

A Minimal Book Example

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Contents

Chapter 1

About

This is an additional lecture notes for **Survival Analysis** course.

Chapter 2

Bias assessment

Available at <https://rpubs.com/Hyojun/bias>

2.1 Bias due to omitted confounders

$$y_i = \beta_0 + \beta_1 x_i + \beta_2 x_2 + \dots + \epsilon_i; \text{ for } i = 1, \dots, n$$

where the errors $\epsilon_i \sim N(0, \sigma^2)$ with independent and identically distributed (*i.i.d.*)

Let's assume the following association is true (i.e., gold standard) without any selection bias, measurement bias, and other unmeasured confoundings.

```
N <- 100000
C <- rnorm(N)
X <- .5 * C + rnorm(N)
Y <- .3 * C + .4 * X + rnorm(N)
```

2.1.1 Gold standard

With the correct model specification (i.e., C as a confounder), we get an unbiased estimate of X on Y .

```
# Gold standard
glm.unbiased <- glm(Y~X + C, family="gaussian")
summary(glm.unbiased)

##
## Call:
## glm(formula = Y ~ X + C, family = "gaussian")
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -4.1444  -0.6710   0.0026   0.6721   4.1012
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.001390   0.003162   0.44    0.66
## X            0.402099   0.003153  127.54 <2e-16 ***
## C            0.301383   0.003531   85.36 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9996509)
##
##      Null deviance: 141481  on 99999  degrees of freedom
## Residual deviance:  99962  on 99997  degrees of freedom
```



```
## AIC: 283758
##
## Number of Fisher Scoring iterations: 2
```

2.1.2 Misspecified model: a confounder, C , was omitted from the model

By omitting C , the estimate of X was biased either “away from” or “towards to” the null

```
# C was omitted
glm.unbiased <- glm(Y~X, family="gaussian")
summary(glm.unbiased)

##
## Call:
## glm(formula = Y ~ X, family = "gaussian")
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -4.5814  -0.6931  -0.0004   0.6932   4.6729
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.0007764  0.0032749   0.237   0.813
## X           0.5221527  0.0029225 178.665 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 1.072482)
##
##      Null deviance: 141481  on 99999  degrees of freedom
## Residual deviance: 107246  on 99998  degrees of freedom
## AIC: 290789
##
## Number of Fisher Scoring iterations: 2
```

2.1.3 Bias “away from” or “towards to” the null?

```
N <- 100000
C <- rnorm(N)
X <- -.5 * C + rnorm(N)
Y <- -.3 * C + .4 * X + rnorm(N)
```

```
# C was omitted
glm.unbiased <- glm(Y~X + C, family="gaussian")
summary(glm.unbiased)
```

```
##
## Call:
## glm(formula = Y ~ X + C, family = "gaussian")
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -4.3471  -0.6764  -0.0006   0.6750   4.2738
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.003682   0.003165  -1.163   0.245
## X             0.400081   0.003167 126.314 <2e-16 ***
## C            -0.295039   0.003546  -83.196 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 1.001776)
##
##      Null deviance: 140758  on 99999  degrees of freedom
## Residual deviance: 100175  on 99997  degrees of freedom
## AIC: 283970
##
## Number of Fisher Scoring iterations: 2
```

```
glm.unbiased <- glm(Y~X, family="gaussian")
summary(glm.unbiased)
```

```
##
## Call:
## glm(formula = Y ~ X, family = "gaussian")
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -4.6787  -0.6967  -0.0016   0.7009   4.4130
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.004269   0.003273  -1.304   0.192
## X             0.518537   0.002926 177.245 <2e-16 ***
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 1.071106)
##
##      Null deviance: 140758  on 99999  degrees of freedom
## Residual deviance: 107108  on 99998  degrees of freedom
## AIC: 290661
##
## Number of Fisher Scoring iterations: 2
```

2.1.4 A C is not a confounder on X and Y

```
N <- 100000
C <- rnorm(N)
X <- rnorm(N)
Y <- .4 * X + rnorm(N)
```

2.1.5 Correct model specification: Without C

```
glm.unbiased <- glm(Y~X, family="gaussian")
summary(glm.unbiased)

##
## Call:
## glm(formula = Y ~ X, family = "gaussian")
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -4.1814  -0.6700   0.0015   0.6673   4.1649
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.0003794  0.0031493   0.12   0.904
## X           0.3975242  0.0031534  126.06 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9917661)
##
##      Null deviance: 114936  on 99999  degrees of freedom
## Residual deviance:  99175  on 99998  degrees of freedom
```

```
## AIC: 282965
##
## Number of Fisher Scoring iterations: 2
```

2.1.6 Misspecified model with C

```
glm.unbiased <- glm(Y~X + C, family="gaussian")
summary(glm.unbiased)

##
## Call:
## glm(formula = Y ~ X + C, family = "gaussian")
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -4.1828  -0.6697   0.0013   0.6670   4.1640
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.0003819  0.0031493   0.121   0.903
## X           0.3975154  0.0031534 126.061 <2e-16 ***
## C           0.0034861  0.0031374   1.111   0.267
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9917637)
##
##      Null deviance: 114936  on 99999  degrees of freedom
## Residual deviance:  99173  on 99997  degrees of freedom
## AIC: 282966
##
## Number of Fisher Scoring iterations: 2
```

2.1.7 A C is a collider on X and Y

```
N <- 100000
X <- rnorm(N)
Y <- .7 * X + rnorm(N)
C <- 1.2 * X + .6 * Y + rnorm(N)
```

2.1.8 Correct model specification: Without C

```
glm.unbiased <- glm(Y~X, family="gaussian")
summary(glm.unbiased)
```

```
##
## Call:
## glm(formula = Y ~ X, family = "gaussian")
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -4.0810  -0.6728  -0.0003   0.6691   4.0286
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.002236   0.003147    0.71   0.477
## X            0.703113   0.003147  223.39 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.990496)
##
##      Null deviance: 148477  on 99999  degrees of freedom
## Residual deviance:  99048  on 99998  degrees of freedom
## AIC: 282837
##
## Number of Fisher Scoring iterations: 2
```

2.1.9 Misspecified model with C

This is one of examples of selection bias. For example, let's say, X is Education, Y is income, and C is social welfare program. People at lower education (i.e., high risk group in terms of exposure) and lower income (i.e., higher risk group in terms of outcome) are more likely to register social welfare program. If survey was conducted based on the registered social welfare program, the “estimated” association from this “disproportionally selected” respondents are likely biased.

```
glm.unbiased <- glm(Y~X + C, family="gaussian")
summary(glm.unbiased)
```

```
##
## Call:
## glm(formula = Y ~ X + C, family = "gaussian")
```

```
##
## Deviance Residuals:
##      Min        1Q      Median        3Q      Max
## -3.7841  -0.5751  -0.0034   0.5708   3.5728
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.003823   0.002699   1.416   0.1567
## X            -0.009082   0.004626  -1.963   0.0496 *
## C             0.438539   0.002313  189.590 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.7286048)
##
##      Null deviance: 148477  on 99999  degrees of freedom
## Residual deviance:  72858  on 99997  degrees of freedom
## AIC: 252130
##
## Number of Fisher Scoring iterations: 2
```

2.2 Overadjustment bias

Please note that this is not a comprehensive example; only reflect one aspect of potential overadjustment bias.

Let's assume a model with M as a mediator.

```
N <- 100000
X <- rnorm(N)
M <- .5 * X + rnorm(N)
Y <- .3 * X + .4 * M + rnorm(N)
```

2.3 Total effect

```
glm.unbiased <- glm(Y~X, family="gaussian")
summary(glm.unbiased)
```

```
##
## Call:
## glm(formula = Y ~ X, family = "gaussian")
```

```
##
## Deviance Residuals:
##      Min        1Q      Median        3Q        Max
## -4.6871  -0.7202   0.0002   0.7257   4.4119
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.001238   0.003406  -0.363   0.716
## X            0.497781   0.003403 146.280 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 1.160209)
##
##      Null deviance: 140845  on 99999  degrees of freedom
## Residual deviance: 116019  on 99998  degrees of freedom
## AIC: 298652
##
## Number of Fisher Scoring iterations: 2
```

2.4 Overadjustment

```
glm.unbiased <- glm(Y~X + M, family="gaussian")
summary(glm.unbiased)
```

```
##
## Call:
## glm(formula = Y ~ X + M, family = "gaussian")
##
## Deviance Residuals:
##      Min        1Q      Median        3Q        Max
## -4.4751  -0.6736   0.0003   0.6769   4.2799
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.001558   0.003164  -0.492   0.622
## X            0.298971   0.003533  84.619 <2e-16 ***
## M            0.398482   0.003163 125.997 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 1.001263)
##
```

```
##      Null deviance: 140845  on 99999  degrees of freedom
## Residual deviance: 100123  on 99997  degrees of freedom
## AIC: 283919
##
## Number of Fisher Scoring iterations: 2
```

2.5 Logistic models

2.5.1 Sex as a Confounder, C

```
MYM <- data.frame(Sex = "Male",
                  Smoking = "Yes",
                  Cancer = 1,
                  freq = 5
                  )

MYN <- data.frame(Sex = "Male",
                  Smoking = "Yes",
                  Cancer = 0,
                  freq = 8
                  )

MNY <- data.frame(Sex = "Male",
                  Smoking = "No",
                  Cancer = 1,
                  freq = 45
                  )

MNN <- data.frame(Sex = "Male",
                  Smoking = "No",
                  Cancer = 0,
                  freq = 72
                  )

FYM <- data.frame(Sex = "Female",
                  Smoking = "Yes",
                  Cancer = 1,
                  freq = 25
                  )

FYN <- data.frame(Sex = "Female",
                  Smoking = "Yes",
```



```

        Cancer = 0,
        freq = 10
    )

FNY <- data.frame(Sex = "Female",
                  Smoking = "No",
                  Cancer = 1,
                  freq = 25
    )

FNN <- data.frame(Sex = "Female",
                  Smoking = "No",
                  Cancer = 0,
                  freq = 10
    )

Ex_confounder <- rbind(MYY, MYN, MNY, MNN, FYY, FYN, FNY, FNN)

```

Convert Freq table to raw data

```

library(tidyr)
raw_confounder <- Ex_confounder %>%
  uncount(freq)

```

```

glm.unbiased <- glm(Cancer ~ Smoking , family=binomial(link = "logit"), data=raw_confounder)
summary(glm.unbiased)

```

```

##
## Call:
## glm(formula = Cancer ~ Smoking, family = binomial(link = "logit"),
##      data = raw_confounder)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -1.40059  -1.11100  -0.07073   1.24530   1.24530
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)  -0.1582     0.1627  -0.972   0.3309
## SmokingYes    0.6690     0.3397   1.970   0.0489 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)

```

```
##
##      Null deviance: 277.26  on 199  degrees of freedom
## Residual deviance: 273.28  on 198  degrees of freedom
## AIC: 277.28
##
## Number of Fisher Scoring iterations: 4
```

- Full model:

```
glm_logit <- glm(Cancer ~ Smoking + Sex , family=binomial(link = "logit"), data=raw_confounder)
glm_logit
```

```
##
## Call:  glm(formula = Cancer ~ Smoking + Sex, family = binomial(link = "logit"),
##      data = raw_confounder)
##
## Coefficients:
## (Intercept)  SmokingYes      SexMale
##  9.163e-01    4.266e-15   -1.386e+00
##
## Degrees of Freedom: 199 Total (i.e. Null);  197 Residual
## Null Deviance:      277.3
## Residual Deviance: 257    AIC: 263
```

- Stratified models

```
## For males
raw_confounder_M <- raw_confounder[ which(raw_confounder$Sex=='Male'), ]
glm_logit_m <- glm(Cancer ~ Smoking , family=binomial(link = "logit"), data=raw_confounder_M)
glm_logit_m
```

```
##
## Call:  glm(formula = Cancer ~ Smoking, family = binomial(link = "logit"),
##      data = raw_confounder_M)
##
## Coefficients:
## (Intercept)  SmokingYes
## -4.700e-01    6.672e-16
##
## Degrees of Freedom: 129 Total (i.e. Null);  128 Residual
## Null Deviance:      173.2
## Residual Deviance: 173.2    AIC: 177.2
```

```
# For females
raw_confounder_F <- raw_confounder[ which(raw_confounder$Sex=='Female'), ]
glm_logit_f <- glm(Cancer ~ Smoking , family=binomial(link = "logit"), data=raw_confounder_F)
glm_logit_f

##
## Call:  glm(formula = Cancer ~ Smoking, family = binomial(link = "logit"),
##        data = raw_confounder_F)
##
## Coefficients:
## (Intercept)  SmokingYes
##  9.163e-01    9.400e-16
##
## Degrees of Freedom: 69 Total (i.e. Null);  68 Residual
## Null Deviance:      83.76
## Residual Deviance: 83.76    AIC: 87.76
```

2.5.2 Sex as a Moderator, M

```
MYM <- data.frame(Sex = "Male",
                  Smoking = "Yes",
                  Cancer = 1,
                  freq = 5
                  )

MYN <- data.frame(Sex = "Male",
                  Smoking = "Yes",
                  Cancer = 0,
                  freq = 4
                  )

MNY <- data.frame(Sex = "Male",
                  Smoking = "No",
                  Cancer = 1,
                  freq = 45
                  )

MNN <- data.frame(Sex = "Male",
                  Smoking = "No",
                  Cancer = 0,
                  freq = 68
                  )
```

```

FYF <- data.frame(Sex = "Female",
                  Smoking = "Yes",
                  Cancer = 1,
                  freq = 25
                  )

FYN <- data.frame(Sex = "Female",
                  Smoking = "Yes",
                  Cancer = 0,
                  freq = 14
                  )

FNF <- data.frame(Sex = "Female",
                  Smoking = "No",
                  Cancer = 1,
                  freq = 25
                  )

FNN <- data.frame(Sex = "Female",
                  Smoking = "No",
                  Cancer = 0,
                  freq = 14
                  )

Ex_moderator <- rbind(MYF, MYN, MNF, MNN, FYF, FYN, FNF, FNN)

```

Convert Freq table to raw data

```

library(tidyr)
raw_moderator <- Ex_moderator %>%
  uncount(freq)

```

- Full model:

```

glm_logit <- glm(Cancer ~ Smoking , family=binomial(link = "logit"), data=raw_moderator)
glm_logit

```

```

##
## Call:  glm(formula = Cancer ~ Smoking, family = binomial(link = "logit"),
##         data = raw_moderator)
##
## Coefficients:
## (Intercept)  SmokingYes

```

```
##      -0.1582      0.6690
##
## Degrees of Freedom: 199 Total (i.e. Null);  198 Residual
## Null Deviance:      277.3
## Residual Deviance: 273.3      AIC: 277.3
```

- Stratified models

```
## For males
raw_moderator_M <- raw_moderator[ which(raw_moderator$Sex=='Male'), ]
glm_logit_m <- glm(Cancer ~ Smoking , family=binomial(link = "logit"), data=raw_moderator_M)
glm_logit_m
```

```
##
## Call:  glm(formula = Cancer ~ Smoking, family = binomial(link = "logit"),
##      data = raw_moderator_M)
##
## Coefficients:
## (Intercept)  SmokingYes
##      -0.4128      0.6360
##
## Degrees of Freedom: 121 Total (i.e. Null);  120 Residual
## Null Deviance:      165.1
## Residual Deviance: 164.3      AIC: 168.3
```

```
# For females
raw_moderator_F <- raw_moderator[ which(raw_moderator$Sex=='Female'), ]
glm_logit_f <- glm(Cancer ~ Smoking , family=binomial(link = "logit"), data=raw_moderator_F)
glm_logit_f
```

```
##
## Call:  glm(formula = Cancer ~ Smoking, family = binomial(link = "logit"),
##      data = raw_moderator_F)
##
## Coefficients:
## (Intercept)  SmokingYes
##  5.798e-01  -2.621e-16
##
## Degrees of Freedom: 77 Total (i.e. Null);  76 Residual
## Null Deviance:      101.8
## Residual Deviance: 101.8      AIC: 105.8
```


Chapter 3

Lecture: Nonparametric, semiparametric, and parametric survival models

3.1 Set packages and library

```
library(eha)
library(survival)
#install.packages("ggfortify")
library(ggfortify)
```

```
## Loading required package: ggplot2
```

```
library(ggplot2)
```

3.2 dataset

The *Child* dataset was from *eha* package.

```
summary(child) # descriptive statistics
```

```
##           id           m.id           sex           socBranch
## Min.      :    9   Min.      :   55   male :13676   official:  610
```

```
## 1st Qu.:249504 1st Qu.:248826 female:12898 farming :18641
## Median :500126 Median :504920 business: 318
## Mean :500080 Mean :501874 worker : 7005
## 3rd Qu.:750266 3rd Qu.:752827
## Max. :999976 Max. :999932
## birthdate enter exit event illeg
## Min. :1850-01-01 Min. :0 Min. : 0.003 Min. :0.0000 no :24567
## 1st Qu.:1861-01-05 1st Qu.:0 1st Qu.:15.000 1st Qu.:0.0000 yes: 2007
## Median :1870-08-08 Median :0 Median :15.000 Median :0.0000
## Mean :1869-06-09 Mean :0 Mean :12.231 Mean :0.2113
## 3rd Qu.:1878-05-08 3rd Qu.:0 3rd Qu.:15.000 3rd Qu.:0.0000
## Max. :1884-12-31 Max. :0 Max. :15.000 Max. :1.0000
## m.age
## Min. :15.83
## 1st Qu.:27.18
## Median :31.79
## Mean :32.03
## 3rd Qu.:36.74
## Max. :50.86
```

```
str(child) # structure
```

```
## 'data.frame': 26574 obs. of 10 variables:
## $ id : int 9 150 158 178 263 342 363 393 408 486 ...
## $ m.id : int 246606 377744 118277 715337 978617 282943 341341 840879 586140 5...
## $ sex : Factor w/ 2 levels "male","female": 1 1 1 1 2 1 1 1 2 2 ...
## $ socBranch: Factor w/ 4 levels "official","farming",...: 2 2 4 2 4 2 2 2 2 2 ...
## $ birthdate: Date, format: "1853-05-23" "1853-07-19" ...
## $ enter : num 0 0 0 0 0 0 0 0 0 0 ...
## $ exit : num 15 15 15 15 0.559 0.315 15 15 15 15 ...
## $ event : num 0 0 0 0 1 1 0 0 0 0 ...
## $ illeg : Factor w/ 2 levels "no","yes": 1 1 1 1 1 1 1 1 2 2 ...
## $ m.age : num 35 30.6 29.3 41.2 42.1 ...
```

```
head(child) # structure
```

```
## id m.id sex socBranch birthdate enter exit event illeg m.age
## 3 9 246606 male farming 1853-05-23 0 15.000 0 no 35.009
## 42 150 377744 male farming 1853-07-19 0 15.000 0 no 30.609
## 47 158 118277 male worker 1861-11-17 0 15.000 0 no 29.320
## 54 178 715337 male farming 1872-11-16 0 15.000 0 no 41.183
## 78 263 978617 female worker 1855-07-19 0 0.559 1 no 42.138
## 102 342 282943 male farming 1855-09-29 0 0.315 1 no 32.931
```


