.0406869
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## [1] 0.2890754 0.1264678 1.4086119 1.0407493
## [1] 0.2900754 0.1274678 1.4086119 1.0407493
## [1] 0.2900754 0.1254678 1.4086119 1.0407493
## [1] 0.2900754 0.1264678 1.4096119 1.0407493
## [1] 0.2900754 0.1264678 1.4076119 1.0407493
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## [1] 0.2901036 0.1264262 1.4085781 1.0408041
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## [1] "out of bounds"
## [1] 0.5449897 2.1308441 0.8612758 2.3927749
## [1] "out of bounds"
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## [1] 0.3003262 0.2065630 1.3866535 1.0949356
## [1] 0.2921708 0.1424203 1.4041661 1.0516743
## [1] 0.2905397 0.1295918 1.4076686 1.0430221
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## [1] 0.3685747 0.1694934 1.4107825 1.0812644
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## [1] 0.2901900 0.1263397 1.4083270 1.0412029
## [1] 0.2901524 0.1263689 1.4083397 1.0411732

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## [1] 0.2892437 0.1262610 1.4082629 1.0413073
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## [1] 0.2901940 0.1253052 1.4081725 1.0414307

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## [1] 0.2901940 0.1263052 1.4091725 1.0414307
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## [1] 0.2902274 0.1252735 1.4080804 1.0415781
## [1] 0.2902274 0.1262735 1.4090804 1.0415781
## [1] 0.2902274 0.1262735 1.4070804 1.0415781
## [1] 0.2902274 0.1262735 1.4080804 1.0425781
## [1] 0.2902274 0.1262735 1.4080804 1.0405781
## [1] 0.2902990 0.1262178 1.4080565 1.0416347
## [1] 0.2902632 0.1262457 1.4080685 1.0416064
## [1] 0.2912990 0.1262178 1.4080565 1.0416347
## [1] 0.2892990 0.1262178 1.4080565 1.0416347
## [1] 0.2902990 0.1272178 1.4080565 1.0416347
## [1] 0.2902990 0.1252178 1.4080565 1.0416347
## [1] 0.2902990 0.1262178 1.4090565 1.0416347
## [1] 0.2902990 0.1262178 1.4070565 1.0416347
## [1] 0.2902990 0.1262178 1.4080565 1.0426347
## [1] 0.2902990 0.1262178 1.4080565 1.0406347
## [1] 0.2903499 0.1261434 1.4079957 1.0417340

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## [1] 0.2903245 0.1261806 1.4080261 1.0416844
## [1] 0.2913499 0.1261434 1.4079957 1.0417340
## [1] 0.2893499 0.1261434 1.4079957 1.0417340
## [1] 0.2903499 0.1271434 1.4079957 1.0417340
## [1] 0.2903499 0.1251434 1.4079957 1.0417340
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## [1] 0.2903499 0.1261434 1.4079957 1.0427340
## [1] 0.2903499 0.1261434 1.4079957 1.0407340
## [1] 1.366562 9.055358 -1.077950 7.121921
## [1] "out of bounds"
## [1] 0.5055924 1.9119863 0.9108065 2.2577715
## [1] "out of bounds"
## [1] 0.3333984 0.4833120 1.3085578 1.2849415
## [1] 0.2989596 0.1975772 1.3881081 1.0903755
## [1] 0.2920719 0.1404302 1.4040182 1.0514623
## [1] 0.2906943 0.1290008 1.4072002 1.0436797
## [1] 0.2904188 0.1267149 1.4078366 1.0421231
## [1] 0.2903637 0.1262577 1.4079638 1.0418118
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## [1] 0.2903527 0.1261663 1.4069893 1.0417496
## [1] 0.2903527 0.1261663 1.4079893 1.0427496
## [1] 0.2903527 0.1261663 1.4079893 1.0407496
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## [1] 0.2913025 0.1261852 1.4079096 1.0418516
## [1] 0.2893025 0.1261852 1.4079096 1.0418516
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## [1] 0.2903025 0.1251852 1.4079096 1.0418516
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## [1] 0.2903025 0.1261852 1.4079096 1.0428516
## [1] 0.2903025 0.1261852 1.4079096 1.0408516
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## [1] 0.2902929 0.1261666 1.4078675 1.0419071
## [1] 0.2912833 0.1261481 1.4078255 1.0419626
## [1] 0.2892833 0.1261481 1.4078255 1.0419626
## [1] 0.2902833 0.1271481 1.4078255 1.0419626

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## [1] 0.2902833 0.1251481 1.4078255 1.0419626
## [1] 0.2902833 0.1261481 1.4088255 1.0419626
## [1] 0.2902833 0.1261481 1.4068255 1.0419626
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## [1] 0.2902833 0.1261481 1.4078255 1.0409626
## [1] 9.120118 4.926066 1.679661 5.564308
## [1] "out of bounds"
## [1] 2.056250 1.086132 1.462193 1.946432
## [1] 0.6434766 0.3181448 1.4186989 1.2228564
## [1] 0.3609219 0.1645474 1.4100002 1.0781414
## [1] 0.3044110 0.1338279 1.4082604 1.0491984
## [1] 0.2931088 0.1276841 1.4079125 1.0434098
## [1] 0.2908484 0.1264553 1.4078429 1.0422521
## [1] 0.2903963 0.1262095 1.4078290 1.0420205
## [1] 0.2903059 0.1261604 1.4078262 1.0419742
## [1] 0.2902946 0.1261542 1.4078258 1.0419684
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## [1] 0.2893059 0.1261604 1.4078262 1.0419742
## [1] 0.2903059 0.1271604 1.4078262 1.0419742
## [1] 0.2903059 0.1251604 1.4078262 1.0419742
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## [1] 0.2903059 0.1261604 1.4078262 1.0409742
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## [1] 0.2903201 0.1261577 1.4078242 1.0419831
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## [1] 0.2903344 0.1271550 1.4078222 1.0419919
## [1] 0.2903344 0.1251550 1.4078222 1.0419919
## [1] 0.2903344 0.1261550 1.4088222 1.0419919
## [1] 0.2903344 0.1261550 1.4068222 1.0419919
## [1] 0.2903344 0.1261550 1.4078222 1.0429919
## [1] 0.2903344 0.1261550 1.4078222 1.0409919
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## [1] 0.2903685 0.1261285 1.4078108 1.0420189
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## [1] 0.2894026 0.1261019 1.4077995 1.0420458
## [1] 0.2904026 0.1271019 1.4077995 1.0420458
## [1] 0.2904026 0.1251019 1.4077995 1.0420458
## [1] 0.2904026 0.1261019 1.4087995 1.0420458
## [1] 0.2904026 0.1261019 1.4067995 1.0420458
## [1] 0.2904026 0.1261019 1.4077995 1.0430458
## [1] 0.2904026 0.1261019 1.4077995 1.0410458
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## [1] 0.2904268 0.1260668 1.4077706 1.0420930
## [1] 0.2914510 0.1260316 1.4077418 1.0421402
## [1] 0.2894510 0.1260316 1.4077418 1.0421402
## [1] 0.2904510 0.1270316 1.4077418 1.0421402
## [1] 0.2904510 0.1250316 1.4077418 1.0421402
## [1] 0.2904510 0.1260316 1.4087418 1.0421402
## [1] 0.2904510 0.1260316 1.4067418 1.0421402
## [1] 0.2904510 0.1260316 1.4077418 1.0431402
## [1] 0.2904510 0.1260316 1.4077418 1.0411402
```



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## [1] 1.278096 8.553468 -0.961878 6.808708
## [1] "out of bounds"
## [1] 0.4879800 1.8115188 0.9338178 2.1954539
## [1] "out of bounds"
## [1] 0.3299568 0.4631290 1.3129570 1.2728030
## [1] 0.2983521 0.1934511 1.3887849 1.0882728
## [1] 0.2920312 0.1395155 1.4039504 1.0513668
## [1] 0.2907670 0.1287284 1.4069835 1.0439855
## [1] 0.2905142 0.1265710 1.4075902 1.0425093
## [1] 0.2904636 0.1261395 1.4077115 1.0422141
## [1] 0.2904535 0.1260532 1.4077357 1.0421550
## [1] 0.2904522 0.1260424 1.4077388 1.0421476
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## [1] 0.2894535 0.1260532 1.4077357 1.0421550
## [1] 0.2904535 0.1270532 1.4077357 1.0421550
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## [1] 0.2904535 0.1260532 1.4077357 1.0411550
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## [1] 0.2904493 0.1260601 1.4077275 1.0421671
## [1] 0.2914451 0.1260670 1.4077192 1.0421792
## [1] 0.2894451 0.1260670 1.4077192 1.0421792
## [1] 0.2904451 0.1270670 1.4077192 1.0421792
## [1] 0.2904451 0.1250670 1.4077192 1.0421792
## [1] 0.2904451 0.1260670 1.4087192 1.0421792
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## [1] 0.2904055 0.1260711 1.4076598 1.0412522
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## [1] 0.2903965 0.1260534 1.4076199 1.0423051
## [1] 0.2913875 0.1260358 1.4075799 1.0423580
## [1] 0.2893875 0.1260358 1.4075799 1.0423580
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## [1] 0.2903875 0.1260358 1.4075799 1.0413580
## [1] 8.671593 4.661910 1.666393 5.336268
## [1] "out of bounds"
## [1] 1.966629 1.033211 1.459343 1.901140
## [1] 0.6256357 0.3074708 1.4179325 1.2141144

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## [1] 0.3574371 0.1623228 1.4096505 1.0767093
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## [1] 0.2930694 0.1274873 1.4076628 1.0437320
## [1] 0.2909239 0.1263261 1.4075965 1.0426328
## [1] 0.2904947 0.1260939 1.4075833 1.0424130
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## [1] 0.2903982 0.1260416 1.4075803 1.0423635
## [1] 0.2914089 0.1260475 1.4075806 1.0423690
## [1] 0.2894089 0.1260475 1.4075806 1.0423690
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## [1] 0.2904089 0.1260475 1.4085806 1.0423690
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## [1] 0.2904089 0.1260475 1.4075806 1.0433690
## [1] 0.2904089 0.1260475 1.4075806 1.0413690
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## [1] 0.2905240 0.1259585 1.4075280 1.0424821
## [1] 0.2915470 0.1259252 1.4075007 1.0425269
## [1] 0.2895470 0.1259252 1.4075007 1.0425269
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## [1] 0.2905470 0.1259252 1.4075007 1.0415269
## [1] 1.1957338 8.0782070 -0.8513638 6.5113968
## [1] "out of bounds"
## [1] 0.4715843 1.7163816 0.9557278 2.1363009
## [1] "out of bounds"
## [1] 0.3267544 0.4440165 1.3171461 1.2612817
## [1] 0.2977885 0.1895435 1.3894297 1.0862779
## [1] 0.2919953 0.1386489 1.4038865 1.0512771
## [1] 0.2908366 0.1284700 1.4067778 1.0442770
## [1] 0.2906049 0.1264342 1.4073561 1.0428769

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## [1] 0.2905585 0.1260270 1.4074717 1.0425969
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## [1] 0.2895493 0.1259456 1.4074949 1.0425409
## [1] 0.2905493 0.1269456 1.4074949 1.0425409
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## [1] 0.2894865 0.1259291 1.4073467 1.0427344
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## [1] 0.2904967 0.1259346 1.4073470 1.0427396
## [1] 0.2915069 0.1259401 1.4073473 1.0427448
## [1] 0.2895069 0.1259401 1.4073473 1.0427448

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## [1] 0.2905069 0.1269401 1.4073473 1.0427448
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## [1] 0.2895328 0.1259352 1.4073437 1.0427608
## [1] 0.2905328 0.1269352 1.4073437 1.0427608
## [1] 0.2905328 0.1249352 1.4073437 1.0427608
## [1] 0.2905328 0.1259352 1.4083437 1.0427608
## [1] 0.2905328 0.1259352 1.4063437 1.0427608
## [1] 0.2905328 0.1259352 1.4073437 1.0437608
## [1] 0.2905328 0.1259352 1.4073437 1.0417608
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## [1] 0.2905637 0.1259111 1.4073335 1.0427853
## [1] 0.2915946 0.1258869 1.4073233 1.0428097
## [1] 0.2895946 0.1258869 1.4073233 1.0428097
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## [1] 0.2905946 0.1248869 1.4073233 1.0428097
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## [1] 0.2906382 0.1268241 1.4072716 1.0428950
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## [1] 0.2906382 0.1258241 1.4082716 1.0428950
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## [1] 0.2906382 0.1258241 1.4072716 1.0438950
## [1] 0.2906382 0.1258241 1.4072716 1.0418950
## [1] 1.1188507 7.6272795 -0.7461726 6.2289536
## [1] "out of bounds"
## [1] 0.4562807 1.6261152 0.9765827 2.0801067
## [1] "out of bounds"
## [1] 0.3237667 0.4258823 1.3211338 1.2503374
## [1] 0.2972639 0.1858357 1.3900440 1.0843835
## [1] 0.2919634 0.1378264 1.4038260 1.0511927
## [1] 0.2909032 0.1282246 1.4065825 1.0445546
## [1] 0.2906912 0.1263042 1.4071337 1.0432269
## [1] 0.2906488 0.1259201 1.4072440 1.0429614
## [1] 0.2906403 0.1258433 1.4072660 1.0429083
## [1] 0.2906393 0.1258337 1.4072688 1.0429017
## [1] 0.2916403 0.1258433 1.4072660 1.0429083
## [1] 0.2896403 0.1258433 1.4072660 1.0429083
## [1] 0.2906403 0.1268433 1.4072660 1.0429083
## [1] 0.2906403 0.1248433 1.4072660 1.0429083
## [1] 0.2906403 0.1258433 1.4082660 1.0429083
## [1] 0.2906403 0.1258433 1.4062660 1.0429083

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## [1] 0.2906403 0.1258433 1.4072660 1.0439083
## [1] 0.2906403 0.1258433 1.4072660 1.0419083
## [1] 0.2906327 0.1258558 1.4072510 1.0429302
## [1] 0.2906365 0.1258495 1.4072585 1.0429193
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## [1] 0.2896327 0.1258558 1.4072510 1.0429302
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## [1] 0.2906327 0.1248558 1.4072510 1.0429302
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## [1] 0.2906327 0.1258558 1.4072510 1.0419302
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## [1] 0.2906147 0.1258575 1.4072241 1.0429634
## [1] 0.2915967 0.1258593 1.4071972 1.0429967
## [1] 0.2895967 0.1258593 1.4071972 1.0429967
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## [1] 0.2905967 0.1258593 1.4081972 1.0429967
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## [1] 0.2905967 0.1258593 1.4071972 1.0419967
## [1] 0.2905806 0.1258275 1.4071250 1.0430926
## [1] 0.2905887 0.1258434 1.4071611 1.0430446
## [1] 0.2915806 0.1258275 1.4071250 1.0430926
## [1] 0.2895806 0.1258275 1.4071250 1.0430926
## [1] 0.2905806 0.1268275 1.4071250 1.0430926
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## [1] 0.2905806 0.1258275 1.4071250 1.0420926
## [1] 7.854583 4.188745 1.644980 4.916848
## [1] "out of bounds"
## [1] 1.8033810 0.9384111 1.4546960 1.8178437
## [1] 0.5931407 0.2883443 1.4166392 1.1980428
## [1] 0.3510927 0.1583309 1.4090279 1.0740827
## [1] 0.3026830 0.1323282 1.4075056 1.0492906
## [1] 0.2930011 0.1271277 1.4072011 1.0443322
## [1] 0.2910647 0.1260876 1.4071403 1.0433405
## [1] 0.2906775 0.1258796 1.4071281 1.0431422
## [1] 0.2906000 0.1258379 1.4071256 1.0431025
## [1] 0.2905903 0.1258327 1.4071253 1.0430976
## [1] 0.2916000 0.1258379 1.4071256 1.0431025
## [1] 0.2896000 0.1258379 1.4071256 1.0431025
## [1] 0.2906000 0.1268379 1.4071256 1.0431025
## [1] 0.2906000 0.1248379 1.4071256 1.0431025
## [1] 0.2906000 0.1258379 1.4081256 1.0431025
## [1] 0.2906000 0.1258379 1.4061256 1.0431025
## [1] 0.2906000 0.1258379 1.4071256 1.0441025
## [1] 0.2906000 0.1258379 1.4071256 1.0421025
## [1] 0.2906247 0.1258333 1.4071223 1.0431178
## [1] 0.2906123 0.1258356 1.4071240 1.0431102
## [1] 0.2916247 0.1258333 1.4071223 1.0431178

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## [1] 0.2906247 0.1268333 1.4071223 1.0431178
## [1] 0.2906247 0.1248333 1.4071223 1.0431178
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## [1] 0.2906541 0.1258103 1.4071126 1.0431411
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## [1] 0.2906836 0.1267873 1.4071029 1.0431643
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## [1] 0.2906836 0.1257873 1.4081029 1.0431643
## [1] 0.2906836 0.1257873 1.4061029 1.0431643
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## [1] 0.2907043 0.1257576 1.4070784 1.0432048
## [1] 0.2917250 0.1257279 1.4070539 1.0432454
## [1] 0.2897250 0.1257279 1.4070539 1.0432454
## [1] 0.2907250 0.1267279 1.4070539 1.0432454
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## [1] 0.2907250 0.1257279 1.4060539 1.0432454
## [1] 0.2907250 0.1257279 1.4070539 1.0442454
## [1] 0.2907250 0.1257279 1.4070539 1.0422454
## [1] 1.0468341 7.1984542 -0.6460881 5.9603865
## [1] "out of bounds"
## [1] 0.4419468 1.5402732 0.9964255 2.0266736
## [1] "out of bounds"
## [1] 0.3209693 0.4086370 1.3249282 1.2399310
## [1] 0.2967738 0.1823097 1.3906288 1.0825825
## [1] 0.2919347 0.1370443 1.4037689 1.0511128
## [1] 0.2909669 0.1279912 1.4063969 1.0448188
## [1] 0.2907734 0.1261806 1.4069225 1.0435601
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## [1] 0.2907259 0.1257370 1.4070513 1.0432516
## [1] 0.2917269 0.1257460 1.4070486 1.0432579
## [1] 0.2897269 0.1257460 1.4070486 1.0432579
## [1] 0.2907269 0.1267460 1.4070486 1.0432579
## [1] 0.2907269 0.1247460 1.4070486 1.0432579
## [1] 0.2907269 0.1257460 1.4080486 1.0432579
## [1] 0.2907269 0.1257460 1.4060486 1.0432579
## [1] 0.2907269 0.1257460 1.4070486 1.0442579
## [1] 0.2907269 0.1257460 1.4070486 1.0422579
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## [1] 0.2907233 0.1257519 1.4070415 1.0432684
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## [1] 0.2897196 0.1257578 1.4070343 1.0432788
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## [1] 0.2907196 0.1257578 1.4080343 1.0432788

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## [1] 0.2907196 0.1257578 1.4060343 1.0432788
## [1] 0.2907196 0.1257578 1.4070343 1.0442788
## [1] 0.2907196 0.1257578 1.4070343 1.0422788
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## [1] 0.2916853 0.1257612 1.4069831 1.0433422
## [1] 0.2896853 0.1257612 1.4069831 1.0433422
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## [1] 0.2906853 0.1257612 1.4069831 1.0423422
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## [1] 0.2906777 0.1257461 1.4069487 1.0433879
## [1] 0.2916701 0.1257310 1.4069144 1.0434337
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## [1] 7.483685 3.978239 1.636798 4.724326
## [1] "out of bounds"
## [1] 1.7292731 0.8962325 1.4528912 1.7796121
## [1] 0.5783907 0.2798313 1.4161098 1.1906694
## [1] 0.3482142 0.1565510 1.4087535 1.0728808
## [1] 0.3021789 0.1318950 1.4072822 1.0493231
## [1] 0.2929719 0.1269638 1.4069880 1.0446116
## [1] 0.2911305 0.1259775 1.4069291 1.0436692
## [1] 0.2907622 0.1257803 1.4069174 1.0434808
## [1] 0.2906885 0.1257408 1.4069150 1.0434431
## [1] 0.2906793 0.1257359 1.4069147 1.0434384
## [1] 0.2916885 0.1257408 1.4069150 1.0434431
## [1] 0.2896885 0.1257408 1.4069150 1.0434431
## [1] 0.2906885 0.1267408 1.4069150 1.0434431
## [1] 0.2906885 0.1247408 1.4069150 1.0434431
## [1] 0.2906885 0.1257408 1.4079150 1.0434431
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## [1] 0.2906885 0.1257408 1.4069150 1.0444431
## [1] 0.2906885 0.1257408 1.4069150 1.0424431
## [1] 0.2907120 0.1257363 1.4069118 1.0434576
## [1] 0.2907003 0.1257386 1.4069134 1.0434504
## [1] 0.2917120 0.1257363 1.4069118 1.0434576
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## [1] 0.2907120 0.1267363 1.4069118 1.0434576
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## [1] 0.2907120 0.1257363 1.4079118 1.0434576
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## [1] 0.2907120 0.1257363 1.4069118 1.0424576
## [1] 0.2907681 0.1256925 1.4068935 1.0435018
## [1] 0.2907401 0.1257144 1.4069027 1.0434797

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## [1] 0.2917681 0.1256925 1.4068935 1.0435018
## [1] 0.2897681 0.1256925 1.4068935 1.0435018
## [1] 0.2907681 0.1266925 1.4068935 1.0435018
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## [1] 0.2907681 0.1256925 1.4068935 1.0425018
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## [1] 0.2908074 0.1256364 1.4068471 1.0425788
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## [1] 0.428461 1.458418 1.015295 1.975811
## [1] 0.3183381 0.3921928 1.3285366 1.2300252
## [1] 0.2963136 0.1789477 1.3911850 1.0808681
## [1] 0.2919086 0.1362987 1.4037147 1.0510367
## [1] 0.2910277 0.1277689 1.4062206 1.0450704
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## [1] 0.2908092 0.1246535 1.4068421 1.0435907
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## [1] 0.2908022 0.1266647 1.4068285 1.0436107