3.3 Nonparametric estimation

3.3.1 Data for nonparametric models

The following code creates a set of vector for survival analysis. It contains 5 individuals' survival time. 1 is an event (i.e., failure, death) and 0 is a censored case.

```
tt <- c(7,6,6,5,2,4)
cens <- c(0,1,0,0,1,1)
```

```
Surv(tt,cens)
```

```
## [1] 7+ 6 6+ 5+ 2 4
```

```
aaa <- Surv(tt,cens) # demonstration only for checking how survival dataset was constructed
```

```
aaa
```

```
## [1] 7+ 6 6+ 5+ 2 4
```

3.3.2 Kaplan-Meier estimator

```
## Models
result.km <- survfit(Surv(tt,cens)~1,
                     conf.type="log-log")
```

```
## Table
result.km
```

```
## Call: survfit(formula = Surv(tt, cens) ~ 1, conf.type = "log-log")
```

```
##
```

```
##      n events median 0.95LCL 0.95UCL
```

```
## [1,] 6      3      6      2      NA
```

```
summary(result.km)
```

```
## Call: survfit(formula = Surv(tt, cens) ~ 1, conf.type = "log-log")
```

```
##
```

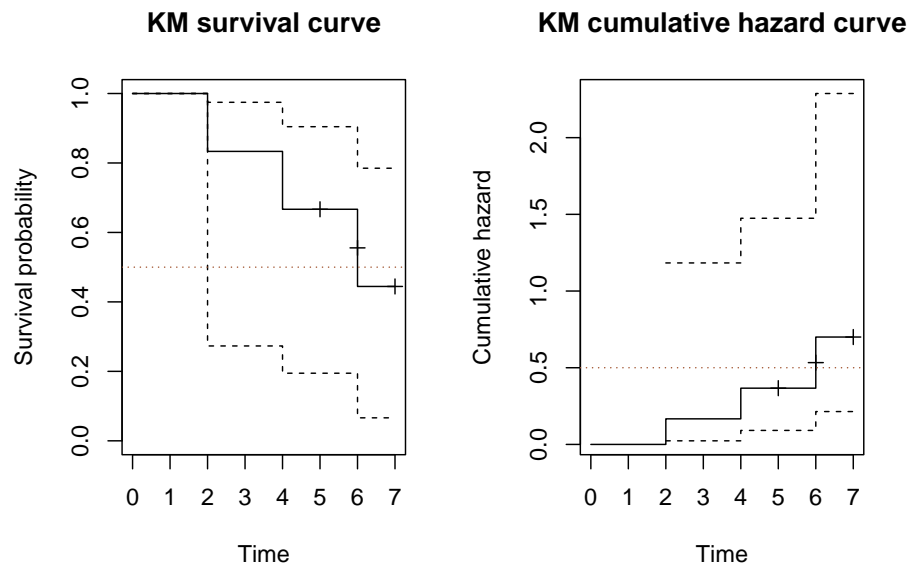
```
##  time n.risk n.event survival std.err lower 95% CI upper 95% CI
```

```
##    2     6      1   0.833   0.152   0.2731   0.975
```

```
##    4     5      1   0.667   0.192   0.1946   0.904
```

```
##    6     3      1   0.444   0.222   0.0662   0.785
```

```
## Plots
par(mfrow = c(1, 2))# Two panels, "one row, two columns".
plot(result.km,
      ylab = "Survival probability",
      xlab = "Time",
      mark.time = T,
      main="KM survival curve")
abline(h = 0.5, col = "sienna", lty = 3)
plot(result.km,
      ylab = "Cumulative hazard",
      xlab = "Time",
      mark.time = T,
      fun="cumhaz",
      main="KM cumulative hazard curve")
abline(h = 0.5, col = "sienna", lty = 3)
```



3.3.3 Nelson-Aalen estimator

```
## Models
result.fh <- survfit(Surv(tt,cens)~1, conf.type="log-log", type="fh")
```

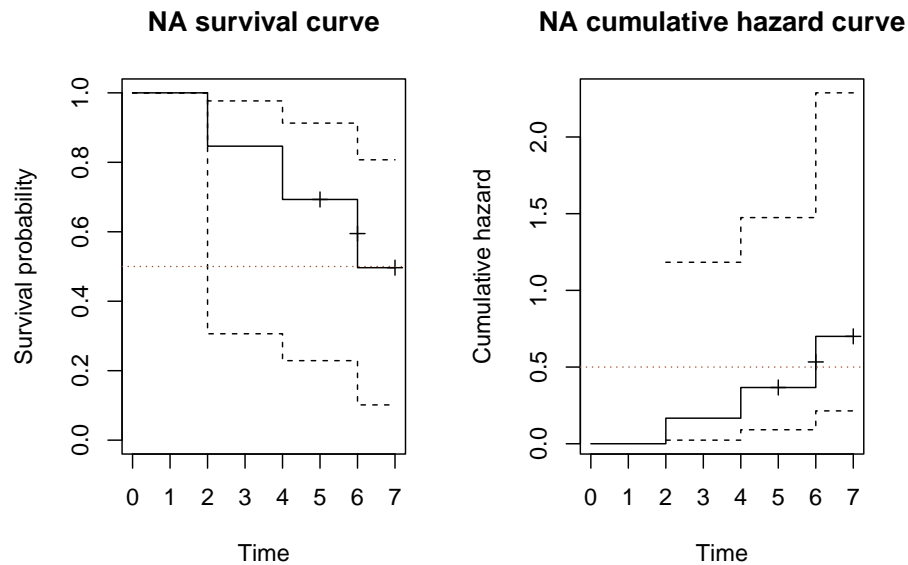
```
## Table
result.fh
```

```
## Call: survfit(formula = Surv(tt, cens) ~ 1, conf.type = "log-log",
##      type = "fh")
##
##      n events median 0.95LCL 0.95UCL
## [1,] 6      3      6      2      NA
```

```
summary(result.fh)
```

```
## Call: survfit(formula = Surv(tt, cens) ~ 1, conf.type = "log-log",
##      type = "fh")
##
##      time n.risk n.event survival std.err lower 95% CI upper 95% CI
##      2      6      1   0.846   0.141    0.306    0.977
##      4      5      1   0.693   0.180    0.229    0.913
##      6      3      1   0.497   0.210    0.101    0.807
```

```
# Plots
par(mfrow = c(1, 2))# Two panels, "one row, two columns".
plot(result.fh,
      ylab = "Survival probability",
      xlab = "Time",
      mark.time = T,
      main="NA survival curve")
abline(h = 0.5, col = "sienna", lty = 3)
plot(result.fh,
      ylab = "Cumulative hazard",
      xlab = "Time",
      mark.time = T,
      fun="cumhaz",
      main="NA cumulative hazard curve")
abline(h = 0.5, col = "sienna", lty = 3)
```



3.3.4 Comparisons by groups

```
bysex <- survfit(Surv(enter, exit, event) ~ sex,
                 data=child,
                 conf.type="log-log")
```

Tables

bysex

```
## Call: survfit(formula = Surv(enter, exit, event) ~ sex, data = child,
##               conf.type = "log-log")
```

```
##
```

```
##               n events median 0.95LCL 0.95UCL
## sex=male    13676   2985     NA      NA      NA
## sex=female  12898   2631     NA      NA      NA
```

```
summary(bysex)
```

```
## Call: survfit(formula = Surv(enter, exit, event) ~ sex, data = child,
##               conf.type = "log-log")
```

```
##
```

sex=male							
##	time	n.risk	n.event	survival	std.err	lower 95% CI	upper 95% CI
##	0.003	13676	34	0.998	0.000426	0.997	0.998
##	0.005	13642	26	0.996	0.000565	0.994	0.997
##	0.008	13616	15	0.995	0.000632	0.993	0.996
##	0.011	13601	8	0.994	0.000664	0.992	0.995
##	0.014	13593	30	0.992	0.000774	0.990	0.993
##	0.016	13563	11	0.991	0.000811	0.989	0.992
##	0.019	13552	22	0.989	0.000879	0.987	0.991
##	0.022	13530	13	0.988	0.000917	0.986	0.990
##	0.025	13517	21	0.987	0.000975	0.985	0.989
##	0.027	13495	16	0.986	0.001016	0.984	0.988
##	0.030	13479	17	0.984	0.001059	0.982	0.986
##	0.033	13461	16	0.983	0.001097	0.981	0.985
##	0.036	13445	20	0.982	0.001143	0.979	0.984
##	0.038	13425	18	0.980	0.001183	0.978	0.983
##	0.041	13407	10	0.980	0.001205	0.977	0.982
##	0.044	13397	13	0.979	0.001232	0.976	0.981
##	0.047	13384	13	0.978	0.001259	0.975	0.980
##	0.049	13371	8	0.977	0.001275	0.975	0.980
##	0.052	13362	11	0.976	0.001297	0.974	0.979
##	0.055	13351	11	0.976	0.001318	0.973	0.978
##	0.057	13340	10	0.975	0.001337	0.972	0.977
##	0.060	13330	11	0.974	0.001358	0.971	0.977
##	0.063	13319	7	0.974	0.001371	0.971	0.976
##	0.066	13312	8	0.973	0.001386	0.970	0.976
##	0.068	13304	6	0.973	0.001397	0.970	0.975
##	0.071	13298	7	0.972	0.001409	0.969	0.975
##	0.074	13291	3	0.972	0.001415	0.969	0.974
##	0.077	13288	7	0.971	0.001427	0.968	0.974
##	0.079	13281	5	0.971	0.001436	0.968	0.974
##	0.082	13276	6	0.971	0.001446	0.968	0.973
##	0.085	13270	8	0.970	0.001460	0.967	0.973
##	0.088	13260	2	0.970	0.001464	0.967	0.973
##	0.090	13258	6	0.969	0.001474	0.966	0.972
##	0.093	13252	6	0.969	0.001484	0.966	0.972
##	0.096	13246	8	0.968	0.001497	0.965	0.971
##	0.099	13238	6	0.968	0.001507	0.965	0.971
##	0.101	13232	5	0.968	0.001516	0.964	0.970
##	0.104	13227	5	0.967	0.001524	0.964	0.970
##	0.107	13222	8	0.967	0.001537	0.963	0.969
##	0.110	13214	6	0.966	0.001547	0.963	0.969
##	0.112	13208	3	0.966	0.001552	0.963	0.969
##	0.115	13205	8	0.965	0.001564	0.962	0.968
##	0.118	13197	2	0.965	0.001568	0.962	0.968
##	0.120	13195	4	0.965	0.001574	0.962	0.968

##	0.123	13190	7	0.964	0.001585	0.961	0.967
##	0.126	13181	4	0.964	0.001591	0.961	0.967
##	0.129	13175	5	0.964	0.001599	0.960	0.967
##	0.131	13170	2	0.964	0.001602	0.960	0.967
##	0.134	13168	3	0.963	0.001607	0.960	0.966
##	0.137	13165	5	0.963	0.001614	0.960	0.966
##	0.140	13160	3	0.963	0.001619	0.959	0.966
##	0.142	13157	3	0.963	0.001624	0.959	0.966
##	0.145	13154	4	0.962	0.001630	0.959	0.965
##	0.148	13150	6	0.962	0.001639	0.958	0.965
##	0.151	13144	2	0.962	0.001642	0.958	0.965
##	0.153	13142	2	0.962	0.001645	0.958	0.965
##	0.156	13140	1	0.961	0.001646	0.958	0.965
##	0.159	13139	5	0.961	0.001654	0.958	0.964
##	0.162	13131	6	0.961	0.001663	0.957	0.964
##	0.164	13125	3	0.960	0.001667	0.957	0.964
##	0.167	13122	7	0.960	0.001677	0.956	0.963
##	0.170	13115	5	0.960	0.001685	0.956	0.963
##	0.172	13110	5	0.959	0.001692	0.956	0.962
##	0.175	13105	1	0.959	0.001693	0.956	0.962
##	0.178	13104	7	0.959	0.001704	0.955	0.962
##	0.181	13097	5	0.958	0.001711	0.955	0.961
##	0.183	13092	1	0.958	0.001712	0.955	0.961
##	0.186	13091	3	0.958	0.001717	0.954	0.961
##	0.189	13088	3	0.958	0.001721	0.954	0.961
##	0.192	13085	6	0.957	0.001729	0.954	0.961
##	0.194	13079	1	0.957	0.001731	0.954	0.960
##	0.197	13078	4	0.957	0.001736	0.953	0.960
##	0.200	13073	4	0.957	0.001742	0.953	0.960
##	0.203	13069	3	0.956	0.001746	0.953	0.960
##	0.205	13066	5	0.956	0.001753	0.952	0.959
##	0.208	13060	4	0.956	0.001759	0.952	0.959
##	0.211	13056	2	0.956	0.001762	0.952	0.959
##	0.214	13054	5	0.955	0.001768	0.952	0.959
##	0.219	13049	2	0.955	0.001771	0.951	0.958
##	0.222	13047	3	0.955	0.001775	0.951	0.958
##	0.225	13044	6	0.954	0.001784	0.951	0.958
##	0.227	13038	4	0.954	0.001789	0.950	0.958
##	0.230	13034	8	0.954	0.001800	0.950	0.957
##	0.233	13026	5	0.953	0.001807	0.950	0.957
##	0.235	13021	6	0.953	0.001815	0.949	0.956
##	0.238	13015	2	0.953	0.001817	0.949	0.956
##	0.241	13013	4	0.952	0.001823	0.949	0.956
##	0.244	13009	2	0.952	0.001825	0.948	0.956
##	0.246	13006	6	0.952	0.001833	0.948	0.955
##	0.249	13000	4	0.951	0.001839	0.948	0.955

##	0.252	12996	3	0.951	0.001842	0.947	0.955
##	0.255	12993	4	0.951	0.001848	0.947	0.954
##	0.257	12989	3	0.951	0.001852	0.947	0.954
##	0.260	12986	4	0.950	0.001857	0.947	0.954
##	0.263	12982	1	0.950	0.001858	0.947	0.954
##	0.266	12980	2	0.950	0.001861	0.946	0.954
##	0.268	12978	1	0.950	0.001862	0.946	0.954
##	0.271	12977	4	0.950	0.001867	0.946	0.953
##	0.274	12973	4	0.950	0.001872	0.946	0.953
##	0.277	12969	2	0.949	0.001875	0.946	0.953
##	0.279	12967	1	0.949	0.001876	0.945	0.953
##	0.282	12966	4	0.949	0.001881	0.945	0.953
##	0.285	12962	3	0.949	0.001885	0.945	0.952
##	0.287	12959	1	0.949	0.001886	0.945	0.952
##	0.290	12957	3	0.949	0.001890	0.945	0.952
##	0.293	12954	3	0.948	0.001894	0.944	0.952
##	0.296	12951	4	0.948	0.001899	0.944	0.952
##	0.298	12947	1	0.948	0.001900	0.944	0.952
##	0.301	12946	5	0.948	0.001907	0.944	0.951
##	0.304	12941	4	0.947	0.001912	0.943	0.951
##	0.307	12937	2	0.947	0.001914	0.943	0.951
##	0.309	12935	1	0.947	0.001916	0.943	0.951
##	0.312	12933	5	0.947	0.001922	0.943	0.950
##	0.315	12928	2	0.947	0.001924	0.943	0.950
##	0.318	12926	1	0.946	0.001926	0.943	0.950
##	0.320	12925	2	0.946	0.001928	0.942	0.950
##	0.323	12923	1	0.946	0.001929	0.942	0.950
##	0.326	12922	3	0.946	0.001933	0.942	0.950
##	0.329	12919	3	0.946	0.001937	0.942	0.949
##	0.331	12916	6	0.945	0.001944	0.941	0.949
##	0.337	12910	3	0.945	0.001948	0.941	0.949
##	0.339	12907	2	0.945	0.001950	0.941	0.949
##	0.342	12905	1	0.945	0.001951	0.941	0.949
##	0.345	12904	2	0.945	0.001954	0.941	0.948
##	0.348	12902	2	0.945	0.001956	0.941	0.948
##	0.353	12900	1	0.945	0.001958	0.941	0.948
##	0.359	12899	2	0.944	0.001960	0.940	0.948
##	0.361	12897	2	0.944	0.001962	0.940	0.948
##	0.364	12895	3	0.944	0.001966	0.940	0.948
##	0.367	12892	5	0.944	0.001972	0.940	0.947
##	0.370	12887	4	0.943	0.001977	0.939	0.947
##	0.372	12883	2	0.943	0.001979	0.939	0.947
##	0.375	12881	2	0.943	0.001982	0.939	0.947
##	0.378	12879	3	0.943	0.001985	0.939	0.947
##	0.383	12874	3	0.943	0.001989	0.939	0.946
##	0.389	12871	2	0.942	0.001991	0.938	0.946