## [1] 0.2908022 0.1246647 1.4068285 1.0436107
## [1] 0.2908022 0.1256647 1.4078285 1.0436107
## [1] 0.2908022 0.1256647 1.4058285 1.0436107
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## [1] 0.2897695 0.1256679 1.4067796 1.0436711
## [1] 0.2907695 0.1266679 1.4067796 1.0436711
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## [1] 0.2907695 0.1256679 1.4077796 1.0436711

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## [1] 0.2907695 0.1256679 1.4057796 1.0436711
## [1] 0.2907695 0.1256679 1.4067796 1.0446711
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## [1] 0.5645867 0.2719865 1.4156589 1.1837110
## [1] 0.3455214 0.1549086 1.4085032 1.0717489
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## [1] 0.2907727 0.1266485 1.4067149 1.0437673
## [1] 0.2907727 0.1246485 1.4067149 1.0437673
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## [1] 0.2897951 0.1256442 1.4067119 1.0437811
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## [1] 0.2907951 0.1246442 1.4067119 1.0437811
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## [1] 0.2908485 0.1246024 1.4066945 1.0438231
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## [1] 0.2908485 0.1256024 1.4066945 1.0428231
## [1] 0.2908858 0.1255494 1.4066506 1.0438962
## [1] 0.2908671 0.1255759 1.4066726 1.0438596

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## [1] 0.2918858 0.1255494 1.4066506 1.0438962
## [1] 0.2898858 0.1255494 1.4066506 1.0438962
## [1] 0.2908858 0.1265494 1.4066506 1.0438962
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## [1] 0.2908858 0.1255494 1.4066506 1.0428962
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## [1] 0.4157007 1.3801205 1.0332255 1.9273340
## [1] 0.3158488 0.3764637 1.3319656 1.2205837
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## [1] 0.2898874 0.1255655 1.4066458 1.0439075
## [1] 0.2908874 0.1265655 1.4066458 1.0439075
## [1] 0.2908874 0.1245655 1.4066458 1.0439075
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## [1] 0.2908874 0.1255655 1.4056458 1.0439075
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## [1] 0.2908807 0.1265762 1.4066328 1.0439265
## [1] 0.2908807 0.1245762 1.4066328 1.0439265
## [1] 0.2908807 0.1255762 1.4076328 1.0439265
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## [1] 0.2898496 0.1255792 1.4065863 1.0439841
## [1] 0.2908496 0.1265792 1.4065863 1.0439841
## [1] 0.2908496 0.1245792 1.4065863 1.0439841
## [1] 0.2908496 0.1255792 1.4075863 1.0439841
## [1] 0.2908496 0.1255792 1.4055863 1.0439841
## [1] 0.2908496 0.1255792 1.4065863 1.0449841
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## [1] 0.2898360 0.1255517 1.4065241 1.0440674
## [1] 0.2908360 0.1265517 1.4065241 1.0440674
## [1] 0.2908360 0.1245517 1.4065241 1.0440674
## [1] 0.2908360 0.1255517 1.4075241 1.0440674

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## [1] 0.2908360 0.1255517 1.4055241 1.0440674
## [1] 0.2908360 0.1255517 1.4065241 1.0450674
## [1] 0.2908360 0.1255517 1.4065241 1.0430674
## [1] 6.812375 3.606533 1.625636 4.371131
## [1] "out of bounds"
## [1] 1.5951438 0.8217479 1.4503465 1.7094802
## [1] 0.5516975 0.2647910 1.4152886 1.1771499
## [1] 0.3430083 0.1533996 1.4082770 1.0706839
## [1] 0.3012704 0.1311213 1.4068747 1.0493907
## [1] 0.2929228 0.1266656 1.4065942 1.0451320
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## [1] 0.2908740 0.1255565 1.4065218 1.0430890
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## [1] 0.2899249 0.1255167 1.4065054 1.0441289
## [1] 0.2909249 0.1265167 1.4065054 1.0441289
## [1] 0.2909249 0.1245167 1.4065054 1.0441289
## [1] 0.2909249 0.1255167 1.4075054 1.0441289
## [1] 0.2909249 0.1255167 1.4055054 1.0441289
## [1] 0.2909249 0.1255167 1.4065054 1.0451289
## [1] 0.2909249 0.1255167 1.4065054 1.0431289
## [1] 0.2909603 0.1254667 1.4064639 1.0441982
## [1] 0.2909426 0.1254917 1.4064847 1.0441636
## [1] 0.2919603 0.1254667 1.4064639 1.0441982
## [1] 0.2899603 0.1254667 1.4064639 1.0441982
## [1] 0.2909603 0.1264667 1.4064639 1.0441982
## [1] 0.2909603 0.1244667 1.4064639 1.0441982
## [1] 0.2909603 0.1254667 1.4074639 1.0441982
## [1] 0.2909603 0.1254667 1.4054639 1.0441982
## [1] 0.2909603 0.1254667 1.4064639 1.0451982
## [1] 0.2909603 0.1254667 1.4064639 1.0431982
## [1] 0.8538633 6.0229168 -0.3746166 5.2285308
## [1] "out of bounds"

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## [1] 0.4035409 1.3049568 1.0502478 1.8810647
## [1] 0.3134764 0.3613647 1.3352207 1.2115715
## [1] 0.2954635 0.1726463 1.3922152 1.0776729
## [1] 0.2918609 0.1349027 1.4036142 1.0508931
## [1] 0.2911404 0.1273539 1.4058939 1.0455372
## [1] 0.2909963 0.1258442 1.4063499 1.0444660
## [1] 0.2909675 0.1255422 1.4064411 1.0442518
## [1] 0.2909617 0.1254818 1.4064593 1.0442089
## [1] 0.2909610 0.1254743 1.4064616 1.0442036
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## [1] 0.2909617 0.1244818 1.4064593 1.0442089
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## [1] 0.2909585 0.1254869 1.4064531 1.0442180
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## [1] 0.2909405 0.1254934 1.4064248 1.0442546
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## [1] 0.2899257 0.1254948 1.4064026 1.0442821
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## [1] 0.2909257 0.1244948 1.4064026 1.0442821
## [1] 0.2909257 0.1254948 1.4074026 1.0442821
## [1] 0.2909257 0.1254948 1.4054026 1.0442821
## [1] 0.2909257 0.1254948 1.4064026 1.0452821
## [1] 0.2909257 0.1254948 1.4064026 1.0432821
## [1] 0.2909128 0.1254686 1.4063433 1.0443615
## [1] 0.2909192 0.1254817 1.4063729 1.0443218
## [1] 0.2919128 0.1254686 1.4063433 1.0443615
## [1] 0.2899128 0.1254686 1.4063433 1.0443615
## [1] 0.2909128 0.1264686 1.4063433 1.0443615
## [1] 0.2909128 0.1244686 1.4063433 1.0443615
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## [1] 0.2909128 0.1254686 1.4053433 1.0443615
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## [1] 0.2909128 0.1254686 1.4063433 1.0433615
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## [1] 0.5396975 0.2582280 1.4150018 1.1709690
## [1] 0.3406697 0.1520205 1.4080750 1.0696830
## [1] 0.3008641 0.1307790 1.4066896 1.0494258
## [1] 0.2929030 0.1265307 1.4064126 1.0453744

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## [1] 0.2913108 0.1256810 1.4063571 1.0445641
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## [1] 0.2899287 0.1254771 1.4063438 1.0443696
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## [1] 0.2909389 0.1254751 1.4063425 1.0443759
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## [1] 0.2899490 0.1254731 1.4063412 1.0443821
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## [1] 0.2910311 0.1253881 1.4062865 1.0444857
## [1] 0.2910143 0.1254116 1.4063061 1.0444528
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## [1] 0.2900311 0.1253881 1.4062865 1.0444857
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## [1] 0.2910311 0.1243881 1.4062865 1.0444857
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## [1] 0.2910311 0.1253881 1.4062865 1.0434857
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## [1] "out of bounds"
## [1] 0.3918538 1.2325188 1.0663876 1.8368321
## [1] 0.3111956 0.3468142 1.3383067 1.2029550
## [1] 0.2950640 0.1696733 1.3926905 1.0761795
## [1] 0.2918377 0.1342451 1.4035673 1.0508244
## [1] 0.2911924 0.1271595 1.4057426 1.0457534
## [1] 0.2910633 0.1257424 1.4061777 1.0447392
## [1] 0.2910375 0.1254590 1.4062647 1.0445364
## [1] 0.2910324 0.1254023 1.4062821 1.0444958
## [1] 0.2910317 0.1253952 1.4062843 1.0444907
## [1] 0.2920324 0.1254023 1.4062821 1.0444958

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## [1] 0.2900324 0.1254023 1.4062821 1.0444958
## [1] 0.2910324 0.1264023 1.4062821 1.0444958
## [1] 0.2910324 0.1244023 1.4062821 1.0444958
## [1] 0.2910324 0.1254023 1.4072821 1.0444958
## [1] 0.2910324 0.1254023 1.4052821 1.0444958
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## [1] 0.2910293 0.1254071 1.4062762 1.0445045
## [1] 0.2920263 0.1254119 1.4062703 1.0445131
## [1] 0.2900263 0.1254119 1.4062703 1.0445131
## [1] 0.2910263 0.1264119 1.4062703 1.0445131
## [1] 0.2910263 0.1244119 1.4062703 1.0445131
## [1] 0.2910263 0.1254119 1.4072703 1.0445131
## [1] 0.2910263 0.1254119 1.4052703 1.0445131
## [1] 0.2910263 0.1254119 1.4062703 1.0455131
## [1] 0.2910263 0.1254119 1.4062703 1.0435131
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## [1] 0.2910122 0.1254132 1.4062492 1.0445394
## [1] 0.2919981 0.1254145 1.4062280 1.0445657
## [1] 0.2899981 0.1254145 1.4062280 1.0445657
## [1] 0.2909981 0.1264145 1.4062280 1.0445657
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## [1] 0.2909981 0.1254145 1.4072280 1.0445657
## [1] 0.2909981 0.1254145 1.4052280 1.0445657
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## [1] 0.2909858 0.1243895 1.4061714 1.0446416
## [1] 0.2909858 0.1253895 1.4071714 1.0446416
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## [1] 0.2909934 0.1253936 1.4061717 1.0446455
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## [1] 0.2910010 0.1263976 1.4061720 1.0446493
## [1] 0.2910010 0.1243976 1.4061720 1.0446493
## [1] 0.2910010 0.1253976 1.4071720 1.0446493
## [1] 0.2910010 0.1253976 1.4051720 1.0446493

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## [1] 0.2910010 0.1253976 1.4061720 1.0456493
## [1] 0.2910010 0.1253976 1.4061720 1.0436493
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## [1] 0.2900204 0.1253938 1.4061695 1.0446612
## [1] 0.2910204 0.1263938 1.4061695 1.0446612
## [1] 0.2910204 0.1243938 1.4061695 1.0446612
## [1] 0.2910204 0.1253938 1.4071695 1.0446612
## [1] 0.2910204 0.1253938 1.4051695 1.0446612
## [1] 0.2910204 0.1253938 1.4061695 1.0456612
## [1] 0.2910204 0.1253938 1.4061695 1.0436612
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## [1] 0.2900666 0.1253576 1.4061549 1.0446971
## [1] 0.2910666 0.1263576 1.4061549 1.0446971
## [1] 0.2910666 0.1243576 1.4061549 1.0446971
## [1] 0.2910666 0.1253576 1.4071549 1.0446971
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## [1] 0.2900984 0.1253133 1.4061179 1.0447593
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## [1] "out of bounds"
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## [1] 0.2900995 0.1253266 1.4061137 1.0447689
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## [1] 0.2910995 0.1243266 1.4061137 1.0447689
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## [1] 0.2910966 0.1253312 1.4061081 1.0447771
## [1] 0.2920938 0.1253358 1.4061025 1.0447854

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## [1] 0.2900938 0.1253358 1.4061025 1.0447854
## [1] 0.2910938 0.1263358 1.4061025 1.0447854
## [1] 0.2910938 0.1243358 1.4061025 1.0447854
## [1] 0.2910938 0.1253358 1.4071025 1.0447854
## [1] 0.2910938 0.1253358 1.4051025 1.0447854
## [1] 0.2910938 0.1253358 1.4061025 1.0457854
## [1] 0.2910938 0.1253358 1.4061025 1.0437854
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## [1] 0.2910669 0.1253382 1.4060621 1.0438356
## [1] 0.2910551 0.1253143 1.4060080 1.0449083
## [1] 0.2910610 0.1253262 1.4060350 1.0448719
## [1] 0.2920551 0.1253143 1.4060080 1.0449083
## [1] 0.2900551 0.1253143 1.4060080 1.0449083
## [1] 0.2910551 0.1263143 1.4060080 1.0449083
## [1] 0.2910551 0.1243143 1.4060080 1.0449083
## [1] 0.2910551 0.1253143 1.4070080 1.0449083
## [1] 0.2910551 0.1253143 1.4050080 1.0449083
## [1] 0.2910551 0.1253143 1.4060080 1.0459083
## [1] 0.2910551 0.1253143 1.4060080 1.0439083
## [1] 5.971513 3.165463 1.623128 3.914186
## [1] "out of bounds"
## [1] 1.427147 0.733344 1.449432 1.618764
## [1] 0.5182734 0.2469202 1.4146928 1.1596794
## [1] 0.3364988 0.1496354 1.4077450 1.0678625
## [1] 0.3001439 0.1301785 1.4063554 1.0494991
## [1] 0.2928729 0.1262871 1.4060775 1.0458264
## [1] 0.2914187 0.1255088 1.4060219 1.0450919
## [1] 0.2911279 0.1253532 1.4060108 1.0449450
## [1] 0.2910697 0.1253220 1.4060086 1.0449156
## [1] 0.2910624 0.1253182 1.4060083 1.0449119
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## [1] 0.2900697 0.1253220 1.4060086 1.0449156
## [1] 0.2910697 0.1263220 1.4060086 1.0449156
## [1] 0.2910697 0.1243220 1.4060086 1.0449156
## [1] 0.2910697 0.1253220 1.4070086 1.0449156
## [1] 0.2910697 0.1253220 1.4050086 1.0449156
## [1] 0.2910697 0.1253220 1.4060086 1.0459156
## [1] 0.2910697 0.1253220 1.4060086 1.0439156
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## [1] 0.2910790 0.1253202 1.4060074 1.0449212
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## [1] 0.2900882 0.1253184 1.4060062 1.0449269
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## [1] 0.2910882 0.1253184 1.4050062 1.0449269

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## [1] 0.2910882 0.1253184 1.4060062 1.0459269
## [1] 0.2910882 0.1253184 1.4060062 1.0439269
## [1] 0.2911323 0.1252839 1.4059925 1.0449609
## [1] 0.2911102 0.1253012 1.4059994 1.0449439
## [1] 0.2921323 0.1252839 1.4059925 1.0449609
## [1] 0.2901323 0.1252839 1.4059925 1.0449609
## [1] 0.2911323 0.1262839 1.4059925 1.0449609
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## [1] 0.2911323 0.1252839 1.4069925 1.0449609
## [1] 0.2911323 0.1252839 1.4049925 1.0449609
## [1] 0.2911323 0.1252839 1.4059925 1.0459609
## [1] 0.2911323 0.1252839 1.4059925 1.0439609
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## [1] 0.2911473 0.1252631 1.4059751 1.0449903
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## [1] 0.2901624 0.1252422 1.4059576 1.0450197
## [1] 0.2911624 0.1262422 1.4059576 1.0450197
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## [1] 0.2911624 0.1252422 1.4059576 1.0440197
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## [1] 0.3693901 1.0943839 1.0961040 1.7538606
## [1] 0.3068079 0.3190706 1.3439869 1.1867879
## [1] 0.2942915 0.1640079 1.3935635 1.0733733
## [1] 0.2917882 0.1329954 1.4034788 1.0506904
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## [1] 0.2911874 0.1255524 1.4058584 1.0452465
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## [1] 0.2911629 0.1252484 1.4059556 1.0450242
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## [1] 0.2901634 0.1252546 1.4059536 1.0450287
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## [1] 0.2911634 0.1242546 1.4059536 1.0450287
## [1] 0.2911634 0.1252546 1.4069536 1.0450287
## [1] 0.2911634 0.1252546 1.4049536 1.0450287
## [1] 0.2911634 0.1252546 1.4059536 1.0460287
## [1] 0.2911634 0.1252546 1.4059536 1.0440287
## [1] 0.2911579 0.1252633 1.4059429 1.0450445
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## [1] 0.2901579 0.1252633 1.4059429 1.0450445
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## [1] 0.2911579 0.1242633 1.4059429 1.0450445
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## [1] 0.2911579 0.1252633 1.4059429 1.0460445
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## [1] 0.2911451 0.1252645 1.4059236 1.0450685
## [1] 0.2921323 0.1252657 1.4059044 1.0450925

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## [1] 0.2901323 0.1252657 1.4059044 1.0450925
## [1] 0.2911323 0.1262657 1.4059044 1.0450925
## [1] 0.2911323 0.1242657 1.4059044 1.0450925
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## [1] 0.2911323 0.1252657 1.4059044 1.0460925