##	0.392	12869	4	0.942	0.001996	0.938	0.946
##	0.397	12865	1	0.942	0.001997	0.938	0.946
##	0.400	12864	2	0.942	0.002000	0.938	0.946
##	0.402	12860	4	0.942	0.002004	0.938	0.945
##	0.405	12856	2	0.942	0.002007	0.937	0.945
##	0.408	12854	2	0.941	0.002009	0.937	0.945
##	0.411	12852	1	0.941	0.002010	0.937	0.945
##	0.413	12850	3	0.941	0.002014	0.937	0.945
##	0.416	12847	1	0.941	0.002015	0.937	0.945
##	0.419	12846	1	0.941	0.002016	0.937	0.945
##	0.422	12845	2	0.941	0.002018	0.937	0.945
##	0.424	12843	4	0.941	0.002023	0.936	0.944
##	0.427	12839	2	0.940	0.002025	0.936	0.944
##	0.430	12837	1	0.940	0.002027	0.936	0.944
##	0.433	12836	5	0.940	0.002032	0.936	0.944
##	0.435	12831	5	0.940	0.002038	0.935	0.943
##	0.438	12826	4	0.939	0.002043	0.935	0.943
##	0.444	12822	2	0.939	0.002045	0.935	0.943
##	0.446	12819	3	0.939	0.002049	0.935	0.943
##	0.449	12816	2	0.939	0.002051	0.935	0.943
##	0.452	12814	2	0.939	0.002053	0.934	0.943
##	0.454	12812	2	0.938	0.002055	0.934	0.942
##	0.457	12809	3	0.938	0.002059	0.934	0.942
##	0.460	12806	5	0.938	0.002065	0.934	0.942
##	0.463	12801	5	0.938	0.002070	0.933	0.941
##	0.465	12796	1	0.937	0.002071	0.933	0.941
##	0.471	12795	4	0.937	0.002076	0.933	0.941
##	0.474	12791	3	0.937	0.002079	0.933	0.941
##	0.476	12788	1	0.937	0.002080	0.933	0.941
##	0.479	12787	1	0.937	0.002082	0.933	0.941
##	0.487	12785	2	0.937	0.002084	0.932	0.941
##	0.490	12783	4	0.936	0.002088	0.932	0.940
##	0.493	12779	4	0.936	0.002093	0.932	0.940
##	0.496	12775	3	0.936	0.002096	0.932	0.940
##	0.498	12772	3	0.936	0.002100	0.931	0.940
##	0.501	12769	1	0.936	0.002101	0.931	0.940
##	0.504	12768	3	0.935	0.002104	0.931	0.939
##	0.507	12764	2	0.935	0.002106	0.931	0.939
##	0.509	12762	4	0.935	0.002111	0.931	0.939
##	0.512	12758	1	0.935	0.002112	0.931	0.939
##	0.515	12757	1	0.935	0.002113	0.930	0.939
##	0.520	12756	1	0.935	0.002114	0.930	0.939
##	0.523	12755	1	0.935	0.002115	0.930	0.939
##	0.526	12754	6	0.934	0.002122	0.930	0.938
##	0.528	12748	1	0.934	0.002123	0.930	0.938
##	0.531	12747	1	0.934	0.002124	0.930	0.938

##	0.534	12746	4	0.934	0.002128	0.929	0.938
##	0.537	12742	3	0.933	0.002132	0.929	0.938
##	0.539	12739	3	0.933	0.002135	0.929	0.937
##	0.542	12735	4	0.933	0.002139	0.929	0.937
##	0.545	12731	2	0.933	0.002141	0.929	0.937
##	0.548	12729	1	0.933	0.002142	0.928	0.937
##	0.550	12728	2	0.933	0.002145	0.928	0.937
##	0.553	12726	3	0.932	0.002148	0.928	0.936
##	0.556	12723	4	0.932	0.002152	0.928	0.936
##	0.561	12718	3	0.932	0.002155	0.928	0.936
##	0.564	12714	1	0.932	0.002156	0.927	0.936
##	0.567	12713	1	0.932	0.002158	0.927	0.936
##	0.569	12712	3	0.932	0.002161	0.927	0.936
##	0.572	12709	4	0.931	0.002165	0.927	0.935
##	0.575	12705	2	0.931	0.002167	0.927	0.935
##	0.578	12703	2	0.931	0.002169	0.927	0.935
##	0.580	12701	2	0.931	0.002171	0.926	0.935
##	0.583	12699	1	0.931	0.002173	0.926	0.935
##	0.586	12698	1	0.931	0.002174	0.926	0.935
##	0.589	12697	2	0.930	0.002176	0.926	0.935
##	0.591	12695	2	0.930	0.002178	0.926	0.934
##	0.597	12692	2	0.930	0.002180	0.926	0.934
##	0.600	12690	1	0.930	0.002181	0.926	0.934
##	0.602	12689	2	0.930	0.002183	0.926	0.934
##	0.605	12687	1	0.930	0.002184	0.925	0.934
##	0.608	12686	3	0.930	0.002187	0.925	0.934
##	0.611	12683	1	0.930	0.002188	0.925	0.934
##	0.613	12682	1	0.930	0.002189	0.925	0.934
##	0.619	12681	1	0.929	0.002191	0.925	0.934
##	0.621	12680	1	0.929	0.002192	0.925	0.934
##	0.624	12679	1	0.929	0.002193	0.925	0.933
##	0.627	12678	3	0.929	0.002196	0.925	0.933
##	0.630	12675	1	0.929	0.002197	0.925	0.933
##	0.632	12674	1	0.929	0.002198	0.925	0.933
##	0.635	12672	3	0.929	0.002201	0.924	0.933
##	0.638	12669	2	0.929	0.002203	0.924	0.933
##	0.641	12667	3	0.928	0.002206	0.924	0.933
##	0.643	12664	6	0.928	0.002213	0.923	0.932
##	0.646	12658	1	0.928	0.002214	0.923	0.932
##	0.649	12655	3	0.928	0.002217	0.923	0.932
##	0.652	12651	2	0.927	0.002219	0.923	0.932
##	0.654	12649	1	0.927	0.002220	0.923	0.932
##	0.657	12648	1	0.927	0.002221	0.923	0.932
##	0.660	12647	4	0.927	0.002225	0.923	0.931
##	0.663	12643	1	0.927	0.002226	0.922	0.931
##	0.665	12642	1	0.927	0.002227	0.922	0.931

##	0.668	12641	1	0.927	0.002228	0.922	0.931
##	0.674	12640	4	0.927	0.002232	0.922	0.931
##	0.676	12636	2	0.926	0.002234	0.922	0.931
##	0.679	12634	2	0.926	0.002236	0.922	0.930
##	0.682	12632	1	0.926	0.002237	0.922	0.930
##	0.687	12631	5	0.926	0.002242	0.921	0.930
##	0.690	12626	2	0.926	0.002244	0.921	0.930
##	0.693	12624	3	0.925	0.002248	0.921	0.930
##	0.695	12621	1	0.925	0.002249	0.921	0.930
##	0.701	12620	3	0.925	0.002252	0.921	0.929
##	0.706	12617	2	0.925	0.002254	0.920	0.929
##	0.712	12615	1	0.925	0.002255	0.920	0.929
##	0.715	12614	2	0.925	0.002257	0.920	0.929
##	0.717	12612	2	0.925	0.002259	0.920	0.929
##	0.720	12610	4	0.924	0.002263	0.920	0.929
##	0.726	12605	3	0.924	0.002266	0.920	0.928
##	0.728	12602	3	0.924	0.002269	0.919	0.928
##	0.731	12598	2	0.924	0.002271	0.919	0.928
##	0.734	12596	3	0.924	0.002274	0.919	0.928
##	0.736	12593	1	0.923	0.002275	0.919	0.928
##	0.739	12592	4	0.923	0.002279	0.919	0.927
##	0.742	12587	1	0.923	0.002280	0.918	0.927
##	0.745	12586	1	0.923	0.002281	0.918	0.927
##	0.747	12585	3	0.923	0.002284	0.918	0.927
##	0.750	12582	1	0.923	0.002285	0.918	0.927
##	0.753	12581	2	0.923	0.002287	0.918	0.927
##	0.756	12579	1	0.922	0.002288	0.918	0.927
##	0.761	12577	1	0.922	0.002289	0.918	0.927
##	0.767	12575	2	0.922	0.002291	0.918	0.927
##	0.769	12571	5	0.922	0.002296	0.917	0.926
##	0.772	12566	2	0.922	0.002298	0.917	0.926
##	0.778	12564	1	0.922	0.002299	0.917	0.926
##	0.780	12563	3	0.921	0.002302	0.917	0.926
##	0.783	12560	2	0.921	0.002304	0.917	0.926
##	0.786	12558	2	0.921	0.002306	0.917	0.926
##	0.789	12556	3	0.921	0.002308	0.916	0.925
##	0.791	12553	2	0.921	0.002310	0.916	0.925
##	0.794	12551	1	0.921	0.002311	0.916	0.925
##	0.797	12550	4	0.920	0.002315	0.916	0.925
##	0.799	12546	4	0.920	0.002319	0.915	0.925
##	0.802	12542	3	0.920	0.002322	0.915	0.924
##	0.805	12539	2	0.920	0.002324	0.915	0.924
##	0.808	12537	1	0.920	0.002325	0.915	0.924
##	0.810	12536	3	0.919	0.002328	0.915	0.924
##	0.816	12533	3	0.919	0.002331	0.915	0.924
##	0.819	12529	1	0.919	0.002332	0.914	0.924

##	0.821	12528	1	0.919	0.002333	0.914	0.924
##	0.824	12526	3	0.919	0.002336	0.914	0.923
##	0.830	12523	2	0.919	0.002338	0.914	0.923
##	0.832	12521	1	0.919	0.002339	0.914	0.923
##	0.835	12520	1	0.919	0.002340	0.914	0.923
##	0.838	12519	2	0.918	0.002342	0.914	0.923
##	0.841	12517	1	0.918	0.002342	0.914	0.923
##	0.843	12516	3	0.918	0.002345	0.913	0.923
##	0.851	12513	1	0.918	0.002346	0.913	0.923
##	0.854	12512	2	0.918	0.002348	0.913	0.922
##	0.857	12510	4	0.918	0.002352	0.913	0.922
##	0.860	12506	2	0.917	0.002354	0.913	0.922
##	0.865	12504	2	0.917	0.002356	0.913	0.922
##	0.868	12502	2	0.917	0.002358	0.912	0.922
##	0.871	12498	3	0.917	0.002361	0.912	0.921
##	0.873	12495	1	0.917	0.002362	0.912	0.921
##	0.876	12494	3	0.917	0.002364	0.912	0.921
##	0.882	12491	4	0.916	0.002368	0.912	0.921
##	0.884	12487	1	0.916	0.002369	0.912	0.921
##	0.887	12485	3	0.916	0.002372	0.911	0.921
##	0.890	12482	2	0.916	0.002374	0.911	0.920
##	0.893	12480	2	0.916	0.002376	0.911	0.920
##	0.895	12478	3	0.916	0.002379	0.911	0.920
##	0.898	12475	1	0.916	0.002380	0.911	0.920
##	0.901	12474	4	0.915	0.002383	0.910	0.920
##	0.906	12470	1	0.915	0.002384	0.910	0.920
##	0.909	12469	1	0.915	0.002385	0.910	0.920
##	0.917	12468	4	0.915	0.002389	0.910	0.919
##	0.920	12464	1	0.915	0.002390	0.910	0.919
##	0.923	12463	2	0.915	0.002392	0.910	0.919
##	0.925	12460	2	0.914	0.002394	0.910	0.919
##	0.928	12458	1	0.914	0.002395	0.910	0.919
##	0.934	12457	1	0.914	0.002396	0.909	0.919
##	0.936	12456	1	0.914	0.002396	0.909	0.919
##	0.939	12455	1	0.914	0.002397	0.909	0.919
##	0.945	12454	1	0.914	0.002398	0.909	0.919
##	0.947	12453	2	0.914	0.002400	0.909	0.918
##	0.950	12451	1	0.914	0.002401	0.909	0.918
##	0.953	12449	3	0.914	0.002404	0.909	0.918
##	0.956	12446	1	0.914	0.002405	0.909	0.918
##	0.958	12445	1	0.913	0.002406	0.909	0.918
##	0.961	12444	1	0.913	0.002407	0.909	0.918
##	0.964	12442	4	0.913	0.002410	0.908	0.918
##	0.969	12437	1	0.913	0.002411	0.908	0.918
##	0.972	12436	2	0.913	0.002413	0.908	0.917
##	0.975	12434	2	0.913	0.002415	0.908	0.917

##	0.977	12432	2	0.913	0.002417	0.908	0.917
##	0.980	12430	2	0.912	0.002419	0.908	0.917
##	0.983	12428	2	0.912	0.002421	0.907	0.917
##	0.986	12426	1	0.912	0.002421	0.907	0.917
##	0.988	12425	1	0.912	0.002422	0.907	0.917
##	0.991	12424	4	0.912	0.002426	0.907	0.916
##	0.994	12420	1	0.912	0.002427	0.907	0.916
##	0.999	12419	3	0.912	0.002430	0.907	0.916
##	1.005	12416	1	0.911	0.002431	0.907	0.916
##	1.008	12415	2	0.911	0.002432	0.906	0.916
##	1.010	12413	1	0.911	0.002433	0.906	0.916
##	1.018	12412	2	0.911	0.002435	0.906	0.916
##	1.021	12410	1	0.911	0.002436	0.906	0.916
##	1.024	12409	2	0.911	0.002438	0.906	0.916
##	1.027	12407	3	0.911	0.002441	0.906	0.915
##	1.029	12404	2	0.911	0.002442	0.906	0.915
##	1.032	12402	1	0.910	0.002443	0.906	0.915
##	1.035	12401	1	0.910	0.002444	0.905	0.915
##	1.038	12400	3	0.910	0.002447	0.905	0.915
##	1.040	12396	1	0.910	0.002448	0.905	0.915
##	1.043	12395	1	0.910	0.002449	0.905	0.915
##	1.046	12394	1	0.910	0.002450	0.905	0.915
##	1.049	12393	1	0.910	0.002451	0.905	0.915
##	1.051	12392	2	0.910	0.002452	0.905	0.914
##	1.054	12390	1	0.910	0.002453	0.905	0.914
##	1.057	12389	1	0.910	0.002454	0.905	0.914
##	1.060	12388	1	0.909	0.002455	0.905	0.914
##	1.065	12387	2	0.909	0.002457	0.904	0.914
##	1.068	12385	1	0.909	0.002458	0.904	0.914
##	1.073	12384	1	0.909	0.002459	0.904	0.914
##	1.076	12383	1	0.909	0.002460	0.904	0.914
##	1.081	12382	1	0.909	0.002460	0.904	0.914
##	1.084	12380	1	0.909	0.002461	0.904	0.914
##	1.087	12379	1	0.909	0.002462	0.904	0.914
##	1.090	12378	1	0.909	0.002463	0.904	0.914
##	1.092	12377	2	0.909	0.002465	0.904	0.913
##	1.095	12375	1	0.909	0.002466	0.904	0.913
##	1.106	12374	2	0.908	0.002468	0.904	0.913
##	1.109	12372	2	0.908	0.002469	0.903	0.913
##	1.114	12369	1	0.908	0.002470	0.903	0.913
##	1.117	12368	2	0.908	0.002472	0.903	0.913
##	1.120	12366	2	0.908	0.002474	0.903	0.913
##	1.123	12364	3	0.908	0.002477	0.903	0.912
##	1.125	12361	2	0.908	0.002478	0.903	0.912
##	1.128	12359	4	0.907	0.002482	0.902	0.912
##	1.131	12355	1	0.907	0.002483	0.902	0.912

##	1.133	12354	1	0.907	0.002484	0.902	0.912
##	1.136	12353	1	0.907	0.002484	0.902	0.912
##	1.142	12352	1	0.907	0.002485	0.902	0.912
##	1.144	12350	1	0.907	0.002486	0.902	0.912
##	1.147	12349	2	0.907	0.002488	0.902	0.912
##	1.150	12347	1	0.907	0.002489	0.902	0.911
##	1.155	12346	3	0.906	0.002492	0.901	0.911
##	1.158	12343	1	0.906	0.002492	0.901	0.911
##	1.164	12342	1	0.906	0.002493	0.901	0.911
##	1.166	12341	1	0.906	0.002494	0.901	0.911
##	1.172	12340	2	0.906	0.002496	0.901	0.911
##	1.183	12338	2	0.906	0.002498	0.901	0.911
##	1.185	12336	2	0.906	0.002499	0.901	0.911
##	1.191	12334	2	0.906	0.002501	0.901	0.910
##	1.194	12331	1	0.906	0.002502	0.901	0.910
##	1.196	12330	1	0.906	0.002503	0.901	0.910
##	1.199	12329	4	0.905	0.002506	0.900	0.910
##	1.202	12325	3	0.905	0.002509	0.900	0.910
##	1.205	12322	1	0.905	0.002510	0.900	0.910
##	1.207	12321	2	0.905	0.002512	0.900	0.910
##	1.210	12319	1	0.905	0.002513	0.900	0.910
##	1.213	12318	3	0.905	0.002515	0.899	0.909
##	1.216	12315	1	0.904	0.002516	0.899	0.909
##	1.218	12314	1	0.904	0.002517	0.899	0.909
##	1.221	12313	1	0.904	0.002518	0.899	0.909
##	1.224	12312	1	0.904	0.002519	0.899	0.909
##	1.238	12310	1	0.904	0.002519	0.899	0.909
##	1.240	12308	3	0.904	0.002522	0.899	0.909
##	1.246	12305	1	0.904	0.002523	0.899	0.909
##	1.251	12304	3	0.904	0.002526	0.899	0.908
##	1.254	12301	1	0.904	0.002526	0.898	0.908
##	1.262	12300	1	0.903	0.002527	0.898	0.908
##	1.265	12299	1	0.903	0.002528	0.898	0.908
##	1.270	12297	3	0.903	0.002531	0.898	0.908
##	1.273	12293	2	0.903	0.002532	0.898	0.908
##	1.279	12291	1	0.903	0.002533	0.898	0.908
##	1.284	12290	3	0.903	0.002536	0.898	0.908
##	1.287	12287	3	0.903	0.002538	0.897	0.907
##	1.290	12284	1	0.902	0.002539	0.897	0.907
##	1.298	12283	1	0.902	0.002540	0.897	0.907
##	1.303	12282	1	0.902	0.002541	0.897	0.907
##	1.306	12281	1	0.902	0.002542	0.897	0.907
##	1.309	12280	1	0.902	0.002543	0.897	0.907
##	1.311	12279	2	0.902	0.002544	0.897	0.907
##	1.320	12277	2	0.902	0.002546	0.897	0.907
##	1.331	12274	1	0.902	0.002547	0.897	0.907

##	1.333	12273	1	0.902	0.002548	0.897	0.907
##	1.339	12272	2	0.902	0.002550	0.896	0.906
##	1.342	12270	2	0.901	0.002551	0.896	0.906
##	1.344	12268	2	0.901	0.002553	0.896	0.906
##	1.350	12265	2	0.901	0.002555	0.896	0.906
##	1.355	12262	2	0.901	0.002556	0.896	0.906
##	1.358	12259	1	0.901	0.002557	0.896	0.906
##	1.363	12258	2	0.901	0.002559	0.896	0.906
##	1.366	12256	2	0.901	0.002561	0.895	0.906
##	1.369	12254	2	0.900	0.002562	0.895	0.905
##	1.372	12251	1	0.900	0.002563	0.895	0.905
##	1.374	12250	1	0.900	0.002564	0.895	0.905
##	1.377	12248	3	0.900	0.002566	0.895	0.905
##	1.380	12244	1	0.900	0.002567	0.895	0.905
##	1.383	12242	2	0.900	0.002569	0.895	0.905
##	1.388	12240	2	0.900	0.002571	0.895	0.905
##	1.391	12238	3	0.900	0.002573	0.894	0.904
##	1.394	12235	1	0.899	0.002574	0.894	0.904
##	1.402	12234	1	0.899	0.002575	0.894	0.904
##	1.405	12233	1	0.899	0.002576	0.894	0.904
##	1.407	12232	2	0.899	0.002577	0.894	0.904
##	1.410	12230	3	0.899	0.002580	0.894	0.904
##	1.413	12227	1	0.899	0.002581	0.894	0.904
##	1.415	12225	2	0.899	0.002582	0.894	0.904
##	1.421	12223	3	0.898	0.002585	0.893	0.903
##	1.424	12220	5	0.898	0.002589	0.893	0.903
##	1.429	12215	2	0.898	0.002591	0.893	0.903
##	1.440	12213	1	0.898	0.002592	0.893	0.903
##	1.443	12212	3	0.898	0.002594	0.892	0.903
##	1.457	12208	1	0.898	0.002595	0.892	0.903
##	1.459	12207	1	0.898	0.002596	0.892	0.902
##	1.465	12206	1	0.897	0.002597	0.892	0.902
##	1.467	12205	2	0.897	0.002598	0.892	0.902
##	1.473	12202	3	0.897	0.002601	0.892	0.902
##	1.476	12199	1	0.897	0.002602	0.892	0.902
##	1.478	12198	2	0.897	0.002603	0.892	0.902
##	1.489	12195	1	0.897	0.002604	0.892	0.902
##	1.498	12193	1	0.897	0.002605	0.891	0.902
##	1.500	12191	4	0.896	0.002608	0.891	0.901
##	1.511	12187	1	0.896	0.002609	0.891	0.901
##	1.517	12186	1	0.896	0.002610	0.891	0.901
##	1.520	12185	1	0.896	0.002611	0.891	0.901
##	1.522	12184	3	0.896	0.002613	0.891	0.901
##	1.525	12181	1	0.896	0.002614	0.891	0.901
##	1.528	12180	1	0.896	0.002615	0.891	0.901
##	1.530	12179	2	0.896	0.002616	0.890	0.901

##	1.533	12177	3	0.895	0.002619	0.890	0.900
##	1.547	12173	2	0.895	0.002620	0.890	0.900
##	1.558	12171	1	0.895	0.002621	0.890	0.900
##	1.561	12170	1	0.895	0.002622	0.890	0.900
##	1.566	12168	1	0.895	0.002623	0.890	0.900
##	1.569	12167	1	0.895	0.002624	0.890	0.900
##	1.572	12166	1	0.895	0.002625	0.890	0.900
##	1.574	12165	1	0.895	0.002625	0.890	0.900
##	1.577	12164	3	0.895	0.002628	0.889	0.900
##	1.580	12161	2	0.895	0.002629	0.889	0.900
##	1.582	12159	1	0.894	0.002630	0.889	0.899
##	1.588	12157	1	0.894	0.002631	0.889	0.899
##	1.591	12156	2	0.894	0.002633	0.889	0.899
##	1.596	12154	1	0.894	0.002633	0.889	0.899
##	1.599	12153	2	0.894	0.002635	0.889	0.899
##	1.602	12151	2	0.894	0.002637	0.889	0.899
##	1.604	12149	2	0.894	0.002638	0.888	0.899
##	1.610	12147	1	0.894	0.002639	0.888	0.899
##	1.613	12146	1	0.894	0.002640	0.888	0.899
##	1.615	12145	1	0.893	0.002641	0.888	0.899
##	1.621	12144	1	0.893	0.002642	0.888	0.898
##	1.629	12143	2	0.893	0.002643	0.888	0.898
##	1.632	12141	1	0.893	0.002644	0.888	0.898
##	1.640	12139	1	0.893	0.002645	0.888	0.898
##	1.643	12138	1	0.893	0.002646	0.888	0.898
##	1.645	12137	2	0.893	0.002647	0.888	0.898
##	1.648	12135	1	0.893	0.002648	0.888	0.898
##	1.651	12134	1	0.893	0.002649	0.887	0.898
##	1.654	12133	1	0.893	0.002650	0.887	0.898
##	1.656	12132	3	0.892	0.002652	0.887	0.898
##	1.662	12128	1	0.892	0.002653	0.887	0.897
##	1.665	12127	2	0.892	0.002654	0.887	0.897
##	1.667	12125	1	0.892	0.002655	0.887	0.897
##	1.676	12124	1	0.892	0.002656	0.887	0.897
##	1.678	12123	1	0.892	0.002657	0.887	0.897
##	1.681	12121	1	0.892	0.002658	0.887	0.897
##	1.684	12120	1	0.892	0.002658	0.887	0.897
##	1.692	12118	1	0.892	0.002659	0.886	0.897
##	1.700	12117	1	0.892	0.002660	0.886	0.897
##	1.703	12116	3	0.891	0.002662	0.886	0.897
##	1.706	12113	2	0.891	0.002664	0.886	0.896
##	1.711	12111	3	0.891	0.002666	0.886	0.896
##	1.717	12108	3	0.891	0.002669	0.886	0.896
##	1.719	12105	1	0.891	0.002670	0.885	0.896
##	1.722	12104	1	0.891	0.002670	0.885	0.896
##	1.733	12102	1	0.891	0.002671	0.885	0.896

##	1.736	12101	1	0.891	0.002672	0.885	0.896
##	1.739	12100	1	0.891	0.002673	0.885	0.896
##	1.744	12099	1	0.890	0.002674	0.885	0.896
##	1.749	12097	2	0.890	0.002675	0.885	0.895
##	1.752	12095	1	0.890	0.002676	0.885	0.895
##	1.755	12093	2	0.890	0.002677	0.885	0.895
##	1.760	12091	1	0.890	0.002678	0.885	0.895
##	1.763	12090	5	0.890	0.002682	0.884	0.895
##	1.769	12084	3	0.889	0.002685	0.884	0.895
##	1.777	12081	2	0.889	0.002686	0.884	0.894
##	1.780	12079	3	0.889	0.002689	0.884	0.894
##	1.785	12076	2	0.889	0.002690	0.884	0.894
##	1.788	12074	1	0.889	0.002691	0.883	0.894
##	1.796	12073	1	0.889	0.002692	0.883	0.894
##	1.804	12071	1	0.889	0.002692	0.883	0.894
##	1.807	12070	2	0.889	0.002694	0.883	0.894
##	1.810	12068	3	0.888	0.002696	0.883	0.893
##	1.812	12065	2	0.888	0.002698	0.883	0.893
##	1.818	12063	2	0.888	0.002699	0.883	0.893
##	1.823	12061	1	0.888	0.002700	0.883	0.893
##	1.834	12059	1	0.888	0.002701	0.882	0.893
##	1.837	12058	1	0.888	0.002702	0.882	0.893
##	1.840	12057	1	0.888	0.002703	0.882	0.893
##	1.843	12055	1	0.888	0.002703	0.882	0.893
##	1.848	12054	2	0.888	0.002705	0.882	0.893
##	1.851	12052	2	0.887	0.002706	0.882	0.893
##	1.854	12050	4	0.887	0.002710	0.882	0.892
##	1.859	12045	1	0.887	0.002710	0.882	0.892
##	1.862	12044	1	0.887	0.002711	0.881	0.892
##	1.867	12043	1	0.887	0.002712	0.881	0.892
##	1.870	12042	1	0.887	0.002713	0.881	0.892
##	1.873	12041	2	0.887	0.002714	0.881	0.892
##	1.875	12039	4	0.886	0.002717	0.881	0.892
##	1.878	12035	3	0.886	0.002720	0.881	0.891
##	1.881	12032	1	0.886	0.002720	0.881	0.891
##	1.884	12031	1	0.886	0.002721	0.881	0.891
##	1.886	12029	5	0.886	0.002725	0.880	0.891
##	1.889	12024	1	0.886	0.002726	0.880	0.891
##	1.892	12023	2	0.885	0.002727	0.880	0.891
##	1.897	12021	1	0.885	0.002728	0.880	0.891
##	1.900	12019	2	0.885	0.002730	0.880	0.890
##	1.903	12017	3	0.885	0.002732	0.879	0.890
##	1.911	12014	2	0.885	0.002733	0.879	0.890
##	1.914	12012	4	0.884	0.002737	0.879	0.890
##	1.925	12008	2	0.884	0.002738	0.879	0.890
##	1.936	12006	2	0.884	0.002740	0.879	0.889

##	1.938	12004	1	0.884	0.002740	0.879	0.889
##	1.941	12003	2	0.884	0.002742	0.878	0.889
##	1.947	12000	2	0.884	0.002743	0.878	0.889
##	1.949	11998	1	0.884	0.002744	0.878	0.889
##	1.952	11997	3	0.884	0.002746	0.878	0.889
##	1.955	11993	2	0.883	0.002748	0.878	0.889
##	1.958	11990	2	0.883	0.002749	0.878	0.889
##	1.960	11988	1	0.883	0.002750	0.878	0.888
##	1.963	11987	1	0.883	0.002751	0.878	0.888
##	1.969	11986	2	0.883	0.002752	0.877	0.888
##	1.971	11983	1	0.883	0.002753	0.877	0.888
##	1.974	11982	1	0.883	0.002754	0.877	0.888
##	1.977	11981	1	0.883	0.002755	0.877	0.888
##	1.979	11979	2	0.883	0.002756	0.877	0.888
##	1.985	11977	1	0.883	0.002757	0.877	0.888
##	1.988	11976	2	0.882	0.002759	0.877	0.888
##	1.993	11974	1	0.882	0.002759	0.877	0.888
##	1.999	11973	2	0.882	0.002761	0.877	0.887
##	2.015	11970	3	0.882	0.002763	0.876	0.887
##	2.018	11967	5	0.882	0.002767	0.876	0.887
##	2.031	11962	1	0.881	0.002768	0.876	0.887
##	2.037	11961	1	0.881	0.002768	0.876	0.887
##	2.042	11958	1	0.881	0.002769	0.876	0.887
##	2.045	11957	2	0.881	0.002771	0.876	0.886
##	2.051	11955	1	0.881	0.002771	0.876	0.886
##	2.053	11954	3	0.881	0.002774	0.875	0.886
##	2.056	11951	2	0.881	0.002775	0.875	0.886
##	2.059	11949	1	0.881	0.002776	0.875	0.886
##	2.062	11948	1	0.881	0.002777	0.875	0.886
##	2.064	11946	1	0.881	0.002777	0.875	0.886
##	2.067	11945	2	0.880	0.002779	0.875	0.886
##	2.070	11943	2	0.880	0.002780	0.875	0.886
##	2.075	11941	1	0.880	0.002781	0.875	0.885
##	2.084	11938	2	0.880	0.002782	0.874	0.885
##	2.086	11935	2	0.880	0.002784	0.874	0.885
##	2.089	11933	1	0.880	0.002785	0.874	0.885
##	2.092	11932	2	0.880	0.002786	0.874	0.885
##	2.103	11930	3	0.879	0.002788	0.874	0.885
##	2.108	11927	4	0.879	0.002791	0.874	0.884
##	2.111	11923	1	0.879	0.002792	0.873	0.884
##	2.119	11922	2	0.879	0.002794	0.873	0.884
##	2.125	11920	1	0.879	0.002794	0.873	0.884
##	2.127	11918	1	0.879	0.002795	0.873	0.884
##	2.133	11917	1	0.879	0.002796	0.873	0.884
##	2.136	11916	3	0.878	0.002798	0.873	0.884
##	2.144	11913	1	0.878	0.002799	0.873	0.884

##	2.149	11911	3	0.878	0.002801	0.873	0.884
##	2.163	11908	1	0.878	0.002802	0.872	0.883
##	2.166	11907	1	0.878	0.002802	0.872	0.883
##	2.168	11906	1	0.878	0.002803	0.872	0.883
##	2.171	11905	1	0.878	0.002804	0.872	0.883
##	2.174	11903	1	0.878	0.002805	0.872	0.883
##	2.177	11902	1	0.878	0.002805	0.872	0.883
##	2.182	11901	2	0.878	0.002807	0.872	0.883
##	2.185	11899	1	0.877	0.002808	0.872	0.883
##	2.190	11898	1	0.877	0.002808	0.872	0.883
##	2.198	11896	1	0.877	0.002809	0.872	0.883
##	2.204	11895	1	0.877	0.002810	0.872	0.883
##	2.209	11894	1	0.877	0.002811	0.872	0.883
##	2.212	11893	1	0.877	0.002811	0.871	0.883
##	2.215	11891	3	0.877	0.002813	0.871	0.882
##	2.220	11888	2	0.877	0.002815	0.871	0.882
##	2.223	11886	1	0.877	0.002816	0.871	0.882
##	2.229	11885	1	0.877	0.002816	0.871	0.882
##	2.237	11884	3	0.876	0.002819	0.871	0.882
##	2.242	11881	3	0.876	0.002821	0.871	0.882
##	2.245	11878	4	0.876	0.002824	0.870	0.881
##	2.251	11874	1	0.876	0.002824	0.870	0.881
##	2.256	11873	2	0.876	0.002826	0.870	0.881
##	2.259	11871	2	0.876	0.002827	0.870	0.881
##	2.264	11868	1	0.875	0.002828	0.870	0.881
##	2.270	11867	1	0.875	0.002829	0.870	0.881
##	2.272	11866	1	0.875	0.002829	0.870	0.881
##	2.275	11865	1	0.875	0.002830	0.870	0.881
##	2.283	11863	1	0.875	0.002831	0.869	0.881
##	2.286	11862	1	0.875	0.002832	0.869	0.880
##	2.292	11861	1	0.875	0.002832	0.869	0.880
##	2.300	11860	3	0.875	0.002834	0.869	0.880
##	2.313	11857	2	0.875	0.002836	0.869	0.880
##	2.316	11855	1	0.875	0.002837	0.869	0.880
##	2.319	11854	1	0.874	0.002837	0.869	0.880
##	2.322	11853	1	0.874	0.002838	0.869	0.880
##	2.324	11852	2	0.874	0.002840	0.869	0.880
##	2.327	11850	2	0.874	0.002841	0.868	0.880
##	2.335	11848	1	0.874	0.002842	0.868	0.879
##	2.338	11847	2	0.874	0.002843	0.868	0.879
##	2.346	11845	2	0.874	0.002845	0.868	0.879
##	2.352	11843	2	0.874	0.002846	0.868	0.879
##	2.355	11841	1	0.874	0.002847	0.868	0.879
##	2.360	11840	1	0.873	0.002847	0.868	0.879
##	2.366	11837	1	0.873	0.002848	0.868	0.879
##	2.382	11835	2	0.873	0.002850	0.868	0.879

##	2.387	11833	1	0.873	0.002850	0.867	0.879
##	2.390	11832	2	0.873	0.002852	0.867	0.878
##	2.398	11830	1	0.873	0.002852	0.867	0.878
##	2.401	11829	3	0.873	0.002855	0.867	0.878
##	2.404	11826	1	0.873	0.002855	0.867	0.878
##	2.407	11825	2	0.872	0.002857	0.867	0.878
##	2.412	11823	2	0.872	0.002858	0.867	0.878
##	2.418	11820	3	0.872	0.002860	0.866	0.878
##	2.420	11817	1	0.872	0.002861	0.866	0.878
##	2.423	11816	1	0.872	0.002862	0.866	0.877
##	2.428	11815	1	0.872	0.002862	0.866	0.877
##	2.431	11813	1	0.872	0.002863	0.866	0.877
##	2.437	11812	1	0.872	0.002864	0.866	0.877
##	2.439	11811	2	0.872	0.002865	0.866	0.877
##	2.442	11809	1	0.872	0.002866	0.866	0.877
##	2.450	11808	2	0.871	0.002867	0.866	0.877
##	2.453	11806	4	0.871	0.002870	0.865	0.877
##	2.459	11801	2	0.871	0.002872	0.865	0.876
##	2.464	11799	1	0.871	0.002872	0.865	0.876
##	2.475	11798	1	0.871	0.002873	0.865	0.876
##	2.478	11797	2	0.871	0.002874	0.865	0.876
##	2.480	11795	1	0.871	0.002875	0.865	0.876
##	2.483	11794	1	0.870	0.002876	0.865	0.876
##	2.486	11793	1	0.870	0.002876	0.865	0.876
##	2.489	11792	1	0.870	0.002877	0.865	0.876
##	2.491	11791	1	0.870	0.002878	0.865	0.876
##	2.500	11790	2	0.870	0.002879	0.864	0.876
##	2.502	11788	1	0.870	0.002880	0.864	0.876
##	2.505	11787	1	0.870	0.002881	0.864	0.876
##	2.508	11786	2	0.870	0.002882	0.864	0.875
##	2.513	11783	1	0.870	0.002883	0.864	0.875
##	2.522	11781	1	0.870	0.002884	0.864	0.875
##	2.524	11779	3	0.869	0.002886	0.864	0.875
##	2.527	11776	2	0.869	0.002887	0.864	0.875
##	2.543	11774	2	0.869	0.002888	0.863	0.875
##	2.560	11772	1	0.869	0.002889	0.863	0.875
##	2.563	11770	1	0.869	0.002890	0.863	0.875
##	2.568	11768	2	0.869	0.002891	0.863	0.874
##	2.574	11766	1	0.869	0.002892	0.863	0.874
##	2.579	11765	1	0.869	0.002893	0.863	0.874
##	2.582	11764	2	0.869	0.002894	0.863	0.874
##	2.587	11762	1	0.868	0.002895	0.863	0.874
##	2.590	11761	1	0.868	0.002895	0.863	0.874
##	2.593	11760	1	0.868	0.002896	0.863	0.874
##	2.595	11759	2	0.868	0.002897	0.862	0.874
##	2.598	11757	1	0.868	0.002898	0.862	0.874