## [1] 0.2911323 0.1252657 1.4059044 1.0440925
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## [1] 0.2911267 0.1252542 1.4058785 1.0451273
## [1] 0.2921211 0.1252427 1.4058526 1.0451621
## [1] 0.2901211 0.1252427 1.4058526 1.0451621
## [1] 0.2911211 0.1262427 1.4058526 1.0451621
## [1] 0.2911211 0.1242427 1.4058526 1.0451621
## [1] 0.2911211 0.1252427 1.4068526 1.0451621
## [1] 0.2911211 0.1252427 1.4048526 1.0451621
## [1] 0.2911211 0.1252427 1.4058526 1.0461621
## [1] 0.2911211 0.1252427 1.4058526 1.0441621
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## [1] 0.5087930 0.2421075 1.4146735 1.1545309
## [1] 0.3346555 0.1486156 1.4076168 1.0670359
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## [1] 0.2911350 0.1252501 1.4058532 1.0451691
## [1] 0.2911281 0.1252464 1.4058529 1.0451656
## [1] 0.2921350 0.1252501 1.4058532 1.0451691
## [1] 0.2901350 0.1252501 1.4058532 1.0451691
## [1] 0.2911350 0.1262501 1.4058532 1.0451691
## [1] 0.2911350 0.1242501 1.4058532 1.0451691
## [1] 0.2911350 0.1252501 1.4068532 1.0451691
## [1] 0.2911350 0.1252501 1.4048532 1.0451691
## [1] 0.2911350 0.1252501 1.4058532 1.0461691
## [1] 0.2911350 0.1252501 1.4058532 1.0441691
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## [1] 0.2911439 0.1252484 1.4058521 1.0451745
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## [1] 0.2901527 0.1252467 1.4058510 1.0451798
## [1] 0.2911527 0.1262467 1.4058510 1.0451798
## [1] 0.2911527 0.1242467 1.4058510 1.0451798
## [1] 0.2911527 0.1252467 1.4068510 1.0451798
## [1] 0.2911527 0.1252467 1.4048510 1.0451798
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## [1] 0.2911737 0.1252302 1.4058446 1.0451959
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## [1] 0.2901947 0.1252137 1.4058381 1.0452120
## [1] 0.2911947 0.1262137 1.4058381 1.0452120
## [1] 0.2911947 0.1242137 1.4058381 1.0452120
## [1] 0.2911947 0.1252137 1.4068381 1.0452120
## [1] 0.2911947 0.1252137 1.4048381 1.0452120

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## [1] 0.2911947 0.1252137 1.4058381 1.0462120
## [1] 0.2911947 0.1252137 1.4058381 1.0442120
## [1] 0.2912232 0.1251746 1.4058053 1.0452675
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## [1] 0.2912232 0.1251746 1.4068053 1.0452675
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## [1] 0.2912232 0.1251746 1.4058053 1.0442675
## [1] 0.62707131 4.64034670 -0.07462387 4.39333318
## [1] "out of bounds"
## [1] 0.3583928 1.0282090 1.1097194 1.7148807
## [1] 0.3046571 0.3057815 1.3465881 1.1791902
## [1] 0.293910 0.161296 1.393962 1.072052
## [1] 0.2917606 0.1323989 1.4034366 1.0506244
## [1] 0.2913307 0.1266195 1.4053315 1.0463389
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## [1] 0.2902241 0.1251862 1.4058015 1.0452761
## [1] 0.2912241 0.1261862 1.4058015 1.0452761
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## [1] 0.2912215 0.1251903 1.4057963 1.0452836
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## [1] 0.2902188 0.1251945 1.4057912 1.0452912
## [1] 0.2912188 0.1261945 1.4057912 1.0452912
## [1] 0.2912188 0.1241945 1.4057912 1.0452912
## [1] 0.2912188 0.1251945 1.4067912 1.0452912
## [1] 0.2912188 0.1251945 1.4047912 1.0452912
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## [1] 0.2912067 0.1251955 1.4057728 1.0453141
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## [1] 0.2901945 0.1251966 1.4057544 1.0453371
## [1] 0.2911945 0.1261966 1.4057544 1.0453371
## [1] 0.2911945 0.1241966 1.4057544 1.0453371
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## [1] 0.2911945 0.1251966 1.4057544 1.0463371
## [1] 0.2911945 0.1251966 1.4057544 1.0443371
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## [1] 0.2911891 0.1251856 1.4057296 1.0453705
## [1] 0.2921838 0.1251745 1.4057048 1.0454039

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## [1] 0.2901838 0.1251745 1.4057048 1.0454039
## [1] 0.2911838 0.1261745 1.4057048 1.0454039
## [1] 0.2911838 0.1241745 1.4057048 1.0454039
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## [1] 0.2911838 0.1251745 1.4057048 1.0444039
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## [1] 1.3355983 0.6881308 1.4508676 1.5667736
## [1] 0.5000667 0.2377658 1.4147374 1.1496779
## [1] 0.3329603 0.1476928 1.4075113 1.0662587
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## [1] 0.2911905 0.1251781 1.4057051 1.0454073
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## [1] 0.2912141 0.1241784 1.4057034 1.0454207
## [1] 0.2912141 0.1251784 1.4067034 1.0454207
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## [1] 0.2912541 0.1241469 1.4056913 1.0454511
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## [1] 0.2912811 0.1251103 1.4046604 1.0455035
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## [1] 0.2912811 0.1251103 1.4056604 1.0465035
## [1] 0.2912811 0.1251103 1.4056604 1.0445035
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## [1] "out of bounds"
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## [1] 0.2912818 0.1241211 1.4056568 1.0455116
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## [1] 0.2912818 0.1251211 1.4046568 1.0455116
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## [1] "out of bounds"
## [1] 1.2950009 0.6683981 1.4520659 1.5428689

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## [1] 0.2912498 0.1251132 1.4055645 1.0456374
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## [1] 0.2912915 0.1250984 1.4055573 1.0456645
## [1] 0.2923106 0.1250834 1.4055517 1.0456789
## [1] 0.2903106 0.1250834 1.4055517 1.0456789
## [1] 0.2913106 0.1260834 1.4055517 1.0456789
## [1] 0.2913106 0.1240834 1.4055517 1.0456789
## [1] 0.2913106 0.1250834 1.4065517 1.0456789
## [1] 0.2913106 0.1250834 1.4045517 1.0456789
## [1] 0.2913106 0.1250834 1.4055517 1.0466789
## [1] 0.2913106 0.1250834 1.4055517 1.0446789
## [1] 0.2913361 0.1250491 1.4055226 1.0457283
## [1] 0.2913234 0.1250662 1.4055372 1.0457036
## [1] 0.2923361 0.1250491 1.4055226 1.0457283
## [1] 0.2903361 0.1250491 1.4055226 1.0457283
## [1] 0.2913361 0.1260491 1.4055226 1.0457283
## [1] 0.2913361 0.1240491 1.4055226 1.0457283
## [1] 0.2913361 0.1250491 1.4065226 1.0457283
## [1] 0.2913361 0.1250491 1.4045226 1.0457283
## [1] 0.2913361 0.1250491 1.4055226 1.0467283
## [1] 0.2913361 0.1250491 1.4055226 1.0447283
## [1] 0.5182375 4.0106052 0.0510056 4.0259209
## [1] "out of bounds"
## [1] 0.3367164 0.9021604 1.1346192 1.6417668
## [1] 0.3004122 0.2804714 1.3513420 1.1649360
## [1] 0.2931513 0.1561336 1.3946865 1.0695698
## [1] 0.2916992 0.1312660 1.4033554 1.0504966
## [1] 0.2914087 0.1262925 1.4050892 1.0466819
## [1] 0.2913507 0.1252978 1.4054360 1.0459190

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## [1] 0.2913390 0.1250989 1.4055053 1.0457664
## [1] 0.2913367 0.1250591 1.4055192 1.0457359
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## [1] 0.2903100 0.1250685 1.4054762 1.0457918
## [1] 0.2913100 0.1260685 1.4054762 1.0457918
## [1] 0.2913100 0.1240685 1.4054762 1.0457918
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## [1] 0.2913100 0.1250685 1.4044762 1.0457918
## [1] 0.2913100 0.1250685 1.4054762 1.0467918
## [1] 0.2913100 0.1250685 1.4054762 1.0447918
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## [1] 0.2913050 0.1250582 1.4054533 1.0458227
## [1] 0.292300 0.125048 1.405430 1.045854
## [1] 0.290300 0.125048 1.405430 1.045854
## [1] 0.291300 0.126048 1.405430 1.045854
## [1] 0.291300 0.124048 1.405430 1.045854
## [1] 0.291300 0.125048 1.406430 1.045854
## [1] 0.291300 0.125048 1.404430 1.045854
## [1] 0.291300 0.125048 1.405430 1.046854
## [1] 0.291300 0.125048 1.405430 1.044854
## [1] 5.119084 2.746795 1.645042 3.416734
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## [1] 0.4844114 0.2299179 1.4150149 1.1406888
## [1] 0.3299223 0.1460220 1.4073473 1.0648206
## [1] 0.2990245 0.1292428 1.4058138 1.0496470
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## [1] 0.2916090 0.1252158 1.4054458 1.0460053
## [1] 0.2913618 0.1250815 1.4054335 1.0458839
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## [1] 0.2913062 0.1250513 1.4054307 1.0458566
## [1] 0.2923124 0.1250547 1.4054310 1.0458596
## [1] 0.2903124 0.1250547 1.4054310 1.0458596

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## [1] 0.2913124 0.1260547 1.4054310 1.0458596
## [1] 0.2913124 0.1240547 1.4054310 1.0458596
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## [1] 0.2913124 0.1250547 1.4054310 1.0468596
## [1] 0.2913124 0.1250547 1.4054310 1.0448596
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## [1] 0.2913202 0.1250531 1.4054302 1.0458642
## [1] 0.2923279 0.1250516 1.4054293 1.0458687
## [1] 0.2903279 0.1250516 1.4054293 1.0458687
## [1] 0.2913279 0.1260516 1.4054293 1.0458687
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## [1] 0.2913279 0.1250516 1.4064293 1.0458687
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## [1] 0.2913279 0.1250516 1.4054293 1.0448687
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## [1] 0.2913462 0.1250372 1.4054241 1.0458823
## [1] 0.2923644 0.1250228 1.4054188 1.0458958
## [1] 0.2903644 0.1250228 1.4054188 1.0458958
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## [1] 0.2913644 0.1240228 1.4054188 1.0458958
## [1] 0.2913644 0.1250228 1.4064188 1.0458958
## [1] 0.2913644 0.1250228 1.4044188 1.0458958
## [1] 0.2913644 0.1250228 1.4054188 1.0468958
## [1] 0.2913644 0.1250228 1.4054188 1.0448958
## [1] 0.2913886 0.1249909 1.4053916 1.0459423
## [1] 0.2913765 0.1250068 1.4054052 1.0459191
## [1] 0.2923886 0.1249909 1.4053916 1.0459423
## [1] 0.2903886 0.1249909 1.4053916 1.0459423
## [1] 0.2913886 0.1259909 1.4053916 1.0459423
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## [1] 0.2913886 0.1249909 1.4063916 1.0459423
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## [1] 0.2913886 0.1249909 1.4053916 1.0469423
## [1] 0.2913886 0.1249909 1.4053916 1.0449423
## [1] 0.4662208 3.7186638 0.1086376 3.8555875
## [1] "out of bounds"
## [1] 0.3263550 0.8437254 1.1460408 1.6078714
## [1] 0.2983819 0.2687378 1.3535214 1.1583281
## [1] 0.2927872 0.1537402 1.3950175 1.0684195
## [1] 0.2916683 0.1307407 1.4033168 1.0504377
## [1] 0.2914445 0.1261408 1.4049766 1.0468414
## [1] 0.2913998 0.1252209 1.4053086 1.0461221
## [1] 0.2913908 0.1250369 1.4053750 1.0459783
## [1] 0.2913890 0.1250001 1.4053883 1.0459495
## [1] 0.2913888 0.1249955 1.4053899 1.0459459
## [1] 0.2923890 0.1250001 1.4053883 1.0459495
## [1] 0.2903890 0.1250001 1.4053883 1.0459495
## [1] 0.2913890 0.1260001 1.4053883 1.0459495
## [1] 0.2913890 0.1240001 1.4053883 1.0459495
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## [1] 0.2913890 0.1250001 1.4053883 1.0449495
## [1] 0.2913845 0.1250071 1.4053793 1.0459627
## [1] 0.2913867 0.1250036 1.4053838 1.0459561
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## [1] 0.2913635 0.1250090 1.4053471 1.0460031
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## [1] "out of bounds"
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## [1] 0.4770758 0.2259695 1.4151250 1.1364397
## [1] 0.3284984 0.1451853 1.4072675 1.0641379
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## [1] 0.2928398 0.1257971 1.4053817 1.0467855
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## [1] 0.2913733 0.1249942 1.4053030 1.0460726
## [1] 0.2923808 0.1249927 1.4053022 1.0460769
## [1] 0.2903808 0.1249927 1.4053022 1.0460769

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## [1] 0.2913808 0.1259927 1.4053022 1.0460769
## [1] 0.2913808 0.1239927 1.4053022 1.0460769
## [1] 0.2913808 0.1249927 1.4063022 1.0460769
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## [1] 0.2913808 0.1249927 1.4053022 1.0450769
## [1] 0.2914157 0.1249652 1.4052924 1.0461025
## [1] 0.2913982 0.1249790 1.4052973 1.0460897
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## [1] 0.2904157 0.1249652 1.4052924 1.0461025
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## [1] 0.2914157 0.1239652 1.4052924 1.0461025
## [1] 0.2914157 0.1249652 1.4062924 1.0461025
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## [1] 0.2914157 0.1249652 1.4052924 1.0451025
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## [1] 0.2904385 0.1249353 1.4052668 1.0461463
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## [1] 0.2914385 0.1249353 1.4052668 1.0451463
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## [1] "out of bounds"
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## [1] 0.2965207 0.2579726 1.3556020 1.1521385
## [1] 0.2924550 0.1515428 1.3953339 1.0673447
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## [1] 0.2904388 0.1249438 1.4052637 1.0461531
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## [1] 0.2914388 0.1249438 1.4042637 1.0461531
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## [1] 0.2914388 0.1249438 1.4052637 1.0451531
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## [1] 0.2904345 0.1249506 1.4052550 1.0461657
## [1] 0.2914345 0.1259506 1.4052550 1.0461657
## [1] 0.2914345 0.1239506 1.4052550 1.0461657
## [1] 0.2914345 0.1249506 1.4062550 1.0461657
## [1] 0.2914345 0.1249506 1.4042550 1.0461657
## [1] 0.2914345 0.1249506 1.4052550 1.0471657

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## [1] 0.2914345 0.1249506 1.4052550 1.0451657
## [1] 0.2914145 0.1249523 1.4052243 1.0462044
## [1] 0.2914245 0.1249514 1.4052397 1.0461850
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## [1] 0.2904145 0.1249523 1.4052243 1.0462044
## [1] 0.2914145 0.1259523 1.4052243 1.0462044
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## [1] 0.2914111 0.1249365 1.4051824 1.0462643
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## [1] 0.2904168 0.1249396 1.4051827 1.0462670
## [1] 0.2914168 0.1259396 1.4051827 1.0462670
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## [1] 0.2914168 0.1249396 1.4051827 1.0472670
## [1] 0.2914168 0.1249396 1.4051827 1.0452670
## [1] 0.2914311 0.1249367 1.4051813 1.0462752
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## [1] 0.2904311 0.1249367 1.4051813 1.0462752
## [1] 0.2914311 0.1259367 1.4051813 1.0462752
## [1] 0.2914311 0.1239367 1.4051813 1.0462752
## [1] 0.2914311 0.1249367 1.4061813 1.0462752
## [1] 0.2914311 0.1249367 1.4041813 1.0462752
## [1] 0.2914311 0.1249367 1.4051813 1.0472752
## [1] 0.2914311 0.1249367 1.4051813 1.0452752
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## [1] 0.2914478 0.1249235 1.4051767 1.0462872
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## [1] 0.2904645 0.1249103 1.4051721 1.0462993

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## [1] 0.2914645 0.1259103 1.4051721 1.0462993
## [1] 0.2914645 0.1239103 1.4051721 1.0462993
## [1] 0.2914645 0.1249103 1.4061721 1.0462993
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## [1] 0.2914645 0.1249103 1.4051721 1.0452993
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## [1] 0.2914753 0.1248963 1.4051601 1.0463200
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## [1] 0.2914861 0.1238823 1.4051481 1.0463406
## [1] 0.2914861 0.1248823 1.4061481 1.0463406
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## [1] 0.2914861 0.1248823 1.4051481 1.0473406
## [1] 0.2914861 0.1248823 1.4051481 1.0453406
## [1] 0.3779549 3.2147708 0.2168891 3.5485716
## [1] "out of bounds"
## [1] 0.3087799 0.7428600 1.1674963 1.5467868
## [1] 0.2949449 0.2484779 1.3576177 1.1464299
## [1] 0.2921779 0.1496014 1.3956420 1.0663585
## [1] 0.2916245 0.1298261 1.4032469 1.0503442
## [1] 0.2915138 0.1258711 1.4047679 1.0471413
## [1] 0.2914917 0.1250801 1.4050720 1.0465008
## [1] 0.2914872 0.1249219 1.4051329 1.0463726
## [1] 0.2914864 0.1248902 1.4051451 1.0463470
## [1] 0.2914862 0.1248863 1.4051466 1.0463438
## [1] 0.2924864 0.1248902 1.4051451 1.0463470
## [1] 0.2904864 0.1248902 1.4051451 1.0463470
## [1] 0.2914864 0.1258902 1.4051451 1.0463470
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## [1] 0.2914864 0.1248902 1.4051451 1.0473470
## [1] 0.2914864 0.1248902 1.4051451 1.0453470
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## [1] 0.2904822 0.1248967 1.4051368 1.0463591
## [1] 0.2914822 0.1258967 1.4051368 1.0463591
## [1] 0.2914822 0.1238967 1.4051368 1.0463591
## [1] 0.2914822 0.1248967 1.4061368 1.0463591
## [1] 0.2914822 0.1248967 1.4041368 1.0463591
## [1] 0.2914822 0.1248967 1.4051368 1.0473591
## [1] 0.2914822 0.1248967 1.4051368 1.0453591
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## [1] 0.2914726 0.1248975 1.4051221 1.0463776
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## [1] 0.2914631 0.1258983 1.4051074 1.0463961
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## [1] 0.2914631 0.1248983 1.4051074 1.0473961

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## [1] 0.2914631 0.1248983 1.4051074 1.0453961
## [1] 0.2914544 0.1248802 1.4050670 1.0464509
## [1] 0.2914588 0.1248892 1.4050872 1.0464235
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## [1] 0.2904544 0.1248802 1.4050670 1.0464509
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## [1] 0.2914544 0.1248802 1.4060670 1.0464509
## [1] 0.2914544 0.1248802 1.4040670 1.0464509
## [1] 0.2914544 0.1248802 1.4050670 1.0474509
## [1] 0.2914544 0.1248802 1.4050670 1.0454509
## [1] 4.557886 2.427506 1.651744 3.089904
## [1] "out of bounds"
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## [1] 0.4621117 0.2169852 1.4149341 1.1281890
## [1] 0.3255858 0.1433012 1.4070404 1.0627985
## [1] 0.2982807 0.1285644 1.4054617 1.0497204
## [1] 0.2928196 0.1256170 1.4051459 1.0471048
## [1] 0.2917274 0.1250276 1.4050828 1.0465817
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## [1] 0.2914599 0.1248832 1.4050673 1.0464535
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## [1] 0.2904653 0.1248861 1.4050676 1.0464561
## [1] 0.2914653 0.1258861 1.4050676 1.0464561
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## [1] 0.2914653 0.1248861 1.4040676 1.0464561
## [1] 0.2914653 0.1248861 1.4050676 1.0474561
## [1] 0.2914653 0.1248861 1.4050676 1.0454561
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## [1] 0.2914722 0.1248847 1.4050670 1.0464600
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## [1] 0.2914790 0.1248833 1.4050663 1.0454639
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## [1] 0.2905110 0.1248581 1.4050577 1.0464867
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## [1] 0.2915110 0.1238581 1.4050577 1.0464867
## [1] 0.2915110 0.1248581 1.4060577 1.0464867
## [1] 0.2915110 0.1248581 1.4040577 1.0464867
## [1] 0.2915110 0.1248581 1.4050577 1.0474867
## [1] 0.2915110 0.1248581 1.4050577 1.0454867
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## [1] 0.2915212 0.1248449 1.4050464 1.0465062
## [1] 0.2925315 0.1248318 1.4050351 1.0465258
## [1] 0.2905315 0.1248318 1.4050351 1.0465258

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## [1] 0.2915315 0.1258318 1.4050351 1.0465258
## [1] 0.2915315 0.1238318 1.4050351 1.0465258
## [1] 0.2915315 0.1248318 1.4060351 1.0465258
## [1] 0.2915315 0.1248318 1.4040351 1.0465258
## [1] 0.2915315 0.1248318 1.4050351 1.0475258
## [1] 0.2915315 0.1248318 1.4050351 1.0455258
## [1] 0.3469258 3.0143802 0.2691298 3.4141627
## [1] "out of bounds"
## [1] 0.3026104 0.7027415 1.1778540 1.5200531
## [1] 0.2937473 0.2404137 1.3595989 1.1412312
## [1] 0.2919747 0.1479482 1.3959479 1.0654669
## [1] 0.2916201 0.1294550 1.4032176 1.0503140
## [1] 0.2915492 0.1257564 1.4046716 1.0472834
## [1] 0.2915350 0.1250167 1.4049624 1.0466773
## [1] 0.2915322 0.1248688 1.4050206 1.0465561
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## [1] 0.2915316 0.1248355 1.4050336 1.0465288
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## [1] 0.2905316 0.1248392 1.4050322 1.0465318
## [1] 0.2915316 0.1258392 1.4050322 1.0465318
## [1] 0.2915316 0.1238392 1.4050322 1.0465318
## [1] 0.2915316 0.1248392 1.4060322 1.0465318
## [1] 0.2915316 0.1248392 1.4040322 1.0465318
## [1] 0.2915316 0.1248392 1.4050322 1.0475318
## [1] 0.2915316 0.1248392 1.4050322 1.0455318
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## [1] 0.2915185 0.1248461 1.4050103 1.0465611
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## [1] 0.2905094 0.1248468 1.4049963 1.0465787
## [1] 0.2915094 0.1258468 1.4049963 1.0465787
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## [1] 0.2915094 0.1248468 1.4049963 1.0475787
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## [1] 0.2915011 0.1248297 1.4039577 1.0466310
## [1] 0.2915011 0.1248297 1.4049577 1.0476310

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## [1] 0.2915011 0.1248297 1.4049577 1.0456310
## [1] 4.359978 2.303305 1.645069 2.985651
## [1] "out of bounds"
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## [1] 0.4542402 0.2119687 1.4145622 1.1241918
## [1] 0.3240489 0.1422575 1.4068786 1.0621432
## [1] 0.2980107 0.1283152 1.4053419 1.0497335
## [1] 0.2928030 0.1255268 1.4050345 1.0472515
## [1] 0.2917615 0.1249691 1.4049731 1.0467551
## [1] 0.2915532 0.1248575 1.4049608 1.0466559
## [1] 0.2915115 0.1248352 1.4049583 1.0466360
## [1] 0.2915063 0.1248324 1.4049580 1.0466335
## [1] 0.2925115 0.1248352 1.4049583 1.0466360
## [1] 0.2905115 0.1248352 1.4049583 1.0466360
## [1] 0.2915115 0.1258352 1.4049583 1.0466360
## [1] 0.2915115 0.1238352 1.4049583 1.0466360
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## [1] 0.2915246 0.1258326 1.4049571 1.0466434
## [1] 0.2915246 0.1238326 1.4049571 1.0466434
## [1] 0.2915246 0.1248326 1.4059571 1.0466434
## [1] 0.2915246 0.1248326 1.4039571 1.0466434
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## [1] 0.2915246 0.1248326 1.4049571 1.0456434
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## [1] 0.2915747 0.1247836 1.4049276 1.0457020
## [1] 0.3258169 2.8470860 0.3207141 3.2918648
## [1] "out of bounds"
## [1] 0.2984231 0.6692440 1.1880849 1.4957346
## [1] 0.2929444 0.2336757 1.3615591 1.1365086

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## [1] 0.2918486 0.1465620 1.3962539 1.0646634
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## [1] 0.2915856 0.1256547 1.4045807 1.0474205
## [1] 0.2915769 0.1249578 1.4048582 1.0468457
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## [1] 0.2915748 0.1247905 1.4039248 1.0467078
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## [1] 0.2905709 0.1247964 1.4049173 1.0467189
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## [1] 0.2905456 0.1247816 1.4048539 1.0468023
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## [1] 0.2915456 0.1247816 1.4048539 1.0458023
## [1] 4.159014 2.177648 1.634664 2.885262
## [1] "out of bounds"
## [1] 1.0650392 0.5353549 1.4508159 1.4144943
## [1] 0.4462443 0.2068963 1.4140463 1.1203407
## [1] 0.3224853 0.1412045 1.4066924 1.0615100
## [1] 0.2977336 0.1280662 1.4052216 1.0497438
## [1] 0.2927832 0.1254385 1.4049275 1.0473906
## [1] 0.2917931 0.1249130 1.4048686 1.0469200
## [1] 0.2915951 0.1248079 1.4048569 1.0468258

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## [1] 0.2915555 0.1247868 1.4048545 1.0468070
## [1] 0.2915506 0.1247842 1.4048542 1.0468047
## [1] 0.2925555 0.1247868 1.4048545 1.0468070
## [1] 0.2905555 0.1247868 1.4048545 1.0468070
## [1] 0.2915555 0.1257868 1.4048545 1.0468070
## [1] 0.2915555 0.1237868 1.4048545 1.0468070
## [1] 0.2915555 0.1247868 1.4058545 1.0468070
## [1] 0.2915555 0.1247868 1.4038545 1.0468070
## [1] 0.2915555 0.1247868 1.4048545 1.0478070
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## [1] 0.2925680 0.1247843 1.4048534 1.0468140
## [1] 0.2905680 0.1247843 1.4048534 1.0468140
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## [1] 0.2905972 0.1247612 1.4048457 1.0468346
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## [1] 0.2915972 0.1237612 1.4048457 1.0468346
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## [1] 0.2915972 0.1247612 1.4038457 1.0468346
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## [1] 0.2915972 0.1247612 1.4048457 1.0458346
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## [1] 0.2916065 0.1247495 1.4048356 1.0468522
## [1] 0.2926157 0.1247377 1.4048254 1.0468698
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## [1] 0.2916157 0.1247377 1.4048254 1.0458698
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## [1] "out of bounds"
## [1] 0.2958780 0.6407498 1.1981553 1.4734017
## [1] 0.2924682 0.2279401 1.3634914 1.1321762
## [1] 0.2917862 0.1453782 1.3965586 1.0639311
## [1] 0.2916498 0.1288658 1.4031721 1.0502820
## [1] 0.2916226 0.1255633 1.4044947 1.0475522
## [1] 0.2916171 0.1249028 1.4047593 1.0470063
## [1] 0.2916160 0.1247707 1.4048122 1.0468971
## [1] 0.2916158 0.1247443 1.4048228 1.0468752
## [1] 0.2916158 0.1247410 1.4048241 1.0468725
## [1] 0.2926158 0.1247443 1.4048228 1.0468752
## [1] 0.2906158 0.1247443 1.4048228 1.0468752
## [1] 0.2916158 0.1257443 1.4048228 1.0468752

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## [1] 0.2916158 0.1237443 1.4048228 1.0468752
## [1] 0.2916158 0.1247443 1.4058228 1.0468752
## [1] 0.2916158 0.1247443 1.4038228 1.0468752
## [1] 0.2916158 0.1247443 1.4048228 1.0478752
## [1] 0.2916158 0.1247443 1.4048228 1.0458752
## [1] 0.2916121 0.1247498 1.4048156 1.0468858
## [1] 0.2916139 0.1247471 1.4048192 1.0468805
## [1] 0.2926121 0.1247498 1.4048156 1.0468858
## [1] 0.2906121 0.1247498 1.4048156 1.0468858
## [1] 0.2916121 0.1257498 1.4048156 1.0468858
## [1] 0.2916121 0.1237498 1.4048156 1.0468858
## [1] 0.2916121 0.1247498 1.4058156 1.0468858
## [1] 0.2916121 0.1247498 1.4038156 1.0468858
## [1] 0.2916121 0.1247498 1.4048156 1.0478858
## [1] 0.2916121 0.1247498 1.4048156 1.0458858
## [1] 0.2915954 0.1247513 1.4047902 1.0469177
## [1] 0.2916037 0.1247506 1.4048029 1.0469018
## [1] 0.2925954 0.1247513 1.4047902 1.0469177
## [1] 0.2905954 0.1247513 1.4047902 1.0469177
## [1] 0.2915954 0.1257513 1.4047902 1.0469177
## [1] 0.2915954 0.1237513 1.4047902 1.0469177
## [1] 0.2915954 0.1247513 1.4057902 1.0469177
## [1] 0.2915954 0.1247513 1.4037902 1.0469177
## [1] 0.2915954 0.1247513 1.4047902 1.0479177
## [1] 0.2915954 0.1247513 1.4047902 1.0459177
## [1] 0.2915880 0.1247359 1.4047554 1.0469651
## [1] 0.2915917 0.1247436 1.4047728 1.0469414
## [1] 0.2925880 0.1247359 1.4047554 1.0469651
## [1] 0.2905880 0.1247359 1.4047554 1.0469651
## [1] 0.2915880 0.1257359 1.4047554 1.0469651
## [1] 0.2915880 0.1237359 1.4047554 1.0469651
## [1] 0.2915880 0.1247359 1.4057554 1.0469651
## [1] 0.2915880 0.1247359 1.4037554 1.0469651
## [1] 0.2915880 0.1247359 1.4047554 1.0479651
## [1] 0.2915880 0.1247359 1.4047554 1.0459651
## [1] 3.960445 2.056413 1.622248 2.789792
## [1] "out of bounds"
## [1] 1.0253593 0.5110712 1.4482538 1.3955305
## [1] 0.4383422 0.2020029 1.4134551 1.1166782
## [1] 0.3209388 0.1401893 1.4064953 1.0609077
## [1] 0.2974581 0.1278266 1.4051034 1.0497536
## [1] 0.292762 0.125354 1.404825 1.047523
## [1] 0.2918228 0.1248595 1.4047693 1.0470766
## [1] 0.2916349 0.1247606 1.4047582 1.0469874
## [1] 0.2915974 0.1247408 1.4047559 1.0469695
## [1] 0.2915927 0.1247383 1.4047557 1.0469673
## [1] 0.2925974 0.1247408 1.4047559 1.0469695
## [1] 0.2905974 0.1247408 1.4047559 1.0469695
## [1] 0.2915974 0.1257408 1.4047559 1.0469695
## [1] 0.2915974 0.1237408 1.4047559 1.0469695
## [1] 0.2915974 0.1247408 1.4057559 1.0469695
## [1] 0.2915974 0.1247408 1.4037559 1.0469695
## [1] 0.2915974 0.1247408 1.4047559 1.0479695
## [1] 0.2915974 0.1247408 1.4047559 1.0459695

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## [1] 0.2916093 0.1247384 1.4047549 1.0469762
## [1] 0.2916033 0.1247396 1.4047554 1.0469729
## [1] 0.2926093 0.1247384 1.4047549 1.0469762
## [1] 0.2906093 0.1247384 1.4047549 1.0469762
## [1] 0.2916093 0.1257384 1.4047549 1.0469762
## [1] 0.2916093 0.1237384 1.4047549 1.0469762
## [1] 0.2916093 0.1247384 1.4057549 1.0469762
## [1] 0.2916093 0.1247384 1.4037549 1.0469762
## [1] 0.2916093 0.1247384 1.4047549 1.0479762
## [1] 0.2916093 0.1247384 1.4047549 1.0459762
## [1] 0.2916372 0.1247164 1.4047476 1.0469958
## [1] 0.2916232 0.1247274 1.4047512 1.0469860
## [1] 0.2926372 0.1247164 1.4047476 1.0469958
## [1] 0.2906372 0.1247164 1.4047476 1.0469958
## [1] 0.2916372 0.1257164 1.4047476 1.0469958
## [1] 0.2916372 0.1237164 1.4047476 1.0469958
## [1] 0.2916372 0.1247164 1.4057476 1.0469958
## [1] 0.2916372 0.1247164 1.4037476 1.0469958
## [1] 0.2916372 0.1247164 1.4047476 1.0479958
## [1] 0.2916372 0.1247164 1.4047476 1.0459958
## [1] 0.2916548 0.1246940 1.4047283 1.0470293
## [1] 0.2916460 0.1247052 1.4047380 1.0470125
## [1] 0.2926548 0.1246940 1.4047283 1.0470293
## [1] 0.2906548 0.1246940 1.4047283 1.0470293
## [1] 0.2916548 0.1256940 1.4047283 1.0470293
## [1] 0.2916548 0.1236940 1.4047283 1.0470293
## [1] 0.2916548 0.1246940 1.4057283 1.0470293
## [1] 0.2916548 0.1246940 1.4037283 1.0470293
## [1] 0.2916548 0.1246940 1.4047283 1.0480293
## [1] 0.2916548 0.1246940 1.4047283 1.0460293
## [1] 0.3055476 2.5784804 0.4209517 3.0748085
## [1] "out of bounds"
## [1] 0.2944333 0.6154513 1.2079730 1.4525851
## [1] 0.2922105 0.2228455 1.3653772 1.1281404
## [1] 0.2917659 0.1443243 1.3968581 1.0632515
## [1] 0.2916770 0.1286201 1.4031543 1.0502737
## [1] 0.2916592 0.1254792 1.4044135 1.0476782
## [1] 0.2916556 0.1248511 1.4046654 1.0471591
## [1] 0.2916549 0.1247254 1.4047157 1.0470552
## [1] 0.2916548 0.1247003 1.4047258 1.0470345
## [1] 0.2916548 0.1246972 1.4047271 1.0470319
## [1] 0.2926548 0.1247003 1.4047258 1.0470345
## [1] 0.2906548 0.1247003 1.4047258 1.0470345
## [1] 0.2916548 0.1257003 1.4047258 1.0470345
## [1] 0.2916548 0.1237003 1.4047258 1.0470345
## [1] 0.2916548 0.1247003 1.4057258 1.0470345
## [1] 0.2916548 0.1247003 1.4037258 1.0470345
## [1] 0.2916548 0.1247003 1.4047258 1.0480345
## [1] 0.2916548 0.1247003 1.4047258 1.0460345
## [1] 0.2916512 0.1247056 1.4047190 1.0470445
## [1] 0.291653 0.124703 1.404722 1.047039
## [1] 0.2926512 0.1247056 1.4047190 1.0470445
## [1] 0.2906512 0.1247056 1.4047190 1.0470445
## [1] 0.2916512 0.1257056 1.4047190 1.0470445

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## [1] 0.2916512 0.1237056 1.4047190 1.0470445