##	2.601	11756	1	0.868	0.002899	0.862	0.874
##	2.604	11755	1	0.868	0.002900	0.862	0.874
##	2.609	11753	1	0.868	0.002900	0.862	0.873
##	2.617	11751	2	0.868	0.002902	0.862	0.873
##	2.623	11748	3	0.868	0.002904	0.862	0.873
##	2.634	11745	1	0.867	0.002904	0.862	0.873
##	2.639	11744	1	0.867	0.002905	0.862	0.873
##	2.642	11743	1	0.867	0.002906	0.861	0.873
##	2.645	11742	1	0.867	0.002906	0.861	0.873
##	2.650	11741	1	0.867	0.002907	0.861	0.873
##	2.656	11740	2	0.867	0.002909	0.861	0.873
##	2.661	11738	1	0.867	0.002909	0.861	0.873
##	2.680	11736	1	0.867	0.002910	0.861	0.872
##	2.689	11735	2	0.867	0.002911	0.861	0.872
##	2.700	11732	2	0.867	0.002913	0.861	0.872
##	2.705	11730	4	0.866	0.002915	0.860	0.872
##	2.708	11725	1	0.866	0.002916	0.860	0.872
##	2.710	11724	1	0.866	0.002917	0.860	0.872
##	2.713	11723	2	0.866	0.002918	0.860	0.872
##	2.716	11720	1	0.866	0.002919	0.860	0.872
##	2.724	11719	1	0.866	0.002920	0.860	0.871
##	2.730	11718	1	0.866	0.002920	0.860	0.871
##	2.732	11717	2	0.866	0.002922	0.860	0.871
##	2.735	11715	1	0.866	0.002922	0.860	0.871
##	2.738	11714	1	0.865	0.002923	0.860	0.871
##	2.743	11713	2	0.865	0.002924	0.859	0.871
##	2.752	11711	1	0.865	0.002925	0.859	0.871
##	2.757	11710	2	0.865	0.002926	0.859	0.871
##	2.760	11708	3	0.865	0.002928	0.859	0.870
##	2.762	11705	4	0.865	0.002931	0.859	0.870
##	2.768	11701	4	0.864	0.002934	0.858	0.870
##	2.771	11697	1	0.864	0.002935	0.858	0.870
##	2.776	11696	3	0.864	0.002937	0.858	0.870
##	2.779	11693	1	0.864	0.002937	0.858	0.870
##	2.787	11692	1	0.864	0.002938	0.858	0.869
##	2.790	11691	1	0.864	0.002939	0.858	0.869
##	2.795	11690	1	0.864	0.002939	0.858	0.869
##	2.801	11689	1	0.864	0.002940	0.858	0.869
##	2.804	11688	2	0.863	0.002941	0.858	0.869
##	2.806	11686	2	0.863	0.002943	0.857	0.869
##	2.809	11684	1	0.863	0.002943	0.857	0.869
##	2.815	11682	1	0.863	0.002944	0.857	0.869
##	2.817	11681	2	0.863	0.002945	0.857	0.869
##	2.820	11678	1	0.863	0.002946	0.857	0.869
##	2.823	11677	1	0.863	0.002947	0.857	0.869
##	2.828	11676	2	0.863	0.002948	0.857	0.868

##	2.834	11674	3	0.863	0.002950	0.857	0.868
##	2.836	11671	1	0.862	0.002951	0.857	0.868
##	2.842	11670	1	0.862	0.002951	0.856	0.868
##	2.845	11669	2	0.862	0.002953	0.856	0.868
##	2.850	11667	1	0.862	0.002953	0.856	0.868
##	2.864	11665	2	0.862	0.002955	0.856	0.868
##	2.872	11663	1	0.862	0.002955	0.856	0.868
##	2.875	11662	1	0.862	0.002956	0.856	0.868
##	2.880	11661	2	0.862	0.002958	0.856	0.867
##	2.883	11659	1	0.862	0.002958	0.856	0.867
##	2.888	11658	1	0.862	0.002959	0.856	0.867
##	2.894	11657	1	0.861	0.002960	0.856	0.867
##	2.897	11656	1	0.861	0.002960	0.855	0.867
##	2.899	11654	1	0.861	0.002961	0.855	0.867
##	2.902	11653	2	0.861	0.002962	0.855	0.867
##	2.908	11650	1	0.861	0.002963	0.855	0.867
##	2.910	11649	2	0.861	0.002964	0.855	0.867
##	2.924	11645	1	0.861	0.002965	0.855	0.867
##	2.932	11644	2	0.861	0.002966	0.855	0.866
##	2.935	11642	1	0.861	0.002967	0.855	0.866
##	2.943	11641	1	0.861	0.002968	0.855	0.866
##	2.946	11640	1	0.861	0.002968	0.855	0.866
##	2.949	11639	1	0.860	0.002969	0.855	0.866
##	2.954	11638	2	0.860	0.002970	0.854	0.866
##	2.957	11636	1	0.860	0.002971	0.854	0.866
##	2.962	11635	3	0.860	0.002973	0.854	0.866
##	2.965	11632	2	0.860	0.002974	0.854	0.866
##	2.968	11630	2	0.860	0.002975	0.854	0.865
##	2.976	11627	1	0.860	0.002976	0.854	0.865
##	2.979	11625	2	0.859	0.002977	0.854	0.865
##	2.982	11623	3	0.859	0.002979	0.853	0.865
##	2.984	11620	1	0.859	0.002980	0.853	0.865
##	2.995	11619	2	0.859	0.002981	0.853	0.865
##	2.998	11617	3	0.859	0.002983	0.853	0.865
##	3.001	11614	1	0.859	0.002984	0.853	0.864
##	3.003	11613	2	0.859	0.002985	0.853	0.864
##	3.006	11611	1	0.859	0.002986	0.853	0.864
##	3.012	11610	1	0.858	0.002987	0.852	0.864
##	3.014	11609	4	0.858	0.002989	0.852	0.864
##	3.017	11605	2	0.858	0.002991	0.852	0.864
##	3.020	11603	1	0.858	0.002991	0.852	0.864
##	3.031	11601	3	0.858	0.002993	0.852	0.863
##	3.034	11598	1	0.858	0.002994	0.852	0.863
##	3.036	11597	1	0.858	0.002995	0.852	0.863
##	3.039	11596	1	0.857	0.002995	0.851	0.863
##	3.047	11594	2	0.857	0.002997	0.851	0.863

##	3.050	11592	1	0.857	0.002997	0.851	0.863
##	3.053	11591	2	0.857	0.002999	0.851	0.863
##	3.069	11588	2	0.857	0.003000	0.851	0.863
##	3.072	11586	3	0.857	0.003002	0.851	0.863
##	3.077	11583	2	0.857	0.003003	0.851	0.862
##	3.080	11581	2	0.856	0.003004	0.850	0.862
##	3.091	11577	1	0.856	0.003005	0.850	0.862
##	3.097	11576	1	0.856	0.003006	0.850	0.862
##	3.099	11575	1	0.856	0.003006	0.850	0.862
##	3.102	11574	1	0.856	0.003007	0.850	0.862
##	3.107	11573	1	0.856	0.003008	0.850	0.862
##	3.113	11572	1	0.856	0.003008	0.850	0.862
##	3.118	11571	1	0.856	0.003009	0.850	0.862
##	3.121	11570	2	0.856	0.003010	0.850	0.862
##	3.124	11568	1	0.856	0.003011	0.850	0.861
##	3.127	11567	2	0.856	0.003012	0.850	0.861
##	3.135	11565	2	0.855	0.003013	0.849	0.861
##	3.138	11563	3	0.855	0.003015	0.849	0.861
##	3.140	11560	1	0.855	0.003016	0.849	0.861
##	3.146	11559	1	0.855	0.003017	0.849	0.861
##	3.149	11558	1	0.855	0.003017	0.849	0.861
##	3.159	11556	2	0.855	0.003019	0.849	0.861
##	3.162	11554	1	0.855	0.003019	0.849	0.861
##	3.165	11552	1	0.855	0.003020	0.849	0.860
##	3.170	11551	1	0.855	0.003021	0.849	0.860
##	3.173	11550	1	0.855	0.003021	0.848	0.860
##	3.176	11549	1	0.854	0.003022	0.848	0.860
##	3.184	11548	3	0.854	0.003024	0.848	0.860
##	3.187	11545	2	0.854	0.003025	0.848	0.860
##	3.195	11543	1	0.854	0.003026	0.848	0.860
##	3.198	11541	1	0.854	0.003026	0.848	0.860
##	3.201	11540	1	0.854	0.003027	0.848	0.860
##	3.211	11538	1	0.854	0.003028	0.848	0.860
##	3.214	11537	2	0.854	0.003029	0.848	0.859
##	3.220	11535	4	0.853	0.003032	0.847	0.859
##	3.228	11530	1	0.853	0.003032	0.847	0.859
##	3.233	11528	1	0.853	0.003033	0.847	0.859
##	3.236	11527	2	0.853	0.003034	0.847	0.859
##	3.247	11525	2	0.853	0.003035	0.847	0.859
##	3.253	11523	1	0.853	0.003036	0.847	0.859
##	3.266	11522	2	0.853	0.003037	0.847	0.859
##	3.280	11520	1	0.853	0.003038	0.847	0.858
##	3.283	11519	1	0.853	0.003039	0.846	0.858
##	3.285	11518	2	0.852	0.003040	0.846	0.858
##	3.288	11516	2	0.852	0.003041	0.846	0.858
##	3.291	11514	1	0.852	0.003042	0.846	0.858

##	3.296	11511	1	0.852	0.003042	0.846	0.858
##	3.310	11510	1	0.852	0.003043	0.846	0.858
##	3.313	11509	1	0.852	0.003044	0.846	0.858
##	3.324	11508	1	0.852	0.003044	0.846	0.858
##	3.326	11507	2	0.852	0.003046	0.846	0.858
##	3.340	11505	1	0.852	0.003046	0.846	0.857
##	3.343	11504	1	0.852	0.003047	0.845	0.857
##	3.346	11503	2	0.851	0.003048	0.845	0.857
##	3.348	11501	1	0.851	0.003049	0.845	0.857
##	3.354	11500	1	0.851	0.003049	0.845	0.857
##	3.357	11499	1	0.851	0.003050	0.845	0.857
##	3.359	11498	1	0.851	0.003051	0.845	0.857
##	3.368	11497	2	0.851	0.003052	0.845	0.857
##	3.370	11494	1	0.851	0.003053	0.845	0.857
##	3.373	11492	1	0.851	0.003053	0.845	0.857
##	3.379	11491	1	0.851	0.003054	0.845	0.857
##	3.384	11489	1	0.851	0.003054	0.845	0.857
##	3.387	11488	1	0.851	0.003055	0.844	0.856
##	3.395	11487	1	0.851	0.003056	0.844	0.856
##	3.398	11486	1	0.850	0.003056	0.844	0.856
##	3.406	11485	1	0.850	0.003057	0.844	0.856
##	3.409	11484	1	0.850	0.003058	0.844	0.856
##	3.414	11483	2	0.850	0.003059	0.844	0.856
##	3.420	11481	1	0.850	0.003059	0.844	0.856
##	3.425	11480	1	0.850	0.003060	0.844	0.856
##	3.431	11479	1	0.850	0.003061	0.844	0.856
##	3.436	11478	2	0.850	0.003062	0.844	0.856
##	3.441	11476	1	0.850	0.003063	0.844	0.856
##	3.447	11475	1	0.850	0.003063	0.844	0.856
##	3.452	11474	1	0.850	0.003064	0.843	0.855
##	3.455	11473	2	0.849	0.003065	0.843	0.855
##	3.463	11471	1	0.849	0.003066	0.843	0.855
##	3.472	11470	1	0.849	0.003066	0.843	0.855
##	3.477	11469	1	0.849	0.003067	0.843	0.855
##	3.483	11468	1	0.849	0.003068	0.843	0.855
##	3.491	11467	1	0.849	0.003068	0.843	0.855
##	3.499	11466	1	0.849	0.003069	0.843	0.855
##	3.502	11465	2	0.849	0.003070	0.843	0.855
##	3.510	11463	1	0.849	0.003071	0.843	0.855
##	3.513	11461	1	0.849	0.003071	0.843	0.855
##	3.515	11460	1	0.849	0.003072	0.842	0.855
##	3.518	11459	1	0.849	0.003073	0.842	0.854
##	3.521	11458	2	0.848	0.003074	0.842	0.854
##	3.524	11456	1	0.848	0.003074	0.842	0.854
##	3.543	11454	3	0.848	0.003076	0.842	0.854
##	3.551	11451	2	0.848	0.003078	0.842	0.854

##	3.556	11449	1	0.848	0.003078	0.842	0.854
##	3.559	11448	2	0.848	0.003079	0.842	0.854
##	3.562	11446	2	0.848	0.003081	0.841	0.853
##	3.565	11444	1	0.847	0.003081	0.841	0.853
##	3.567	11443	1	0.847	0.003082	0.841	0.853
##	3.570	11442	1	0.847	0.003083	0.841	0.853
##	3.589	11439	1	0.847	0.003083	0.841	0.853
##	3.606	11436	1	0.847	0.003084	0.841	0.853
##	3.608	11435	1	0.847	0.003084	0.841	0.853
##	3.611	11434	1	0.847	0.003085	0.841	0.853
##	3.628	11433	1	0.847	0.003086	0.841	0.853
##	3.633	11432	1	0.847	0.003086	0.841	0.853
##	3.639	11431	2	0.847	0.003088	0.841	0.853
##	3.652	11428	1	0.847	0.003088	0.841	0.853
##	3.655	11426	2	0.847	0.003089	0.840	0.852
##	3.658	11422	1	0.846	0.003090	0.840	0.852
##	3.666	11421	1	0.846	0.003091	0.840	0.852
##	3.682	11420	2	0.846	0.003092	0.840	0.852
##	3.713	11417	1	0.846	0.003092	0.840	0.852
##	3.715	11415	2	0.846	0.003094	0.840	0.852
##	3.721	11413	1	0.846	0.003094	0.840	0.852
##	3.723	11412	2	0.846	0.003096	0.840	0.852
##	3.751	11408	1	0.846	0.003096	0.840	0.852
##	3.756	11407	1	0.846	0.003097	0.839	0.852
##	3.759	11406	1	0.846	0.003097	0.839	0.852
##	3.762	11405	1	0.845	0.003098	0.839	0.851
##	3.767	11403	1	0.845	0.003099	0.839	0.851
##	3.770	11402	2	0.845	0.003100	0.839	0.851
##	3.773	11400	1	0.845	0.003100	0.839	0.851
##	3.784	11399	1	0.845	0.003101	0.839	0.851
##	3.789	11398	1	0.845	0.003102	0.839	0.851
##	3.803	11396	1	0.845	0.003102	0.839	0.851
##	3.817	11394	1	0.845	0.003103	0.839	0.851
##	3.819	11393	1	0.845	0.003104	0.839	0.851
##	3.825	11392	1	0.845	0.003104	0.839	0.851
##	3.830	11390	2	0.845	0.003105	0.838	0.851
##	3.833	11388	2	0.844	0.003107	0.838	0.850
##	3.836	11386	1	0.844	0.003107	0.838	0.850
##	3.847	11385	1	0.844	0.003108	0.838	0.850
##	3.852	11384	1	0.844	0.003108	0.838	0.850
##	3.855	11383	1	0.844	0.003109	0.838	0.850
##	3.858	11382	2	0.844	0.003110	0.838	0.850
##	3.860	11380	1	0.844	0.003111	0.838	0.850
##	3.874	11378	1	0.844	0.003112	0.838	0.850
##	3.877	11377	1	0.844	0.003112	0.838	0.850
##	3.910	11376	2	0.844	0.003113	0.837	0.850