## [1] 0.2916512 0.1247056 1.4057190 1.0470445
## [1] 0.2916512 0.1247056 1.4037190 1.0470445
## [1] 0.2916512 0.1247056 1.4047190 1.0480445
## [1] 0.2916512 0.1247056 1.4047190 1.0460445
## [1] 0.2916353 0.1247070 1.4046948 1.0470749
## [1] 0.2916433 0.1247063 1.4047069 1.0470597
## [1] 0.2926353 0.1247070 1.4046948 1.0470749
## [1] 0.2906353 0.1247070 1.4046948 1.0470749
## [1] 0.2916353 0.1257070 1.4046948 1.0470749
## [1] 0.2916353 0.1237070 1.4046948 1.0470749
## [1] 0.2916353 0.1247070 1.4056948 1.0470749
## [1] 0.2916353 0.1247070 1.4036948 1.0470749
## [1] 0.2916353 0.1247070 1.4046948 1.0480749
## [1] 0.2916353 0.1247070 1.4046948 1.0460749
## [1] 0.2916283 0.1246924 1.4046618 1.0471198
## [1] 0.2916318 0.1246997 1.4046783 1.0470973
## [1] 0.2926283 0.1246924 1.4046618 1.0471198
## [1] 0.2906283 0.1246924 1.4046618 1.0471198
## [1] 0.2916283 0.1256924 1.4046618 1.0471198
## [1] 0.2916283 0.1236924 1.4046618 1.0471198
## [1] 0.2916283 0.1246924 1.4056618 1.0471198
## [1] 0.2916283 0.1246924 1.4036618 1.0471198
## [1] 0.2916283 0.1246924 1.4046618 1.0481198
## [1] 0.2916283 0.1246924 1.4046618 1.0461198
## [1] 3.768684 1.942662 1.609304 2.699616
## [1] "out of bounds"
## [1] 0.9870395 0.4882864 1.4455904 1.3776190
## [1] 0.4307105 0.1974112 1.4128475 1.1132196
## [1] 0.3194447 0.1392362 1.4062990 1.0603397
## [1] 0.2971915 0.1276012 1.4049893 1.0497638
## [1] 0.2927409 0.1252742 1.4047273 1.0476486
## [1] 0.2918508 0.1248088 1.4046749 1.0472255
## [1] 0.2916728 0.1247157 1.4046645 1.0471409
## [1] 0.2916372 0.1246971 1.4046624 1.0471240
## [1] 0.2916327 0.1246948 1.4046621 1.0471219
## [1] 0.2926372 0.1246971 1.4046624 1.0471240
## [1] 0.2906372 0.1246971 1.4046624 1.0471240
## [1] 0.2916372 0.1256971 1.4046624 1.0471240
## [1] 0.2916372 0.1236971 1.4046624 1.0471240
## [1] 0.2916372 0.1246971 1.4056624 1.0471240
## [1] 0.2916372 0.1246971 1.4036624 1.0471240
## [1] 0.2916372 0.1246971 1.4046624 1.0481240
## [1] 0.2916372 0.1246971 1.4046624 1.0461240
## [1] 0.2916485 0.1246947 1.4046613 1.0471304
## [1] 0.2916429 0.1246959 1.4046619 1.0471272
## [1] 0.2926485 0.1246947 1.4046613 1.0471304
## [1] 0.2906485 0.1246947 1.4046613 1.0471304
## [1] 0.2916485 0.1256947 1.4046613 1.0471304
## [1] 0.2916485 0.1236947 1.4046613 1.0471304
## [1] 0.2916485 0.1246947 1.4056613 1.0471304
## [1] 0.2916485 0.1246947 1.4036613 1.0471304
## [1] 0.2916485 0.1246947 1.4046613 1.0481304
## [1] 0.2916485 0.1246947 1.4046613 1.0461304

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## [1] 0.2916751 0.1246738 1.4046544 1.0471490
## [1] 0.2916618 0.1246843 1.4046579 1.0471397
## [1] 0.2926751 0.1246738 1.4046544 1.0471490
## [1] 0.2906751 0.1246738 1.4046544 1.0471490
## [1] 0.2916751 0.1256738 1.4046544 1.0471490
## [1] 0.2916751 0.1236738 1.4046544 1.0471490
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## [1] 0.2916751 0.1246738 1.4036544 1.0471490
## [1] 0.2916751 0.1246738 1.4046544 1.0481490
## [1] 0.2916751 0.1246738 1.4046544 1.0461490
## [1] 0.2916918 0.1246525 1.4046361 1.0471809
## [1] 0.2916834 0.1246632 1.4046453 1.0471650
## [1] 0.2926918 0.1246525 1.4046361 1.0471809
## [1] 0.2906918 0.1246525 1.4046361 1.0471809
## [1] 0.2916918 0.1256525 1.4046361 1.0471809
## [1] 0.2916918 0.1236525 1.4046361 1.0471809
## [1] 0.2916918 0.1246525 1.4056361 1.0471809
## [1] 0.2916918 0.1246525 1.4036361 1.0471809
## [1] 0.2916918 0.1246525 1.4046361 1.0481809
## [1] 0.2916918 0.1246525 1.4046361 1.0461809
## [1] 0.3012305 2.4616483 0.4686858 2.9759874
## [1] "out of bounds"
## [1] 0.2935995 0.5920517 1.2174460 1.4329422
## [1] 0.2920734 0.2181324 1.3671981 1.1243332
## [1] 0.2917681 0.1433485 1.3971485 1.0626114
## [1] 0.2917071 0.1283917 1.4031386 1.0502670
## [1] 0.2916949 0.1254004 1.4043366 1.0477981
## [1] 0.2916924 0.1248021 1.4045762 1.0473043
## [1] 0.2916919 0.1246824 1.4046241 1.0472056
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## [1] 0.2916918 0.1246555 1.4046349 1.0471834
## [1] 0.2926918 0.1246585 1.4046337 1.0471858
## [1] 0.2906918 0.1246585 1.4046337 1.0471858
## [1] 0.2916918 0.1256585 1.4046337 1.0471858
## [1] 0.2916918 0.1236585 1.4046337 1.0471858
## [1] 0.2916918 0.1246585 1.4056337 1.0471858
## [1] 0.2916918 0.1246585 1.4036337 1.0471858
## [1] 0.2916918 0.1246585 1.4046337 1.0481858
## [1] 0.2916918 0.1246585 1.4046337 1.0461858
## [1] 0.2916884 0.1246636 1.4046272 1.0471954
## [1] 0.2916901 0.1246610 1.4046304 1.0471906
## [1] 0.2926884 0.1246636 1.4046272 1.0471954
## [1] 0.2906884 0.1246636 1.4046272 1.0471954
## [1] 0.2916884 0.1256636 1.4046272 1.0471954
## [1] 0.2916884 0.1236636 1.4046272 1.0471954
## [1] 0.2916884 0.1246636 1.4056272 1.0471954
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## [1] 0.2916732 0.1246649 1.4046042 1.0472243
## [1] 0.2916808 0.1246642 1.4046157 1.0472098
## [1] 0.2926732 0.1246649 1.4046042 1.0472243
## [1] 0.2906732 0.1246649 1.4046042 1.0472243
## [1] 0.2916732 0.1256649 1.4046042 1.0472243

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## [1] 0.2916732 0.1236649 1.4046042 1.0472243
## [1] 0.2916732 0.1246649 1.4056042 1.0472243
## [1] 0.2916732 0.1246649 1.4036042 1.0472243
## [1] 0.2916732 0.1246649 1.4046042 1.0482243
## [1] 0.2916732 0.1246649 1.4046042 1.0462243
## [1] 0.2916666 0.1246511 1.4045730 1.0472668
## [1] 0.2916699 0.1246580 1.4045886 1.0472455
## [1] 0.2926666 0.1246511 1.4045730 1.0472668
## [1] 0.2906666 0.1246511 1.4045730 1.0472668
## [1] 0.2916666 0.1256511 1.4045730 1.0472668
## [1] 0.2916666 0.1236511 1.4045730 1.0472668
## [1] 0.2916666 0.1246511 1.4055730 1.0472668
## [1] 0.2916666 0.1246511 1.4035730 1.0472668
## [1] 0.2916666 0.1246511 1.4045730 1.0482668
## [1] 0.2916666 0.1246511 1.4045730 1.0462668
## [1] 3.586108 1.837006 1.596731 2.614579
## [1] "out of bounds"
## [1] 0.9505548 0.4671220 1.4430046 1.3607292
## [1] 0.4234442 0.1931453 1.4122593 1.1099593
## [1] 0.3180221 0.1383500 1.4061103 1.0598053
## [1] 0.2969377 0.1273909 1.4048804 1.0497745
## [1] 0.2927208 0.1251991 1.4046345 1.0477684
## [1] 0.2918774 0.1247607 1.4045853 1.0473671
## [1] 0.2917087 0.1246730 1.4045754 1.0472869
## [1] 0.2916750 0.1246555 1.4045735 1.0472708
## [1] 0.2916708 0.1246533 1.4045732 1.0472688
## [1] 0.2926750 0.1246555 1.4045735 1.0472708
## [1] 0.2906750 0.1246555 1.4045735 1.0472708
## [1] 0.2916750 0.1256555 1.4045735 1.0472708
## [1] 0.2916750 0.1236555 1.4045735 1.0472708
## [1] 0.2916750 0.1246555 1.4055735 1.0472708
## [1] 0.2916750 0.1246555 1.4035735 1.0472708
## [1] 0.2916750 0.1246555 1.4045735 1.0482708
## [1] 0.2916750 0.1246555 1.4045735 1.0462708
## [1] 0.2916858 0.1246533 1.4045725 1.0472769
## [1] 0.2916804 0.1246544 1.4045730 1.0472739
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## [1] 0.2906858 0.1246533 1.4045725 1.0472769
## [1] 0.2916858 0.1256533 1.4045725 1.0472769
## [1] 0.2916858 0.1236533 1.4045725 1.0472769
## [1] 0.2916858 0.1246533 1.4055725 1.0472769
## [1] 0.2916858 0.1246533 1.4035725 1.0472769
## [1] 0.2916858 0.1246533 1.4045725 1.0482769
## [1] 0.2916858 0.1246533 1.4045725 1.0462769
## [1] 0.2917111 0.1246334 1.4045659 1.0472947
## [1] 0.2916984 0.1246433 1.4045692 1.0472858
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## [1] 0.2907111 0.1246334 1.4045659 1.0472947
## [1] 0.2917111 0.1256334 1.4045659 1.0472947
## [1] 0.2917111 0.1236334 1.4045659 1.0472947
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## [1] 0.2917111 0.1246334 1.4035659 1.0472947
## [1] 0.2917111 0.1246334 1.4045659 1.0482947
## [1] 0.2917111 0.1246334 1.4045659 1.0462947

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## [1] 0.2917270 0.1246131 1.4045485 1.0473250
## [1] 0.2917190 0.1246233 1.4045572 1.0473099
## [1] 0.2927270 0.1246131 1.4045485 1.0473250
## [1] 0.2907270 0.1246131 1.4045485 1.0473250
## [1] 0.2917270 0.1256131 1.4045485 1.0473250
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## [1] 0.2917270 0.1246131 1.4045485 1.0463250
## [1] 0.2983555 2.3509240 0.5143858 2.8821027
## [1] "out of bounds"
## [1] 0.2930527 0.5698753 1.2265159 1.4142806
## [1] 0.2919921 0.2136656 1.3689420 1.1207161
## [1] 0.2917800 0.1424236 1.3974272 1.0620033
## [1] 0.2917376 0.1281752 1.4031242 1.0502607
## [1] 0.2917291 0.1253255 1.4042636 1.0479122
## [1] 0.2917274 0.1247556 1.4044915 1.0474425
## [1] 0.2917271 0.1246416 1.4045371 1.0473485
## [1] 0.2917270 0.1246188 1.4045462 1.0473297
## [1] 0.291727 0.124616 1.404547 1.047327
## [1] 0.2927270 0.1246188 1.4045462 1.0473297
## [1] 0.2907270 0.1246188 1.4045462 1.0473297
## [1] 0.2917270 0.1256188 1.4045462 1.0473297
## [1] 0.2917270 0.1236188 1.4045462 1.0473297
## [1] 0.2917270 0.1246188 1.4055462 1.0473297
## [1] 0.2917270 0.1246188 1.4035462 1.0473297
## [1] 0.2917270 0.1246188 1.4045462 1.0483297
## [1] 0.2917270 0.1246188 1.4045462 1.0463297
## [1] 0.2917237 0.1246236 1.4045400 1.0473388
## [1] 0.2917254 0.1246212 1.4045431 1.0473343
## [1] 0.2927237 0.1246236 1.4045400 1.0473388
## [1] 0.2907237 0.1246236 1.4045400 1.0473388
## [1] 0.2917237 0.1256236 1.4045400 1.0473388
## [1] 0.2917237 0.1236236 1.4045400 1.0473388
## [1] 0.2917237 0.1246236 1.4055400 1.0473388
## [1] 0.2917237 0.1246236 1.4035400 1.0473388
## [1] 0.2917237 0.1246236 1.4045400 1.0483388
## [1] 0.2917237 0.1246236 1.4045400 1.0463388
## [1] 0.2917092 0.1246249 1.4045182 1.0473662
## [1] 0.2917165 0.1246243 1.4045291 1.0473525
## [1] 0.2927092 0.1246249 1.4045182 1.0473662
## [1] 0.2907092 0.1246249 1.4045182 1.0473662
## [1] 0.2917092 0.1256249 1.4045182 1.0473662
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## [1] 0.2917092 0.1246249 1.4035182 1.0473662
## [1] 0.2917092 0.1246249 1.4045182 1.0483662
## [1] 0.2917092 0.1246249 1.4045182 1.0463662
## [1] 0.2917029 0.1246119 1.4044886 1.0474066
## [1] 0.2917061 0.1246184 1.4045034 1.0473864
## [1] 0.2927029 0.1246119 1.4044886 1.0474066
## [1] 0.2907029 0.1246119 1.4044886 1.0474066
## [1] 0.2917029 0.1256119 1.4044886 1.0474066
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## [1] 0.2917029 0.1236119 1.4044886 1.0474066
## [1] 0.2917029 0.1246119 1.4054886 1.0474066
## [1] 0.2917029 0.1246119 1.4034886 1.0474066
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## [1] 0.2917029 0.1246119 1.4044886 1.0464066
## [1] 3.413436 1.738853 1.584915 2.534309
## [1] "out of bounds"
## [1] 0.9160495 0.4474600 1.4405739 1.3447871
## [1] 0.4165723 0.1891815 1.4117057 1.1068827
## [1] 0.3166768 0.1375258 1.4059320 1.0593018
## [1] 0.2966977 0.1271947 1.4047773 1.0497857
## [1] 0.2927019 0.1251284 1.4045463 1.0478824
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## [1] 0.2907109 0.1246160 1.4044891 1.0474104
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## [1] 0.2917109 0.1246160 1.4044891 1.0464104
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## [1] 0.2917161 0.1246149 1.4044886 1.0474133
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## [1] 0.2917212 0.1246139 1.4044881 1.0484162
## [1] 0.2917212 0.1246139 1.4044881 1.0464162
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## [1] 0.2927452 0.1245950 1.4044819 1.0474331
## [1] 0.2907452 0.1245950 1.4044819 1.0474331
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## [1] 0.2917452 0.1235950 1.4044819 1.0474331
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## [1] 0.2917452 0.1245950 1.4044819 1.0464331
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## [1] 0.2917528 0.1245853 1.4044736 1.0474476
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## [1] 0.2907604 0.1245757 1.4044652 1.0474621
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## [1] 0.2917604 0.1245757 1.4044652 1.0484621
## [1] 0.2917604 0.1245757 1.4044652 1.0464621
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## [1] "out of bounds"
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## [1] 0.2919333 0.2093930 1.3706043 1.1172711
## [1] 0.2917950 0.1415391 1.3976931 1.0614239
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## [1] 0.2917618 0.1252542 1.4041944 1.0480205
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## [1] 0.2907435 0.1245869 1.4044365 1.0475012
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## [1] 0.2917435 0.1235869 1.4044365 1.0475012
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## [1] 0.2917435 0.1245869 1.4034365 1.0475012
## [1] 0.2917435 0.1245869 1.4044365 1.0485012
## [1] 0.2917435 0.1245869 1.4044365 1.0465012
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## [1] 0.2917405 0.1245807 1.4044224 1.0475204
## [1] 0.2927375 0.1245746 1.4044084 1.0475395
## [1] 0.2907375 0.1245746 1.4044084 1.0475395
## [1] 0.2917375 0.1255746 1.4044084 1.0475395
## [1] 0.2917375 0.1235746 1.4044084 1.0475395
## [1] 0.2917375 0.1245746 1.4054084 1.0475395
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## [1] 0.2917375 0.1245746 1.4044084 1.0485395
## [1] 0.2917375 0.1245746 1.4044084 1.0465395
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## [1] "out of bounds"
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## [1] 0.4100864 0.1854844 1.4111897 1.1039747
## [1] 0.3154073 0.1367565 1.4057647 1.0588265

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## [1] 0.2917549 0.1255764 1.4044080 1.0475486
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## [1] 0.2917849 0.1245493 1.4043941 1.0475785
## [1] 0.2927922 0.1245401 1.4043862 1.0475923
## [1] 0.2907922 0.1245401 1.4043862 1.0475923
## [1] 0.2917922 0.1255401 1.4043862 1.0475923
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## [1] 0.2917922 0.1245401 1.4043862 1.0465923
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## [1] 0.2922488 0.5283499 1.2433825 1.3795770
## [1] 0.2918835 0.2053020 1.3721855 1.1139892
## [1] 0.2918104 0.1406925 1.3979460 1.0608717
## [1] 0.2917958 0.1277706 1.4030982 1.0502482
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## [1] 0.2917923 0.1246693 1.4043347 1.0476985
## [1] 0.2917922 0.1245659 1.4043759 1.0476135
## [1] 0.2917922 0.1245452 1.4043841 1.0475966

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## [1] 0.2907922 0.1245452 1.4043841 1.0475966
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## [1] 0.2917922 0.1235452 1.4043841 1.0475966
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## [1] 0.2907892 0.1245496 1.4043785 1.0476047
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## [1] 0.4039637 0.1820223 1.4107092 1.1012222
## [1] 0.3142090 0.1360357 1.4056076 1.0583771
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## [1] 0.2917776 0.1255428 1.4043326 1.0476693
## [1] 0.2917776 0.1235428 1.4043326 1.0476693

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## [1] 0.2917776 0.1245428 1.4053326 1.0476693
## [1] 0.2917776 0.1245428 1.4033326 1.0476693
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## [1] 0.2907869 0.1245408 1.4043318 1.0476745
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## [1] 0.2917869 0.1235408 1.4043318 1.0476745
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## [1] 0.2918086 0.1245237 1.4033261 1.0476899
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## [1] 0.2908069 0.1245164 1.4042851 1.0477515
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## [1] 0.2918016 0.1245054 1.4042599 1.0467860
## [1] 2.951212 1.481152 1.554273 2.318501
## [1] "out of bounds"
## [1] 0.8236836 0.3958346 1.4342626 1.3019289
## [1] 0.3981780 0.1787712 1.4102604 1.0986146
## [1] 0.3130769 0.1353586 1.4054600 1.0579517
## [1] 0.2960566 0.1266760 1.4044999 1.0498191
## [1] 0.2926526 0.1249395 1.4043079 1.0481926
## [1] 0.2919718 0.1245922 1.4042695 1.0478673
## [1] 0.2918356 0.1245227 1.4042618 1.0478023
## [1] 0.2918084 0.1245089 1.4042602 1.0477893
## [1] 0.2918050 0.1245071 1.4042601 1.0477876
## [1] 0.2928084 0.1245089 1.4042602 1.0477893
## [1] 0.2908084 0.1245089 1.4042602 1.0477893
## [1] 0.2918084 0.1255089 1.4042602 1.0477893
## [1] 0.2918084 0.1235089 1.4042602 1.0477893
## [1] 0.2918084 0.1245089 1.4052602 1.0477893
## [1] 0.2918084 0.1245089 1.4032602 1.0477893
## [1] 0.2918084 0.1245089 1.4042602 1.0487893
## [1] 0.2918084 0.1245089 1.4042602 1.0467893
## [1] 0.2918173 0.1245070 1.4042595 1.0477942
## [1] 0.2918128 0.1245079 1.4042598 1.0477917
## [1] 0.2928173 0.1245070 1.4042595 1.0477942
## [1] 0.2908173 0.1245070 1.4042595 1.0477942
## [1] 0.2918173 0.1255070 1.4042595 1.0477942
## [1] 0.2918173 0.1235070 1.4042595 1.0477942

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## [1] 0.2918173 0.1245070 1.4052595 1.0477942
## [1] 0.2918173 0.1245070 1.4032595 1.0477942
## [1] 0.2918173 0.1245070 1.4042595 1.0487942
## [1] 0.2918173 0.1245070 1.4042595 1.0467942
## [1] 0.2918379 0.1244907 1.4042541 1.0478089
## [1] 0.2918276 0.1244989 1.4042568 1.0478015
## [1] 0.2928379 0.1244907 1.4042541 1.0478089
## [1] 0.2908379 0.1244907 1.4042541 1.0478089
## [1] 0.2918379 0.1254907 1.4042541 1.0478089
## [1] 0.2918379 0.1234907 1.4042541 1.0478089
## [1] 0.2918379 0.1244907 1.4052541 1.0478089
## [1] 0.2918379 0.1244907 1.4032541 1.0478089
## [1] 0.2918379 0.1244907 1.4042541 1.0488089
## [1] 0.2918379 0.1244907 1.4042541 1.0468089
## [1] 0.2918510 0.1244741 1.4042397 1.0478338
## [1] 0.2918445 0.1244824 1.4042469 1.0478214
## [1] 0.2928510 0.1244741 1.4042397 1.0478338
## [1] 0.2908510 0.1244741 1.4042397 1.0478338
## [1] 0.2918510 0.1254741 1.4042397 1.0478338
## [1] 0.2918510 0.1234741 1.4042397 1.0478338
## [1] 0.2918510 0.1244741 1.4052397 1.0478338
## [1] 0.2918510 0.1244741 1.4032397 1.0478338
## [1] 0.2918510 0.1244741 1.4042397 1.0488338
## [1] 0.2918510 0.1244741 1.4042397 1.0468338
## [1] 0.2906174 1.9542371 0.6761810 2.5492839
## [1] "out of bounds"
## [1] 0.2916043 0.4904267 1.2586280 1.3481239
## [1] 0.2918016 0.1976646 1.3751174 1.1078918
## [1] 0.2918411 0.1391122 1.3984153 1.0598454
## [1] 0.2918490 0.1274017 1.4030748 1.0502362
## [1] 0.2918506 0.1250597 1.4040068 1.0483143
## [1] 0.2918509 0.1245912 1.4041931 1.0479299
## [1] 0.2918510 0.1244975 1.4042304 1.0478531
## [1] 0.2918510 0.1244788 1.4042379 1.0478377
## [1] 0.2918510 0.1244765 1.4042388 1.0478358
## [1] 0.2928510 0.1244788 1.4042379 1.0478377
## [1] 0.2908510 0.1244788 1.4042379 1.0478377
## [1] 0.2918510 0.1254788 1.4042379 1.0478377
## [1] 0.2918510 0.1234788 1.4042379 1.0478377
## [1] 0.2918510 0.1244788 1.4052379 1.0478377
## [1] 0.2918510 0.1244788 1.4032379 1.0478377
## [1] 0.2918510 0.1244788 1.4042379 1.0488377
## [1] 0.2918510 0.1244788 1.4042379 1.0468377
## [1] 0.2918483 0.1244828 1.4042328 1.0478451
## [1] 0.2918496 0.1244808 1.4042353 1.0478414
## [1] 0.2928483 0.1244828 1.4042328 1.0478451
## [1] 0.2908483 0.1244828 1.4042328 1.0478451
## [1] 0.2918483 0.1254828 1.4042328 1.0478451
## [1] 0.2918483 0.1234828 1.4042328 1.0478451
## [1] 0.2918483 0.1244828 1.4052328 1.0478451
## [1] 0.2918483 0.1244828 1.4032328 1.0478451
## [1] 0.2918483 0.1244828 1.4042328 1.0488451
## [1] 0.2918483 0.1244828 1.4042328 1.0468451
## [1] 0.2918363 0.1244838 1.4042150 1.0478675

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## [1] 0.2918423 0.1244833 1.4042239 1.0478563
## [1] 0.2928363 0.1244838 1.4042150 1.0478675
## [1] 0.2908363 0.1244838 1.4042150 1.0478675
## [1] 0.2918363 0.1254838 1.4042150 1.0478675
## [1] 0.2918363 0.1234838 1.4042150 1.0478675
## [1] 0.2918363 0.1244838 1.4052150 1.0478675
## [1] 0.2918363 0.1244838 1.4032150 1.0478675
## [1] 0.2918363 0.1244838 1.4042150 1.0488675
## [1] 0.2918363 0.1244838 1.4042150 1.0468675
## [1] 0.2918312 0.1244733 1.4041911 1.0479002
## [1] 0.2918338 0.1244786 1.4042030 1.0478838
## [1] 0.2928312 0.1244733 1.4041911 1.0479002
## [1] 0.2908312 0.1244733 1.4041911 1.0479002
## [1] 0.2918312 0.1254733 1.4041911 1.0479002
## [1] 0.2918312 0.1234733 1.4041911 1.0479002
## [1] 0.2918312 0.1244733 1.4051911 1.0479002
## [1] 0.2918312 0.1244733 1.4031911 1.0479002
## [1] 0.2918312 0.1244733 1.4041911 1.0489002
## [1] 0.2918312 0.1244733 1.4041911 1.0469002
## [1] 2.813687 1.405469 1.545412 2.253973
## [1] "out of bounds"
## [1] 0.7962024 0.3806725 1.4324352 1.2891148
## [1] 0.3927055 0.1757132 1.4098399 1.0961431
## [1] 0.3120061 0.1347213 1.4053209 1.0575488
## [1] 0.2958662 0.1265229 1.4044170 1.0498299
## [1] 0.2926382 0.1248833 1.4042363 1.0482862
## [1] 0.2919926 0.1245553 1.4042001 1.0479774
## [1] 0.2918635 0.1244897 1.4041929 1.0479157
## [1] 0.2918377 0.1244766 1.4041915 1.0479033
## [1] 0.2918345 0.1244750 1.4041913 1.0479018
## [1] 0.2928377 0.1244766 1.4041915 1.0479033
## [1] 0.2908377 0.1244766 1.4041915 1.0479033
## [1] 0.2918377 0.1254766 1.4041915 1.0479033
## [1] 0.2918377 0.1234766 1.4041915 1.0479033
## [1] 0.2918377 0.1244766 1.4051915 1.0479033
## [1] 0.2918377 0.1244766 1.4031915 1.0479033
## [1] 0.2918377 0.1244766 1.4041915 1.0489033
## [1] 0.2918377 0.1244766 1.4041915 1.0469033
## [1] 0.2918461 0.1244749 1.4041907 1.0479080
## [1] 0.2918419 0.1244758 1.4041911 1.0479057
## [1] 0.2928461 0.1244749 1.4041907 1.0479080
## [1] 0.2908461 0.1244749 1.4041907 1.0479080
## [1] 0.2918461 0.1254749 1.4041907 1.0479080
## [1] 0.2918461 0.1234749 1.4041907 1.0479080
## [1] 0.2918461 0.1244749 1.4051907 1.0479080
## [1] 0.2918461 0.1244749 1.4031907 1.0479080
## [1] 0.2918461 0.1244749 1.4041907 1.0489080
## [1] 0.2918461 0.1244749 1.4041907 1.0469080
## [1] 0.2918658 0.1244594 1.4041856 1.0479220
## [1] 0.2918560 0.1244671 1.4041881 1.0479150
## [1] 0.2928658 0.1244594 1.4041856 1.0479220
## [1] 0.2908658 0.1244594 1.4041856 1.0479220
## [1] 0.2918658 0.1254594 1.4041856 1.0479220
## [1] 0.2918658 0.1234594 1.4041856 1.0479220

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## [1] 0.2918658 0.1244594 1.4051856 1.0479220
## [1] 0.2918658 0.1244594 1.4031856 1.0479220
## [1] 0.2918658 0.1244594 1.4041856 1.0489220
## [1] 0.2918658 0.1244594 1.4041856 1.0469220
## [1] 0.2918782 0.1244436 1.4041719 1.0479458
## [1] 0.2918720 0.1244515 1.4041787 1.0479339
## [1] 0.2928782 0.1244436 1.4041719 1.0479458
## [1] 0.2908782 0.1244436 1.4041719 1.0479458
## [1] 0.2918782 0.1254436 1.4041719 1.0479458
## [1] 0.2918782 0.1234436 1.4041719 1.0479458
## [1] 0.2918782 0.1244436 1.4051719 1.0479458
## [1] 0.2918782 0.1244436 1.4031719 1.0479458
## [1] 0.2918782 0.1244436 1.4041719 1.0489458
## [1] 0.2918782 0.1244436 1.4041719 1.0469458
## [1] 0.2891972 1.8662482 0.7117777 2.4759202
## [1] "out of bounds"
## [1] 0.2913420 0.4728045 1.2656931 1.3335407
## [1] 0.2917710 0.1941158 1.3764762 1.1050647
## [1] 0.2918568 0.1383780 1.3986328 1.0593696
## [1] 0.2918739 0.1272305 1.4030641 1.0502305
## [1] 0.2918774 0.1250010 1.4039504 1.0484027
## [1] 0.2918780 0.1245551 1.4041276 1.0480372
## [1] 0.2918782 0.1244659 1.4041631 1.0479640
## [1] 0.2918782 0.1244480 1.4041702 1.0479494
## [1] 0.2918782 0.1244458 1.4041710 1.0479476
## [1] 0.2928782 0.1244480 1.4041702 1.0479494
## [1] 0.2908782 0.1244480 1.4041702 1.0479494
## [1] 0.2918782 0.1254480 1.4041702 1.0479494
## [1] 0.2918782 0.1234480 1.4041702 1.0479494
## [1] 0.2918782 0.1244480 1.4051702 1.0479494
## [1] 0.2918782 0.1244480 1.4031702 1.0479494
## [1] 0.2918782 0.1244480 1.4041702 1.0489494
## [1] 0.2918782 0.1244480 1.4041702 1.0469494
## [1] 0.2918756 0.1244518 1.4041654 1.0479565
## [1] 0.2918769 0.1244499 1.4041678 1.0479529
## [1] 0.2928756 0.1244518 1.4041654 1.0479565
## [1] 0.2908756 0.1244518 1.4041654 1.0479565
## [1] 0.2918756 0.1254518 1.4041654 1.0479565
## [1] 0.2918756 0.1234518 1.4041654 1.0479565
## [1] 0.2918756 0.1244518 1.4051654 1.0479565
## [1] 0.2918756 0.1244518 1.4031654 1.0479565
## [1] 0.2918756 0.1244518 1.4041654 1.0489565
## [1] 0.2918756 0.1244518 1.4041654 1.0469565
## [1] 0.2918642 0.1244528 1.4041484 1.0479777
## [1] 0.2918699 0.1244523 1.4041569 1.0479671
## [1] 0.2928642 0.1244528 1.4041484 1.0479777
## [1] 0.2908642 0.1244528 1.4041484 1.0479777
## [1] 0.2918642 0.1254528 1.4041484 1.0479777
## [1] 0.2918642 0.1234528 1.4041484 1.0479777
## [1] 0.2918642 0.1244528 1.4051484 1.0479777
## [1] 0.2918642 0.1244528 1.4031484 1.0479777
## [1] 0.2918642 0.1244528 1.4041484 1.0489777
## [1] 0.2918642 0.1244528 1.4041484 1.0469777
## [1] 0.2918594 0.1244429 1.4041257 1.0480088

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## [1] 0.2918618 0.1244478 1.4041371 1.0479933
## [1] 0.2928594 0.1244429 1.4041257 1.0480088
## [1] 0.2908594 0.1244429 1.4041257 1.0480088
## [1] 0.2918594 0.1254429 1.4041257 1.0480088
## [1] 0.2918594 0.1234429 1.4041257 1.0480088
## [1] 0.2918594 0.1244429 1.4051257 1.0480088
## [1] 0.2918594 0.1244429 1.4031257 1.0480088
## [1] 0.2918594 0.1244429 1.4041257 1.0490088
## [1] 0.2918594 0.1244429 1.4041257 1.0470088
## [1] 2.683511 1.334230 1.537105 2.192794
## [1] "out of bounds"
## [1] 0.7701898 0.3664004 1.4307216 1.2769659
## [1] 0.3875255 0.1728344 1.4094449 1.0938002
## [1] 0.3109926 0.1341212 1.4051896 1.0571671
## [1] 0.2956861 0.1263785 1.4043385 1.0498405
## [1] 0.2926248 0.1248300 1.4041683 1.0483751
## [1] 0.2920125 0.1245203 1.4041343 1.0480821
## [1] 0.2918900 0.1244584 1.4041274 1.0480235
## [1] 0.2918656 0.1244460 1.4041261 1.0480117
## [1] 0.2918625 0.1244444 1.4041259 1.0480103
## [1] 0.2928656 0.1244460 1.4041261 1.0480117
## [1] 0.2908656 0.1244460 1.4041261 1.0480117
## [1] 0.2918656 0.1254460 1.4041261 1.0480117
## [1] 0.2918656 0.1234460 1.4041261 1.0480117
## [1] 0.2918656 0.1244460 1.4051261 1.0480117
## [1] 0.2918656 0.1244460 1.4031261 1.0480117
## [1] 0.2918656 0.1244460 1.4041261 1.0490117
## [1] 0.2918656 0.1244460 1.4041261 1.0470117
## [1] 0.2918736 0.1244443 1.4041254 1.0480162
## [1] 0.2918696 0.1244452 1.4041257 1.0480140
## [1] 0.2928736 0.1244443 1.4041254 1.0480162
## [1] 0.2908736 0.1244443 1.4041254 1.0480162
## [1] 0.2918736 0.1254443 1.4041254 1.0480162
## [1] 0.2918736 0.1234443 1.4041254 1.0480162
## [1] 0.2918736 0.1244443 1.4051254 1.0480162
## [1] 0.2918736 0.1244443 1.4031254 1.0480162
## [1] 0.2918736 0.1244443 1.4041254 1.0490162
## [1] 0.2918736 0.1244443 1.4041254 1.0470162
## [1] 0.2918923 0.1244296 1.4041205 1.0480295
## [1] 0.2918829 0.1244370 1.4041229 1.0480229
## [1] 0.2928923 0.1244296 1.4041205 1.0480295
## [1] 0.2908923 0.1244296 1.4041205 1.0480295
## [1] 0.2918923 0.1254296 1.4041205 1.0480295
## [1] 0.2918923 0.1234296 1.4041205 1.0480295
## [1] 0.2918923 0.1244296 1.4051205 1.0480295
## [1] 0.2918923 0.1244296 1.4031205 1.0480295
## [1] 0.2918923 0.1244296 1.4041205 1.0490295
## [1] 0.2918923 0.1244296 1.4041205 1.0470295
## [1] 0.2919041 0.1244146 1.4041075 1.0480522
## [1] 0.2918982 0.1244221 1.4041140 1.0480408
## [1] 0.2929041 0.1244146 1.4041075 1.0480522
## [1] 0.2909041 0.1244146 1.4041075 1.0480522
## [1] 0.2919041 0.1254146 1.4041075 1.0480522
## [1] 0.2919041 0.1234146 1.4041075 1.0480522

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## [1] 0.2919041 0.1244146 1.4051075 1.0480522
## [1] 0.2919041 0.1244146 1.4031075 1.0480522
## [1] 0.2919041 0.1244146 1.4041075 1.0490522
## [1] 0.2919041 0.1244146 1.4041075 1.0470522
## [1] 0.2880000 1.7825519 0.7456351 2.4061686
## [1] "out of bounds"
## [1] 0.2911233 0.4560420 1.2724130 1.3196755
## [1] 0.2917479 0.1907400 1.3777686 1.1023768
## [1] 0.2918729 0.1376797 1.3988397 1.0589171
## [1] 0.2918979 0.1270676 1.4030540 1.0502251
## [1] 0.2919029 0.1249452 1.4038968 1.0484868
## [1] 0.2919038 0.1245207 1.4040654 1.0481391
## [1] 0.2919040 0.1244358 1.4040991 1.0480695
## [1] 0.2919041 0.1244188 1.4041058 1.0480556
## [1] 0.2919041 0.1244167 1.4041067 1.0480539
## [1] 0.2929041 0.1244188 1.4041058 1.0480556
## [1] 0.2909041 0.1244188 1.4041058 1.0480556
## [1] 0.2919041 0.1254188 1.4041058 1.0480556
## [1] 0.2919041 0.1234188 1.4041058 1.0480556
## [1] 0.2919041 0.1244188 1.4051058 1.0480556
## [1] 0.2919041 0.1244188 1.4031058 1.0480556
## [1] 0.2919041 0.1244188 1.4041058 1.0490556
## [1] 0.2919041 0.1244188 1.4041058 1.0470556
## [1] 0.2919016 0.1244224 1.4041013 1.0480623
## [1] 0.2919029 0.1244206 1.4041035 1.0480590
## [1] 0.2929016 0.1244224 1.4041013 1.0480623
## [1] 0.2909016 0.1244224 1.4041013 1.0480623
## [1] 0.2919016 0.1254224 1.4041013 1.0480623
## [1] 0.2919016 0.1234224 1.4041013 1.0480623
## [1] 0.2919016 0.1244224 1.4051013 1.0480623
## [1] 0.2919016 0.1244224 1.4031013 1.0480623
## [1] 0.2919016 0.1244224 1.4041013 1.0490623
## [1] 0.2919016 0.1244224 1.4041013 1.0470623
## [1] 0.2918907 0.1244233 1.4040852 1.0480825
## [1] 0.2918962 0.1244228 1.4040932 1.0480724
## [1] 0.2928907 0.1244233 1.4040852 1.0480825
## [1] 0.2908907 0.1244233 1.4040852 1.0480825
## [1] 0.2918907 0.1254233 1.4040852 1.0480825
## [1] 0.2918907 0.1234233 1.4040852 1.0480825
## [1] 0.2918907 0.1244233 1.4050852 1.0480825
## [1] 0.2918907 0.1244233 1.4030852 1.0480825
## [1] 0.2918907 0.1244233 1.4040852 1.0490825
## [1] 0.2918907 0.1244233 1.4040852 1.0470825
## [1] 0.2918862 0.1244139 1.4040637 1.0481120
## [1] 0.2918885 0.1244186 1.4040744 1.0480973
## [1] 0.2928862 0.1244139 1.4040637 1.0481120
## [1] 0.2908862 0.1244139 1.4040637 1.0481120
## [1] 0.2918862 0.1254139 1.4040637 1.0481120
## [1] 0.2918862 0.1234139 1.4040637 1.0481120
## [1] 0.2918862 0.1244139 1.4050637 1.0481120
## [1] 0.2918862 0.1244139 1.4030637 1.0481120
## [1] 0.2918862 0.1244139 1.4040637 1.0491120
## [1] 0.2918862 0.1244139 1.4040637 1.0471120
## [1] 2.560239 1.267153 1.529306 2.134785

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## [1] "out of bounds"
## [1] 0.7455567 0.3529617 1.4291120 1.2654465
## [1] 0.3826203 0.1701235 1.4090733 1.0915789
## [1] 0.3100330 0.1335558 1.4050656 1.0568054
## [1] 0.2955156 0.1262423 1.4042640 1.0498507
## [1] 0.2926121 0.1247796 1.4041037 1.0484598
## [1] 0.2920314 0.1244871 1.4040717 1.0481816
## [1] 0.2919153 0.1244286 1.4040653 1.0481260
## [1] 0.2918920 0.1244169 1.4040640 1.0481148
## [1] 0.2918891 0.1244154 1.4040638 1.0481134
## [1] 0.2928920 0.1244169 1.4040640 1.0481148
## [1] 0.2908920 0.1244169 1.4040640 1.0481148
## [1] 0.2918920 0.1254169 1.4040640 1.0481148
## [1] 0.2918920 0.1234169 1.4040640 1.0481148
## [1] 0.2918920 0.1244169 1.4050640 1.0481148
## [1] 0.2918920 0.1244169 1.4030640 1.0481148
## [1] 0.2918920 0.1244169 1.4040640 1.0491148
## [1] 0.2918920 0.1244169 1.4040640 1.0471148
## [1] 0.2918996 0.1244153 1.4040633 1.0481191
## [1] 0.2918958 0.1244161 1.4040636 1.0481170
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## [1] 0.2908996 0.1244153 1.4040633 1.0481191
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## [1] 0.2917323 0.1875298 1.3789982 1.0998214
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## [1] 0.2910154 0.1242896 1.4038304 1.0485105

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[1] 0.2933267 0.1239378 1.4030494 1.0498074
[1] 0.2913267 0.1239378 1.4030494 1.0498074
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[1] 0.2923267 0.1239378 1.4030494 1.0508074
[1] 0.2923267 0.1239378 1.4030494 1.0488074
[1] 0.5162136 0.4618319 1.3786804 1.2606810
[1] 0.3371041 0.1915166 1.3981756 1.0919821
[1] 0.3012822 0.1374535 1.4020746 1.0582424
[1] 0.2941178 0.1266409 1.4028544 1.0514944
[1] 0.2926849 0.1244784 1.4030104 1.0501448
[1] 0.2923983 0.1240459 1.4030416 1.0498749
[1] 0.2923410 0.1239594 1.4030478 1.0498209
[1] 0.2923296 0.1239421 1.4030490 1.0498101
[1] 0.2923273 0.1239386 1.4030493 1.0498080
[1] 0.2923268 0.1239380 1.4030493 1.0498075

[illegible]

[illegible]

[illegible]