##	3.915	11373	1	0.844	0.003114	0.837	0.850
##	3.921	11372	1	0.843	0.003115	0.837	0.849
##	3.929	11371	1	0.843	0.003115	0.837	0.849
##	3.937	11370	1	0.843	0.003116	0.837	0.849
##	3.953	11368	1	0.843	0.003116	0.837	0.849
##	3.956	11367	1	0.843	0.003117	0.837	0.849
##	3.959	11366	1	0.843	0.003118	0.837	0.849
##	3.962	11365	1	0.843	0.003118	0.837	0.849
##	3.964	11363	1	0.843	0.003119	0.837	0.849
##	3.967	11362	2	0.843	0.003120	0.837	0.849
##	3.973	11360	2	0.843	0.003121	0.836	0.849
##	3.978	11357	1	0.843	0.003122	0.836	0.849
##	3.981	11356	1	0.843	0.003122	0.836	0.849
##	3.984	11355	1	0.842	0.003123	0.836	0.848
##	3.986	11354	1	0.842	0.003124	0.836	0.848
##	4.000	11353	1	0.842	0.003124	0.836	0.848
##	4.003	11352	1	0.842	0.003125	0.836	0.848
##	4.005	11351	1	0.842	0.003125	0.836	0.848
##	4.008	11350	1	0.842	0.003126	0.836	0.848
##	4.011	11349	1	0.842	0.003127	0.836	0.848
##	4.014	11348	1	0.842	0.003127	0.836	0.848
##	4.019	11347	1	0.842	0.003128	0.836	0.848
##	4.022	11346	1	0.842	0.003129	0.836	0.848
##	4.025	11345	2	0.842	0.003130	0.835	0.848
##	4.030	11342	2	0.841	0.003131	0.835	0.848
##	4.036	11340	1	0.841	0.003132	0.835	0.847
##	4.038	11339	1	0.841	0.003132	0.835	0.847
##	4.041	11337	1	0.841	0.003133	0.835	0.847
##	4.044	11335	1	0.841	0.003133	0.835	0.847
##	4.049	11333	2	0.841	0.003135	0.835	0.847
##	4.052	11331	2	0.841	0.003136	0.835	0.847
##	4.055	11329	1	0.841	0.003136	0.835	0.847
##	4.057	11328	1	0.841	0.003137	0.834	0.847
##	4.071	11326	1	0.841	0.003138	0.834	0.847
##	4.077	11325	1	0.841	0.003138	0.834	0.847
##	4.085	11324	2	0.840	0.003139	0.834	0.846
##	4.088	11322	1	0.840	0.003140	0.834	0.846
##	4.093	11321	1	0.840	0.003141	0.834	0.846
##	4.101	11320	2	0.840	0.003142	0.834	0.846
##	4.107	11318	1	0.840	0.003142	0.834	0.846
##	4.118	11317	2	0.840	0.003144	0.834	0.846
##	4.126	11314	1	0.840	0.003144	0.834	0.846
##	4.129	11313	1	0.840	0.003145	0.834	0.846
##	4.145	11312	1	0.840	0.003145	0.833	0.846
##	4.151	11310	2	0.840	0.003147	0.833	0.846
##	4.164	11308	1	0.839	0.003147	0.833	0.846

##	4.167	11307	3	0.839	0.003149	0.833	0.845
##	4.186	11304	1	0.839	0.003150	0.833	0.845
##	4.189	11303	1	0.839	0.003150	0.833	0.845
##	4.208	11301	1	0.839	0.003151	0.833	0.845
##	4.214	11300	1	0.839	0.003151	0.833	0.845
##	4.225	11299	2	0.839	0.003153	0.833	0.845
##	4.227	11297	1	0.839	0.003153	0.832	0.845
##	4.235	11296	2	0.839	0.003154	0.832	0.845
##	4.244	11294	1	0.839	0.003155	0.832	0.845
##	4.246	11293	1	0.838	0.003155	0.832	0.845
##	4.252	11292	1	0.838	0.003156	0.832	0.844
##	4.255	11291	1	0.838	0.003157	0.832	0.844
##	4.260	11290	1	0.838	0.003157	0.832	0.844
##	4.266	11288	1	0.838	0.003158	0.832	0.844
##	4.268	11287	1	0.838	0.003158	0.832	0.844
##	4.277	11286	1	0.838	0.003159	0.832	0.844
##	4.279	11285	1	0.838	0.003160	0.832	0.844
##	4.282	11284	1	0.838	0.003160	0.832	0.844
##	4.285	11283	1	0.838	0.003161	0.831	0.844
##	4.296	11282	1	0.838	0.003161	0.831	0.844
##	4.315	11280	3	0.837	0.003163	0.831	0.844
##	4.323	11277	1	0.837	0.003164	0.831	0.843
##	4.342	11275	2	0.837	0.003165	0.831	0.843
##	4.345	11273	1	0.837	0.003166	0.831	0.843
##	4.353	11272	1	0.837	0.003166	0.831	0.843
##	4.364	11271	1	0.837	0.003167	0.831	0.843
##	4.367	11270	2	0.837	0.003168	0.831	0.843
##	4.381	11268	2	0.837	0.003169	0.830	0.843
##	4.392	11266	2	0.837	0.003170	0.830	0.843
##	4.402	11264	2	0.836	0.003171	0.830	0.843
##	4.405	11262	1	0.836	0.003172	0.830	0.842
##	4.408	11261	2	0.836	0.003173	0.830	0.842
##	4.411	11259	1	0.836	0.003174	0.830	0.842
##	4.419	11258	1	0.836	0.003174	0.830	0.842
##	4.427	11257	1	0.836	0.003175	0.830	0.842
##	4.430	11256	1	0.836	0.003176	0.830	0.842
##	4.433	11255	1	0.836	0.003176	0.830	0.842
##	4.435	11254	1	0.836	0.003177	0.829	0.842
##	4.441	11253	1	0.836	0.003177	0.829	0.842
##	4.444	11252	1	0.836	0.003178	0.829	0.842
##	4.446	11251	3	0.835	0.003180	0.829	0.842
##	4.449	11248	1	0.835	0.003180	0.829	0.841
##	4.452	11247	1	0.835	0.003181	0.829	0.841
##	4.454	11246	1	0.835	0.003181	0.829	0.841
##	4.468	11245	1	0.835	0.003182	0.829	0.841
##	4.476	11243	1	0.835	0.003183	0.829	0.841

##	4.479	11242	1	0.835	0.003183	0.829	0.841
##	4.485	11241	2	0.835	0.003184	0.828	0.841
##	4.487	11239	1	0.835	0.003185	0.828	0.841
##	4.498	11238	1	0.835	0.003185	0.828	0.841
##	4.501	11237	1	0.835	0.003186	0.828	0.841
##	4.507	11235	1	0.835	0.003187	0.828	0.841
##	4.509	11234	1	0.834	0.003187	0.828	0.841
##	4.512	11233	1	0.834	0.003188	0.828	0.840
##	4.528	11231	1	0.834	0.003188	0.828	0.840
##	4.545	11230	2	0.834	0.003190	0.828	0.840
##	4.550	11228	1	0.834	0.003190	0.828	0.840
##	4.556	11227	1	0.834	0.003191	0.828	0.840
##	4.572	11226	2	0.834	0.003192	0.827	0.840
##	4.575	11224	1	0.834	0.003192	0.827	0.840
##	4.578	11223	1	0.834	0.003193	0.827	0.840
##	4.580	11222	2	0.834	0.003194	0.827	0.840
##	4.586	11219	1	0.833	0.003195	0.827	0.840
##	4.591	11217	1	0.833	0.003195	0.827	0.840
##	4.597	11216	1	0.833	0.003196	0.827	0.839
##	4.608	11215	1	0.833	0.003197	0.827	0.839
##	4.616	11214	1	0.833	0.003197	0.827	0.839
##	4.621	11213	1	0.833	0.003198	0.827	0.839
##	4.624	11212	1	0.833	0.003198	0.827	0.839
##	4.627	11211	1	0.833	0.003199	0.827	0.839
##	4.630	11210	1	0.833	0.003199	0.826	0.839
##	4.643	11208	1	0.833	0.003200	0.826	0.839
##	4.663	11207	1	0.833	0.003201	0.826	0.839
##	4.665	11206	1	0.833	0.003201	0.826	0.839
##	4.671	11205	1	0.833	0.003202	0.826	0.839
##	4.684	11204	1	0.832	0.003202	0.826	0.839
##	4.687	11203	1	0.832	0.003203	0.826	0.839
##	4.695	11202	1	0.832	0.003203	0.826	0.839
##	4.701	11201	1	0.832	0.003204	0.826	0.838
##	4.709	11200	2	0.832	0.003205	0.826	0.838
##	4.715	11198	1	0.832	0.003206	0.826	0.838
##	4.723	11197	1	0.832	0.003206	0.826	0.838
##	4.736	11196	1	0.832	0.003207	0.826	0.838
##	4.742	11195	1	0.832	0.003207	0.825	0.838
##	4.745	11194	2	0.832	0.003209	0.825	0.838
##	4.753	11192	1	0.832	0.003209	0.825	0.838
##	4.756	11191	1	0.832	0.003210	0.825	0.838
##	4.764	11190	1	0.831	0.003210	0.825	0.838
##	4.772	11189	1	0.831	0.003211	0.825	0.838
##	4.780	11188	1	0.831	0.003211	0.825	0.837
##	4.783	11187	1	0.831	0.003212	0.825	0.837
##	4.794	11185	1	0.831	0.003213	0.825	0.837

##	4.797	11183	1	0.831	0.003213	0.825	0.837
##	4.799	11182	1	0.831	0.003214	0.825	0.837
##	4.802	11181	1	0.831	0.003214	0.825	0.837
##	4.816	11180	2	0.831	0.003215	0.824	0.837
##	4.821	11178	1	0.831	0.003216	0.824	0.837
##	4.827	11176	1	0.831	0.003217	0.824	0.837
##	4.846	11175	2	0.830	0.003218	0.824	0.837
##	4.851	11173	1	0.830	0.003218	0.824	0.837
##	4.862	11172	1	0.830	0.003219	0.824	0.837
##	4.865	11171	1	0.830	0.003219	0.824	0.836
##	4.871	11170	1	0.830	0.003220	0.824	0.836
##	4.873	11169	2	0.830	0.003221	0.824	0.836
##	4.876	11167	1	0.830	0.003222	0.824	0.836
##	4.879	11166	3	0.830	0.003223	0.823	0.836
##	4.884	11163	1	0.830	0.003224	0.823	0.836
##	4.887	11162	1	0.830	0.003225	0.823	0.836
##	4.893	11161	1	0.830	0.003225	0.823	0.836
##	4.917	11160	3	0.829	0.003227	0.823	0.836
##	4.925	11156	1	0.829	0.003227	0.823	0.835
##	4.928	11155	2	0.829	0.003229	0.823	0.835
##	4.942	11152	3	0.829	0.003230	0.822	0.835
##	4.950	11149	1	0.829	0.003231	0.822	0.835
##	4.953	11148	1	0.829	0.003231	0.822	0.835
##	4.964	11147	1	0.829	0.003232	0.822	0.835
##	4.969	11146	1	0.829	0.003233	0.822	0.835
##	4.988	11144	1	0.828	0.003233	0.822	0.835
##	4.997	11143	1	0.828	0.003234	0.822	0.835
##	5.008	11142	1	0.828	0.003234	0.822	0.835
##	5.021	11140	1	0.828	0.003235	0.822	0.834
##	5.027	11139	1	0.828	0.003235	0.822	0.834
##	5.029	11138	1	0.828	0.003236	0.822	0.834
##	5.040	11136	1	0.828	0.003236	0.822	0.834
##	5.057	11135	1	0.828	0.003237	0.822	0.834
##	5.060	11134	1	0.828	0.003238	0.821	0.834
##	5.076	11133	1	0.828	0.003238	0.821	0.834
##	5.087	11132	2	0.828	0.003239	0.821	0.834
##	5.090	11130	2	0.828	0.003240	0.821	0.834
##	5.092	11128	1	0.827	0.003241	0.821	0.834
##	5.098	11127	1	0.827	0.003242	0.821	0.834
##	5.112	11126	2	0.827	0.003243	0.821	0.833
##	5.117	11124	1	0.827	0.003243	0.821	0.833
##	5.120	11123	2	0.827	0.003244	0.821	0.833
##	5.131	11120	2	0.827	0.003245	0.820	0.833
##	5.158	11118	1	0.827	0.003246	0.820	0.833
##	5.161	11117	4	0.826	0.003248	0.820	0.833
##	5.164	11113	1	0.826	0.003249	0.820	0.833

##	5.166	11112	1	0.826	0.003249	0.820	0.833
##	5.175	11111	1	0.826	0.003250	0.820	0.833
##	5.177	11110	2	0.826	0.003251	0.820	0.832
##	5.183	11108	1	0.826	0.003252	0.820	0.832
##	5.191	11107	1	0.826	0.003252	0.819	0.832
##	5.196	11106	1	0.826	0.003253	0.819	0.832
##	5.199	11105	1	0.826	0.003253	0.819	0.832
##	5.207	11103	1	0.826	0.003254	0.819	0.832
##	5.210	11102	1	0.826	0.003254	0.819	0.832
##	5.218	11100	1	0.826	0.003255	0.819	0.832
##	5.243	11097	1	0.826	0.003256	0.819	0.832
##	5.265	11096	1	0.825	0.003256	0.819	0.832
##	5.268	11095	1	0.825	0.003257	0.819	0.832
##	5.290	11094	1	0.825	0.003257	0.819	0.832
##	5.295	11091	1	0.825	0.003258	0.819	0.831
##	5.300	11090	1	0.825	0.003258	0.819	0.831
##	5.306	11089	1	0.825	0.003259	0.819	0.831
##	5.309	11088	2	0.825	0.003260	0.818	0.831
##	5.325	11086	2	0.825	0.003261	0.818	0.831
##	5.328	11084	1	0.825	0.003262	0.818	0.831
##	5.336	11083	1	0.825	0.003262	0.818	0.831
##	5.350	11082	2	0.824	0.003263	0.818	0.831
##	5.352	11080	2	0.824	0.003264	0.818	0.831
##	5.355	11078	2	0.824	0.003266	0.818	0.830
##	5.402	11072	1	0.824	0.003266	0.818	0.830
##	5.432	11069	1	0.824	0.003267	0.818	0.830
##	5.437	11068	3	0.824	0.003268	0.817	0.830
##	5.443	11064	1	0.824	0.003269	0.817	0.830
##	5.459	11063	1	0.824	0.003269	0.817	0.830
##	5.462	11062	3	0.823	0.003271	0.817	0.830
##	5.465	11059	1	0.823	0.003272	0.817	0.830
##	5.467	11058	1	0.823	0.003272	0.817	0.830
##	5.484	11057	1	0.823	0.003273	0.817	0.830
##	5.487	11056	1	0.823	0.003273	0.817	0.829
##	5.495	11055	1	0.823	0.003274	0.817	0.829
##	5.498	11054	1	0.823	0.003274	0.816	0.829
##	5.517	11052	2	0.823	0.003275	0.816	0.829
##	5.528	11050	1	0.823	0.003276	0.816	0.829
##	5.530	11047	1	0.823	0.003277	0.816	0.829
##	5.536	11046	1	0.823	0.003277	0.816	0.829
##	5.544	11043	1	0.823	0.003278	0.816	0.829
##	5.547	11042	1	0.822	0.003278	0.816	0.829
##	5.552	11040	2	0.822	0.003279	0.816	0.829
##	5.558	11038	1	0.822	0.003280	0.816	0.829
##	5.561	11036	1	0.822	0.003280	0.816	0.828
##	5.563	11035	1	0.822	0.003281	0.816	0.828

##	5.566	11033	1	0.822	0.003281	0.815	0.828
##	5.577	11032	1	0.822	0.003282	0.815	0.828
##	5.580	11031	1	0.822	0.003283	0.815	0.828
##	5.582	11030	2	0.822	0.003284	0.815	0.828
##	5.585	11028	2	0.822	0.003285	0.815	0.828
##	5.588	11025	1	0.821	0.003285	0.815	0.828
##	5.596	11023	1	0.821	0.003286	0.815	0.828
##	5.604	11020	1	0.821	0.003286	0.815	0.828
##	5.610	11019	2	0.821	0.003288	0.815	0.828
##	5.615	11017	1	0.821	0.003288	0.815	0.827
##	5.626	11016	2	0.821	0.003289	0.814	0.827
##	5.656	11011	1	0.821	0.003290	0.814	0.827
##	5.665	11010	2	0.821	0.003291	0.814	0.827
##	5.687	11006	1	0.821	0.003291	0.814	0.827
##	5.722	11004	2	0.821	0.003292	0.814	0.827
##	5.725	11002	1	0.820	0.003293	0.814	0.827
##	5.728	11001	1	0.820	0.003294	0.814	0.827
##	5.730	11000	2	0.820	0.003295	0.814	0.827
##	5.749	10997	1	0.820	0.003295	0.814	0.826
##	5.760	10996	1	0.820	0.003296	0.814	0.826
##	5.780	10994	1	0.820	0.003296	0.813	0.826
##	5.782	10993	1	0.820	0.003297	0.813	0.826
##	5.793	10991	1	0.820	0.003297	0.813	0.826
##	5.802	10990	1	0.820	0.003298	0.813	0.826
##	5.829	10988	3	0.820	0.003300	0.813	0.826
##	5.845	10985	1	0.819	0.003300	0.813	0.826
##	5.848	10984	1	0.819	0.003301	0.813	0.826
##	5.854	10983	1	0.819	0.003301	0.813	0.826
##	5.859	10982	1	0.819	0.003302	0.813	0.826
##	5.873	10981	1	0.819	0.003302	0.813	0.826
##	5.881	10980	2	0.819	0.003303	0.812	0.825
##	5.884	10978	1	0.819	0.003304	0.812	0.825
##	5.892	10977	2	0.819	0.003305	0.812	0.825
##	5.897	10975	1	0.819	0.003305	0.812	0.825
##	5.911	10974	1	0.819	0.003306	0.812	0.825
##	5.922	10973	2	0.819	0.003307	0.812	0.825
##	5.925	10969	1	0.818	0.003308	0.812	0.825
##	5.930	10968	1	0.818	0.003308	0.812	0.825
##	5.933	10967	1	0.818	0.003309	0.812	0.825
##	5.938	10966	1	0.818	0.003309	0.812	0.825
##	5.941	10965	2	0.818	0.003310	0.811	0.824
##	5.949	10962	1	0.818	0.003311	0.811	0.824
##	5.952	10961	1	0.818	0.003311	0.811	0.824
##	5.963	10960	2	0.818	0.003312	0.811	0.824
##	5.977	10958	1	0.818	0.003313	0.811	0.824
##	5.982	10957	1	0.818	0.003314	0.811	0.824

##	6.004	10955	1	0.818	0.003314	0.811	0.824
##	6.012	10953	1	0.817	0.003315	0.811	0.824
##	6.026	10951	1	0.817	0.003315	0.811	0.824
##	6.045	10950	2	0.817	0.003316	0.811	0.824
##	6.051	10948	1	0.817	0.003317	0.811	0.824
##	6.059	10947	1	0.817	0.003317	0.810	0.823
##	6.070	10946	1	0.817	0.003318	0.810	0.823
##	6.075	10945	2	0.817	0.003319	0.810	0.823
##	6.078	10942	1	0.817	0.003319	0.810	0.823
##	6.105	10940	1	0.817	0.003320	0.810	0.823
##	6.125	10939	1	0.817	0.003321	0.810	0.823
##	6.127	10938	2	0.816	0.003322	0.810	0.823
##	6.141	10936	1	0.816	0.003322	0.810	0.823
##	6.146	10935	1	0.816	0.003323	0.810	0.823
##	6.160	10934	1	0.816	0.003323	0.810	0.823
##	6.179	10933	1	0.816	0.003324	0.810	0.823
##	6.182	10932	1	0.816	0.003324	0.809	0.823
##	6.201	10931	1	0.816	0.003325	0.809	0.822
##	6.207	10930	1	0.816	0.003325	0.809	0.822
##	6.226	10929	1	0.816	0.003326	0.809	0.822
##	6.237	10928	1	0.816	0.003326	0.809	0.822
##	6.240	10927	1	0.816	0.003327	0.809	0.822
##	6.245	10926	1	0.816	0.003327	0.809	0.822
##	6.248	10925	2	0.816	0.003329	0.809	0.822
##	6.251	10923	1	0.815	0.003329	0.809	0.822
##	6.261	10922	1	0.815	0.003330	0.809	0.822
##	6.275	10920	1	0.815	0.003330	0.809	0.822
##	6.278	10919	1	0.815	0.003331	0.809	0.822
##	6.297	10918	1	0.815	0.003331	0.809	0.822
##	6.308	10917	1	0.815	0.003332	0.808	0.821
##	6.333	10915	1	0.815	0.003332	0.808	0.821
##	6.346	10913	1	0.815	0.003333	0.808	0.821
##	6.349	10912	2	0.815	0.003334	0.808	0.821
##	6.363	10910	1	0.815	0.003334	0.808	0.821
##	6.366	10909	2	0.815	0.003335	0.808	0.821
##	6.376	10906	1	0.814	0.003336	0.808	0.821
##	6.385	10905	1	0.814	0.003337	0.808	0.821
##	6.393	10904	1	0.814	0.003337	0.808	0.821
##	6.398	10903	1	0.814	0.003338	0.808	0.821
##	6.437	10901	1	0.814	0.003338	0.808	0.821
##	6.439	10900	1	0.814	0.003339	0.807	0.821
##	6.448	10899	1	0.814	0.003339	0.807	0.820
##	6.456	10897	1	0.814	0.003340	0.807	0.820
##	6.464	10895	1	0.814	0.003340	0.807	0.820
##	6.467	10894	1	0.814	0.003341	0.807	0.820
##	6.470	10893	1	0.814	0.003341	0.807	0.820

##	6.491	10890	2	0.814	0.003342	0.807	0.820
##	6.511	10887	1	0.814	0.003343	0.807	0.820
##	6.516	10886	1	0.813	0.003343	0.807	0.820
##	6.522	10885	1	0.813	0.003344	0.807	0.820
##	6.530	10884	1	0.813	0.003344	0.807	0.820
##	6.552	10882	1	0.813	0.003345	0.807	0.820
##	6.554	10881	1	0.813	0.003346	0.806	0.820
##	6.563	10880	1	0.813	0.003346	0.806	0.820
##	6.568	10879	1	0.813	0.003347	0.806	0.819
##	6.585	10876	1	0.813	0.003347	0.806	0.819
##	6.593	10875	1	0.813	0.003348	0.806	0.819
##	6.595	10874	1	0.813	0.003348	0.806	0.819
##	6.601	10873	1	0.813	0.003349	0.806	0.819
##	6.615	10872	1	0.813	0.003349	0.806	0.819
##	6.617	10871	1	0.813	0.003350	0.806	0.819
##	6.639	10869	1	0.812	0.003350	0.806	0.819
##	6.642	10868	1	0.812	0.003351	0.806	0.819
##	6.664	10867	1	0.812	0.003351	0.806	0.819
##	6.691	10865	1	0.812	0.003352	0.806	0.819
##	6.697	10863	1	0.812	0.003352	0.805	0.819
##	6.702	10862	1	0.812	0.003353	0.805	0.819
##	6.727	10860	1	0.812	0.003353	0.805	0.818
##	6.730	10859	1	0.812	0.003354	0.805	0.818
##	6.732	10858	1	0.812	0.003354	0.805	0.818
##	6.754	10856	1	0.812	0.003355	0.805	0.818
##	6.765	10855	1	0.812	0.003355	0.805	0.818
##	6.773	10854	1	0.812	0.003356	0.805	0.818
##	6.795	10852	1	0.812	0.003357	0.805	0.818
##	6.801	10851	2	0.811	0.003358	0.805	0.818
##	6.809	10849	1	0.811	0.003358	0.805	0.818
##	6.828	10848	1	0.811	0.003359	0.805	0.818
##	6.861	10847	1	0.811	0.003359	0.804	0.818
##	6.864	10846	2	0.811	0.003360	0.804	0.818
##	6.877	10843	1	0.811	0.003361	0.804	0.817
##	6.880	10842	1	0.811	0.003361	0.804	0.817
##	6.886	10841	1	0.811	0.003362	0.804	0.817
##	6.888	10840	1	0.811	0.003362	0.804	0.817
##	6.908	10839	1	0.811	0.003363	0.804	0.817
##	6.913	10838	2	0.811	0.003364	0.804	0.817
##	6.916	10836	1	0.810	0.003364	0.804	0.817
##	6.924	10835	1	0.810	0.003365	0.804	0.817
##	6.938	10834	1	0.810	0.003365	0.804	0.817
##	6.957	10833	1	0.810	0.003366	0.804	0.817
##	6.960	10832	1	0.810	0.003366	0.803	0.817
##	6.965	10831	1	0.810	0.003367	0.803	0.817
##	6.976	10829	1	0.810	0.003367	0.803	0.816

##	6.979	10828	1	0.810	0.003368	0.803	0.816
##	6.987	10827	1	0.810	0.003369	0.803	0.816
##	6.992	10826	1	0.810	0.003369	0.803	0.816
##	7.020	10825	1	0.810	0.003370	0.803	0.816
##	7.039	10824	2	0.810	0.003371	0.803	0.816
##	7.050	10822	2	0.809	0.003372	0.803	0.816
##	7.061	10820	1	0.809	0.003372	0.803	0.816
##	7.086	10819	1	0.809	0.003373	0.803	0.816
##	7.110	10818	1	0.809	0.003373	0.802	0.816
##	7.113	10817	1	0.809	0.003374	0.802	0.816
##	7.116	10816	1	0.809	0.003374	0.802	0.816
##	7.127	10815	1	0.809	0.003375	0.802	0.815
##	7.129	10814	1	0.809	0.003375	0.802	0.815
##	7.159	10813	2	0.809	0.003376	0.802	0.815
##	7.173	10811	1	0.809	0.003377	0.802	0.815
##	7.176	10810	1	0.809	0.003377	0.802	0.815
##	7.187	10809	1	0.808	0.003378	0.802	0.815
##	7.192	10808	1	0.808	0.003378	0.802	0.815
##	7.206	10807	1	0.808	0.003379	0.802	0.815
##	7.225	10806	1	0.808	0.003379	0.802	0.815
##	7.231	10805	1	0.808	0.003380	0.801	0.815
##	7.274	10804	1	0.808	0.003380	0.801	0.815
##	7.288	10803	1	0.808	0.003381	0.801	0.815
##	7.302	10802	1	0.808	0.003381	0.801	0.814
##	7.305	10801	1	0.808	0.003382	0.801	0.814
##	7.329	10798	2	0.808	0.003383	0.801	0.814
##	7.343	10795	1	0.808	0.003384	0.801	0.814
##	7.354	10794	1	0.808	0.003384	0.801	0.814
##	7.357	10793	1	0.808	0.003385	0.801	0.814
##	7.387	10791	2	0.807	0.003386	0.801	0.814
##	7.392	10789	1	0.807	0.003386	0.801	0.814
##	7.395	10788	1	0.807	0.003387	0.800	0.814
##	7.428	10787	1	0.807	0.003387	0.800	0.814
##	7.436	10786	1	0.807	0.003388	0.800	0.814
##	7.441	10785	1	0.807	0.003388	0.800	0.814
##	7.444	10784	1	0.807	0.003389	0.800	0.813
##	7.452	10783	1	0.807	0.003389	0.800	0.813
##	7.458	10782	1	0.807	0.003390	0.800	0.813
##	7.483	10781	1	0.807	0.003390	0.800	0.813
##	7.504	10780	2	0.807	0.003391	0.800	0.813
##	7.507	10778	1	0.806	0.003392	0.800	0.813
##	7.518	10777	2	0.806	0.003393	0.800	0.813
##	7.521	10775	1	0.806	0.003393	0.799	0.813
##	7.535	10774	1	0.806	0.003394	0.799	0.813
##	7.581	10773	1	0.806	0.003394	0.799	0.813
##	7.592	10772	1	0.806	0.003395	0.799	0.813

##	7.617	10771	1	0.806	0.003395	0.799	0.813
##	7.639	10770	1	0.806	0.003396	0.799	0.812
##	7.644	10769	1	0.806	0.003396	0.799	0.812
##	7.677	10768	1	0.806	0.003397	0.799	0.812
##	7.691	10767	1	0.806	0.003397	0.799	0.812
##	7.693	10766	2	0.805	0.003398	0.799	0.812
##	7.713	10764	1	0.805	0.003399	0.799	0.812
##	7.754	10763	2	0.805	0.003400	0.799	0.812
##	7.773	10761	1	0.805	0.003400	0.798	0.812
##	7.778	10760	2	0.805	0.003401	0.798	0.812
##	7.789	10757	1	0.805	0.003402	0.798	0.812
##	7.800	10756	1	0.805	0.003402	0.798	0.811
##	7.803	10755	1	0.805	0.003403	0.798	0.811
##	7.811	10754	1	0.805	0.003403	0.798	0.811
##	7.836	10753	1	0.805	0.003404	0.798	0.811
##	7.841	10752	1	0.805	0.003404	0.798	0.811
##	7.844	10751	1	0.805	0.003405	0.798	0.811
##	7.877	10749	1	0.804	0.003405	0.798	0.811
##	7.896	10748	1	0.804	0.003406	0.798	0.811
##	7.907	10746	1	0.804	0.003406	0.798	0.811
##	7.915	10745	1	0.804	0.003407	0.797	0.811
##	7.956	10743	1	0.804	0.003407	0.797	0.811
##	8.038	10741	1	0.804	0.003408	0.797	0.811
##	8.041	10740	1	0.804	0.003408	0.797	0.811
##	8.044	10739	1	0.804	0.003409	0.797	0.811
##	8.052	10738	1	0.804	0.003409	0.797	0.810
##	8.071	10737	1	0.804	0.003410	0.797	0.810
##	8.077	10736	1	0.804	0.003410	0.797	0.810
##	8.088	10734	1	0.804	0.003411	0.797	0.810
##	8.090	10733	2	0.803	0.003412	0.797	0.810
##	8.110	10730	1	0.803	0.003412	0.797	0.810
##	8.145	10728	1	0.803	0.003413	0.797	0.810
##	8.156	10727	1	0.803	0.003414	0.796	0.810
##	8.183	10725	1	0.803	0.003414	0.796	0.810
##	8.211	10723	1	0.803	0.003415	0.796	0.810
##	8.227	10721	1	0.803	0.003415	0.796	0.810
##	8.246	10719	1	0.803	0.003416	0.796	0.810
##	8.249	10718	1	0.803	0.003416	0.796	0.809
##	8.263	10716	1	0.803	0.003417	0.796	0.809
##	8.285	10715	1	0.803	0.003417	0.796	0.809
##	8.298	10713	1	0.803	0.003418	0.796	0.809
##	8.323	10712	1	0.803	0.003418	0.796	0.809
##	8.381	10709	1	0.803	0.003419	0.796	0.809
##	8.383	10707	1	0.802	0.003419	0.796	0.809
##	8.389	10706	2	0.802	0.003420	0.795	0.809
##	8.427	10704	1	0.802	0.003421	0.795	0.809

##	8.446	10701	1	0.802	0.003421	0.795	0.809
##	8.485	10699	1	0.802	0.003422	0.795	0.809
##	8.504	10697	1	0.802	0.003422	0.795	0.809
##	8.520	10696	3	0.802	0.003424	0.795	0.808
##	8.531	10692	1	0.802	0.003424	0.795	0.808
##	8.534	10690	2	0.802	0.003425	0.795	0.808
##	8.575	10687	2	0.801	0.003426	0.795	0.808
##	8.594	10685	1	0.801	0.003427	0.794	0.808
##	8.627	10684	1	0.801	0.003427	0.794	0.808
##	8.652	10682	1	0.801	0.003428	0.794	0.808
##	8.657	10681	1	0.801	0.003428	0.794	0.808
##	8.660	10680	1	0.801	0.003429	0.794	0.808
##	8.717	10677	1	0.801	0.003429	0.794	0.808
##	8.723	10676	1	0.801	0.003430	0.794	0.807
##	8.731	10674	1	0.801	0.003430	0.794	0.807
##	8.742	10672	1	0.801	0.003431	0.794	0.807
##	8.747	10671	2	0.801	0.003432	0.794	0.807
##	8.764	10669	1	0.800	0.003432	0.794	0.807
##	8.769	10668	1	0.800	0.003433	0.794	0.807
##	8.794	10665	1	0.800	0.003433	0.793	0.807
##	8.838	10663	1	0.800	0.003434	0.793	0.807
##	8.860	10662	1	0.800	0.003434	0.793	0.807
##	8.884	10661	1	0.800	0.003435	0.793	0.807
##	8.920	10659	1	0.800	0.003435	0.793	0.807
##	8.936	10658	1	0.800	0.003436	0.793	0.807
##	8.953	10657	1	0.800	0.003436	0.793	0.807
##	8.961	10656	1	0.800	0.003437	0.793	0.806
##	8.964	10655	2	0.800	0.003438	0.793	0.806
##	9.018	10653	2	0.800	0.003439	0.793	0.806
##	9.029	10651	1	0.799	0.003439	0.793	0.806
##	9.068	10650	1	0.799	0.003440	0.793	0.806
##	9.084	10649	1	0.799	0.003440	0.792	0.806
##	9.103	10647	1	0.799	0.003441	0.792	0.806
##	9.131	10646	2	0.799	0.003441	0.792	0.806
##	9.133	10644	1	0.799	0.003442	0.792	0.806
##	9.142	10643	3	0.799	0.003443	0.792	0.805
##	9.175	10640	1	0.799	0.003444	0.792	0.805
##	9.216	10638	1	0.799	0.003444	0.792	0.805
##	9.235	10637	1	0.799	0.003445	0.792	0.805
##	9.238	10636	1	0.798	0.003445	0.792	0.805
##	9.246	10635	1	0.798	0.003446	0.792	0.805
##	9.279	10634	1	0.798	0.003446	0.791	0.805
##	9.284	10633	1	0.798	0.003447	0.791	0.805
##	9.300	10631	2	0.798	0.003448	0.791	0.805
##	9.309	10629	1	0.798	0.003448	0.791	0.805
##	9.328	10628	1	0.798	0.003449	0.791	0.805

##	9.344	10627	1	0.798	0.003449	0.791	0.805
##	9.405	10624	1	0.798	0.003450	0.791	0.804
##	9.437	10622	1	0.798	0.003450	0.791	0.804
##	9.467	10620	1	0.798	0.003451	0.791	0.804
##	9.533	10619	1	0.798	0.003451	0.791	0.804
##	9.541	10618	1	0.797	0.003452	0.791	0.804
##	9.561	10616	1	0.797	0.003452	0.791	0.804
##	9.599	10614	1	0.797	0.003453	0.790	0.804
##	9.610	10613	1	0.797	0.003453	0.790	0.804
##	9.621	10612	1	0.797	0.003454	0.790	0.804
##	9.626	10611	1	0.797	0.003454	0.790	0.804
##	9.637	10610	1	0.797	0.003455	0.790	0.804
##	9.643	10608	1	0.797	0.003455	0.790	0.804
##	9.676	10606	1	0.797	0.003456	0.790	0.804
##	9.711	10603	1	0.797	0.003456	0.790	0.803
##	9.717	10602	1	0.797	0.003457	0.790	0.803
##	9.725	10601	1	0.797	0.003457	0.790	0.803
##	9.744	10600	1	0.797	0.003458	0.790	0.803
##	9.758	10598	1	0.796	0.003458	0.790	0.803
##	9.760	10597	1	0.796	0.003459	0.790	0.803
##	9.802	10596	1	0.796	0.003459	0.789	0.803
##	9.812	10595	1	0.796	0.003460	0.789	0.803
##	9.848	10594	1	0.796	0.003460	0.789	0.803
##	9.859	10593	1	0.796	0.003461	0.789	0.803
##	9.862	10592	1	0.796	0.003461	0.789	0.803
##	9.892	10591	1	0.796	0.003462	0.789	0.803
##	9.903	10590	1	0.796	0.003462	0.789	0.803
##	9.941	10588	1	0.796	0.003463	0.789	0.803
##	9.949	10586	1	0.796	0.003463	0.789	0.802
##	9.955	10584	1	0.796	0.003464	0.789	0.802
##	9.963	10583	1	0.796	0.003464	0.789	0.802
##	9.966	10582	1	0.796	0.003465	0.789	0.802
##	9.974	10581	1	0.795	0.003465	0.789	0.802
##	9.982	10580	1	0.795	0.003466	0.788	0.802
##	9.993	10579	1	0.795	0.003466	0.788	0.802
##	10.001	10578	1	0.795	0.003467	0.788	0.802
##	10.045	10576	1	0.795	0.003467	0.788	0.802
##	10.062	10575	1	0.795	0.003468	0.788	0.802
##	10.111	10574	1	0.795	0.003468	0.788	0.802
##	10.133	10573	1	0.795	0.003469	0.788	0.802
##	10.155	10572	1	0.795	0.003469	0.788	0.802
##	10.160	10571	1	0.795	0.003469	0.788	0.801
##	10.185	10569	1	0.795	0.003470	0.788	0.801
##	10.209	10568	1	0.795	0.003470	0.788	0.801
##	10.256	10565	2	0.794	0.003471	0.788	0.801
##	10.272	10561	1	0.794	0.003472	0.787	0.801