```
## [1] 0.2923296 0.1239421 1.4030490 1.0498101
## [1] 0.2923273 0.1239386 1.4030493 1.0498080
## [1] 0.2923268 0.1239380 1.4030493 1.0498075
## [1] 0.2923267 0.1239378 1.4030494 1.0498074
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## [1] 0.2923267 0.1239378 1.4030494 1.0498074
## [1] 0.2923267 0.1239378 1.4030494 1.0498074
```

```
print(result$convergence) # 0 if it has converged
```

```
## [1] 0
```

```
print(result$par)
```

```
## [1] 0.2923267 0.1239378 1.4030494 1.0498074
```

```
rmse <- sqrt((result$par - true_param)^2)
df_rmse <- data.frame(estim = result$par, rmse = rmse)
rownames(df_rmse) <- c("beta1", "beta2", "alpha1", "alpha2")
print(t(df_rmse))
```

```
##          beta1      beta2      alpha1      alpha2
## estim 0.2923267 0.1239378 1.4030493 1.0498074
## rmse  0.1076733 0.0760622 0.0969506 0.0498074
```

Ajout de l'advection dans la simulation

```
sim_BR <- function(beta1, beta2, alpha1, alpha2, x, y, z, n.BR) {
  ## Setup
  RandomFields::RFoptions(spConform=FALSE)
  lx <- length(sx <- seq_along(x))
  ly <- length(sy <- seq_along(y))
  lz <- length(sz <- seq_along(z))
  ## Model-Variogram BuhlCklu
  modelBuhlCklu <- RandomFields::RMfbm(alpha=alpha1, var=beta1, proj=1) +
    RandomFields::RMfbm(alpha=alpha1, var=beta1, proj=2) +
    RandomFields::RMfbm(alpha=alpha2, var=beta2, proj=3)

  ## Construct grid
  Nxy <- lx * ly
  N <- Nxy * lz
```

```

grid <- matrix(0, nrow=N, ncol=3) # (N,3)-matrix

for (i in sx)
  for (j in seq_len(ly*lz))
    grid[i+(j-1)*ly, 1] <- i

for (i in sy)
  for (j in sx)
    for(k in sz)
      grid[j+lx*(i-1)+(k-1)*Nxy, 2] <- i

for (i in sz)
  for (j in seq_len(Nxy))
    grid[j+Nxy*(i-1), 3] <- i

## Construct shifted variogram
Varm1 <- vapply(seq_len(N), function(n)
  RandomFields::RFvariogram(modelBuhlCklu,
    x=sx-grid[n,1],
    y=sy-grid[n,2],
    z=sz-grid[n,3]),
  array(NA_real_, dim=c(lx, ly, lz))) ## => (lx, ly, lz, N)-array

## Main
Z <- array(, dim=c(lx, ly, lz, n.BR)) # 4d array
E <- matrix(rexp(n.BR * N), nrow=n.BR, ncol=N)
for (i in seq_len(n.BR)) { ## n=1
  V <- 1/E[i,1]
  W <- RandomFields::RFsimulate(modelBuhlCklu, x, y, z, n=1)
  Y <- exp(W - W[1] - Varm1[,,,1])
  Z[,,,i] <- V * Y
  ## n in {2,...,N}
  for(n in 2:N) {
    Exp <- E[i,n]
    V <- 1/Exp
    while(V > Z[N*(i-1)+n]) {
      W <- RandomFields::RFsimulate(modelBuhlCklu, x, y, z)
      Y <- exp(W - W[n] - Varm1[,,,n])
      if(all(V*Y[seq_len(n-1)] < Z[(N*(i-1)+1):(N*(i-1)+(n-1))]))
        Z[,,,i] <- pmax(V*Y, Z[,,,i])
      Exp <- Exp + rexp(1)
      V <- 1/Exp
    }
  }
}
## Return
Z
}

```