##	10.278	10560	1	0.794	0.003472	0.787	0.801
##	10.297	10559	1	0.794	0.003473	0.787	0.801
##	10.305	10557	1	0.794	0.003473	0.787	0.801
##	10.338	10556	1	0.794	0.003474	0.787	0.801
##	10.341	10555	1	0.794	0.003474	0.787	0.801
##	10.461	10550	1	0.794	0.003475	0.787	0.801
##	10.472	10549	1	0.794	0.003475	0.787	0.801
##	10.478	10548	1	0.794	0.003476	0.787	0.801
##	10.491	10547	1	0.794	0.003476	0.787	0.800
##	10.508	10546	1	0.794	0.003477	0.787	0.800
##	10.557	10545	1	0.794	0.003477	0.787	0.800
##	10.571	10544	1	0.793	0.003478	0.787	0.800
##	10.664	10538	1	0.793	0.003478	0.786	0.800
##	10.689	10537	1	0.793	0.003479	0.786	0.800
##	10.694	10536	1	0.793	0.003479	0.786	0.800
##	10.719	10535	1	0.793	0.003480	0.786	0.800
##	10.801	10532	1	0.793	0.003480	0.786	0.800
##	10.831	10530	1	0.793	0.003481	0.786	0.800
##	10.872	10529	1	0.793	0.003481	0.786	0.800
##	10.897	10528	1	0.793	0.003482	0.786	0.800
##	10.913	10527	1	0.793	0.003482	0.786	0.800
##	10.921	10526	1	0.793	0.003483	0.786	0.799
##	10.992	10522	1	0.793	0.003483	0.786	0.799
##	11.001	10521	2	0.793	0.003484	0.786	0.799
##	11.036	10519	1	0.792	0.003485	0.786	0.799
##	11.055	10518	1	0.792	0.003485	0.785	0.799
##	11.066	10517	1	0.792	0.003485	0.785	0.799
##	11.094	10516	2	0.792	0.003486	0.785	0.799
##	11.127	10513	1	0.792	0.003487	0.785	0.799
##	11.149	10512	1	0.792	0.003487	0.785	0.799
##	11.151	10511	1	0.792	0.003488	0.785	0.799
##	11.203	10509	1	0.792	0.003488	0.785	0.799
##	11.206	10508	1	0.792	0.003489	0.785	0.798
##	11.222	10507	1	0.792	0.003489	0.785	0.798
##	11.244	10505	1	0.792	0.003490	0.785	0.798
##	11.269	10503	1	0.792	0.003490	0.785	0.798
##	11.288	10502	1	0.791	0.003491	0.785	0.798
##	11.294	10501	1	0.791	0.003491	0.784	0.798
##	11.302	10500	1	0.791	0.003492	0.784	0.798
##	11.398	10499	1	0.791	0.003492	0.784	0.798
##	11.428	10498	1	0.791	0.003493	0.784	0.798
##	11.433	10497	1	0.791	0.003493	0.784	0.798
##	11.589	10494	1	0.791	0.003494	0.784	0.798
##	11.619	10493	1	0.791	0.003494	0.784	0.798
##	11.650	10492	1	0.791	0.003495	0.784	0.798
##	11.655	10491	2	0.791	0.003496	0.784	0.797

##	11.658	10489	1	0.791	0.003496	0.784	0.797
##	11.669	10488	1	0.791	0.003497	0.784	0.797
##	11.680	10486	1	0.790	0.003497	0.784	0.797
##	11.682	10485	1	0.790	0.003498	0.783	0.797
##	11.713	10483	1	0.790	0.003498	0.783	0.797
##	11.729	10482	1	0.790	0.003498	0.783	0.797
##	11.732	10481	1	0.790	0.003499	0.783	0.797
##	11.745	10480	1	0.790	0.003499	0.783	0.797
##	11.748	10479	3	0.790	0.003501	0.783	0.797
##	11.759	10476	2	0.790	0.003502	0.783	0.796
##	11.811	10472	1	0.790	0.003502	0.783	0.796
##	11.814	10471	1	0.790	0.003503	0.783	0.796
##	11.819	10470	1	0.789	0.003503	0.783	0.796
##	11.855	10467	2	0.789	0.003504	0.782	0.796
##	11.863	10465	2	0.789	0.003505	0.782	0.796
##	11.907	10462	1	0.789	0.003506	0.782	0.796
##	11.910	10461	1	0.789	0.003506	0.782	0.796
##	11.934	10460	1	0.789	0.003507	0.782	0.796
##	11.978	10457	1	0.789	0.003507	0.782	0.796
##	11.981	10456	1	0.789	0.003508	0.782	0.796
##	11.984	10455	1	0.789	0.003508	0.782	0.796
##	11.995	10453	1	0.789	0.003508	0.782	0.795
##	12.041	10451	1	0.789	0.003509	0.782	0.795
##	12.077	10450	1	0.789	0.003509	0.782	0.795
##	12.090	10449	1	0.788	0.003510	0.781	0.795
##	12.140	10448	1	0.788	0.003510	0.781	0.795
##	12.151	10446	1	0.788	0.003511	0.781	0.795
##	12.172	10444	1	0.788	0.003511	0.781	0.795
##	12.183	10443	1	0.788	0.003512	0.781	0.795
##	12.194	10442	1	0.788	0.003512	0.781	0.795
##	12.200	10441	1	0.788	0.003513	0.781	0.795
##	12.203	10440	1	0.788	0.003513	0.781	0.795
##	12.216	10439	1	0.788	0.003514	0.781	0.795
##	12.277	10437	1	0.788	0.003514	0.781	0.795
##	12.293	10436	1	0.788	0.003515	0.781	0.794
##	12.315	10435	1	0.788	0.003515	0.781	0.794
##	12.329	10433	1	0.788	0.003516	0.781	0.794
##	12.381	10431	1	0.787	0.003516	0.780	0.794
##	12.397	10430	1	0.787	0.003517	0.780	0.794
##	12.471	10427	1	0.787	0.003517	0.780	0.794
##	12.479	10426	1	0.787	0.003517	0.780	0.794
##	12.490	10425	1	0.787	0.003518	0.780	0.794
##	12.564	10424	1	0.787	0.003518	0.780	0.794
##	12.567	10423	1	0.787	0.003519	0.780	0.794
##	12.569	10422	1	0.787	0.003519	0.780	0.794
##	12.575	10421	1	0.787	0.003520	0.780	0.794

##	12.608	10419	1	0.787	0.003520	0.780	0.794
##	12.616	10418	1	0.787	0.003521	0.780	0.794
##	12.643	10415	1	0.787	0.003521	0.780	0.793
##	12.652	10414	1	0.787	0.003522	0.780	0.793
##	12.663	10412	1	0.786	0.003522	0.779	0.793
##	12.674	10411	1	0.786	0.003523	0.779	0.793
##	12.704	10410	1	0.786	0.003523	0.779	0.793
##	12.775	10409	1	0.786	0.003524	0.779	0.793
##	12.789	10408	1	0.786	0.003524	0.779	0.793
##	12.832	10406	1	0.786	0.003525	0.779	0.793
##	12.890	10402	1	0.786	0.003525	0.779	0.793
##	12.939	10401	2	0.786	0.003526	0.779	0.793
##	12.961	10398	1	0.786	0.003526	0.779	0.793
##	12.977	10396	1	0.786	0.003527	0.779	0.793
##	12.991	10395	1	0.786	0.003527	0.779	0.792
##	12.999	10394	1	0.786	0.003528	0.779	0.792
##	13.002	10392	1	0.785	0.003528	0.778	0.792
##	13.021	10390	1	0.785	0.003529	0.778	0.792
##	13.024	10389	1	0.785	0.003529	0.778	0.792
##	13.106	10388	1	0.785	0.003530	0.778	0.792
##	13.136	10387	1	0.785	0.003530	0.778	0.792
##	13.142	10386	1	0.785	0.003531	0.778	0.792
##	13.169	10385	1	0.785	0.003531	0.778	0.792
##	13.175	10384	1	0.785	0.003532	0.778	0.792
##	13.180	10383	1	0.785	0.003532	0.778	0.792
##	13.205	10382	1	0.785	0.003533	0.778	0.792
##	13.259	10381	1	0.785	0.003533	0.778	0.792
##	13.262	10380	1	0.785	0.003534	0.778	0.791
##	13.290	10379	1	0.785	0.003534	0.778	0.791
##	13.355	10376	1	0.785	0.003534	0.777	0.791
##	13.361	10375	1	0.784	0.003535	0.777	0.791
##	13.366	10374	1	0.784	0.003535	0.777	0.791
##	13.410	10371	1	0.784	0.003536	0.777	0.791
##	13.448	10368	1	0.784	0.003536	0.777	0.791
##	13.517	10366	1	0.784	0.003537	0.777	0.791
##	13.591	10364	1	0.784	0.003537	0.777	0.791
##	13.602	10363	1	0.784	0.003538	0.777	0.791
##	13.648	10361	1	0.784	0.003538	0.777	0.791
##	13.651	10360	2	0.784	0.003539	0.777	0.791
##	13.676	10357	2	0.784	0.003540	0.777	0.790
##	13.692	10355	1	0.784	0.003541	0.776	0.790
##	13.733	10353	2	0.783	0.003541	0.776	0.790
##	13.736	10351	1	0.783	0.003542	0.776	0.790
##	13.760	10350	1	0.783	0.003542	0.776	0.790
##	13.771	10349	1	0.783	0.003543	0.776	0.790
##	13.823	10348	1	0.783	0.003543	0.776	0.790

##	13.826	10347	1	0.783	0.003544	0.776	0.790
##	13.848	10346	2	0.783	0.003545	0.776	0.790
##	13.854	10344	1	0.783	0.003545	0.776	0.790
##	13.856	10343	1	0.783	0.003546	0.776	0.790
##	13.906	10342	1	0.783	0.003546	0.776	0.789
##	13.914	10341	1	0.783	0.003547	0.775	0.789
##	13.916	10340	1	0.782	0.003547	0.775	0.789
##	13.960	10339	2	0.782	0.003548	0.775	0.789
##	13.982	10336	1	0.782	0.003548	0.775	0.789
##	14.034	10334	1	0.782	0.003549	0.775	0.789
##	14.051	10331	1	0.782	0.003549	0.775	0.789
##	14.103	10328	1	0.782	0.003550	0.775	0.789
##	14.111	10326	1	0.782	0.003550	0.775	0.789
##	14.130	10324	1	0.782	0.003551	0.775	0.789
##	14.141	10322	1	0.782	0.003551	0.775	0.789
##	14.152	10318	1	0.782	0.003552	0.775	0.789
##	14.155	10317	1	0.782	0.003552	0.775	0.789
##	14.177	10315	1	0.782	0.003553	0.775	0.788
##	14.218	10312	2	0.781	0.003554	0.774	0.788
##	14.231	10310	1	0.781	0.003554	0.774	0.788
##	14.245	10307	1	0.781	0.003554	0.774	0.788
##	14.303	10306	1	0.781	0.003555	0.774	0.788
##	14.311	10305	1	0.781	0.003555	0.774	0.788
##	14.357	10304	2	0.781	0.003556	0.774	0.788
##	14.470	10300	1	0.781	0.003557	0.774	0.788
##	14.530	10297	1	0.781	0.003557	0.774	0.788
##	14.552	10296	1	0.781	0.003558	0.774	0.788
##	14.571	10294	1	0.781	0.003558	0.774	0.788
##	14.628	10291	1	0.781	0.003559	0.774	0.787
##	14.637	10290	2	0.780	0.003560	0.773	0.787
##	14.648	10288	1	0.780	0.003560	0.773	0.787
##	14.735	10283	1	0.780	0.003560	0.773	0.787
##	14.752	10282	1	0.780	0.003561	0.773	0.787
##	14.806	10280	1	0.780	0.003561	0.773	0.787
##	14.823	10278	1	0.780	0.003562	0.773	0.787
##	14.828	10277	1	0.780	0.003562	0.773	0.787
##	14.847	10276	1	0.780	0.003563	0.773	0.787
##	14.899	10274	1	0.780	0.003563	0.773	0.787
##	14.908	10273	1	0.780	0.003564	0.773	0.787
##	14.932	10272	1	0.780	0.003564	0.773	0.787
##	14.979	10271	1	0.780	0.003565	0.773	0.786
##							
##			sex=female				
##	time	n.risk	n.event	survival	std.err	lower 95% CI	upper 95% CI
##	0.003	12898	26	0.998	0.000395	0.997	0.999
##	0.005	12872	18	0.997	0.000513	0.995	0.997

##	0.008	12854	18	0.995	0.000609	0.994	0.996
##	0.011	12836	12	0.994	0.000665	0.993	0.995
##	0.014	12824	8	0.994	0.000700	0.992	0.995
##	0.016	12816	13	0.993	0.000753	0.991	0.994
##	0.019	12803	13	0.992	0.000802	0.990	0.993
##	0.022	12790	10	0.991	0.000838	0.989	0.992
##	0.025	12780	7	0.990	0.000863	0.988	0.992
##	0.027	12773	16	0.989	0.000916	0.987	0.991
##	0.030	12757	16	0.988	0.000966	0.986	0.990
##	0.033	12741	11	0.987	0.000998	0.985	0.989
##	0.036	12730	9	0.986	0.001024	0.984	0.988
##	0.038	12721	9	0.986	0.001050	0.983	0.987
##	0.041	12712	6	0.985	0.001066	0.983	0.987
##	0.044	12706	4	0.985	0.001077	0.983	0.987
##	0.047	12702	11	0.984	0.001106	0.982	0.986
##	0.049	12691	6	0.983	0.001122	0.981	0.986
##	0.052	12685	7	0.983	0.001140	0.981	0.985
##	0.055	12678	3	0.983	0.001148	0.980	0.985
##	0.057	12675	5	0.982	0.001160	0.980	0.984
##	0.060	12669	5	0.982	0.001173	0.979	0.984
##	0.063	12664	8	0.981	0.001192	0.979	0.984
##	0.066	12656	2	0.981	0.001197	0.979	0.983
##	0.068	12654	3	0.981	0.001204	0.978	0.983
##	0.071	12651	5	0.981	0.001216	0.978	0.983
##	0.074	12646	3	0.980	0.001223	0.978	0.983
##	0.077	12643	6	0.980	0.001238	0.977	0.982
##	0.079	12637	4	0.980	0.001247	0.977	0.982
##	0.082	12632	7	0.979	0.001263	0.976	0.981
##	0.085	12624	6	0.979	0.001276	0.976	0.981
##	0.088	12618	4	0.978	0.001285	0.976	0.981
##	0.090	12614	2	0.978	0.001290	0.975	0.980
##	0.093	12612	8	0.977	0.001308	0.975	0.980
##	0.096	12604	3	0.977	0.001314	0.974	0.980
##	0.099	12601	3	0.977	0.001321	0.974	0.979
##	0.101	12598	1	0.977	0.001323	0.974	0.979
##	0.104	12597	2	0.977	0.001327	0.974	0.979
##	0.107	12595	6	0.976	0.001340	0.973	0.979
##	0.110	12588	4	0.976	0.001349	0.973	0.978
##	0.112	12584	2	0.976	0.001353	0.973	0.978
##	0.115	12582	2	0.976	0.001357	0.973	0.978
##	0.118	12580	6	0.975	0.001370	0.972	0.978
##	0.120	12574	2	0.975	0.001374	0.972	0.978
##	0.123	12572	2	0.975	0.001378	0.972	0.977
##	0.126	12569	2	0.975	0.001382	0.972	0.977
##	0.129	12566	2	0.975	0.001386	0.972	0.977
##	0.131	12563	5	0.974	0.001397	0.971	0.977

##	0.134	12558	7	0.974	0.001411	0.971	0.976
##	0.137	12551	4	0.973	0.001419	0.970	0.976
##	0.140	12547	4	0.973	0.001427	0.970	0.976
##	0.142	12543	3	0.973	0.001433	0.970	0.975
##	0.145	12540	6	0.972	0.001445	0.969	0.975
##	0.148	12534	2	0.972	0.001449	0.969	0.975
##	0.151	12532	5	0.972	0.001458	0.969	0.974
##	0.153	12527	5	0.971	0.001468	0.968	0.974
##	0.156	12522	1	0.971	0.001470	0.968	0.974
##	0.159	12521	2	0.971	0.001474	0.968	0.974
##	0.162	12519	2	0.971	0.001478	0.968	0.974
##	0.167	12517	2	0.971	0.001481	0.968	0.974
##	0.170	12515	2	0.971	0.001485	0.968	0.973
##	0.172	12513	3	0.970	0.001491	0.967	0.973
##	0.175	12510	1	0.970	0.001493	0.967	0.973
##	0.178	12509	1	0.970	0.001495	0.967	0.973
##	0.181	12508	1	0.970	0.001497	0.967	0.973
##	0.183	12507	7	0.970	0.001510	0.967	0.973
##	0.186	12500	5	0.969	0.001519	0.966	0.972
##	0.189	12495	4	0.969	0.001527	0.966	0.972
##	0.192	12491	3	0.969	0.001532	0.966	0.972
##	0.194	12488	2	0.969	0.001536	0.965	0.971
##	0.197	12486	4	0.968	0.001543	0.965	0.971
##	0.200	12482	10	0.968	0.001561	0.964	0.970
##	0.203	12472	3	0.967	0.001567	0.964	0.970
##	0.205	12469	4	0.967	0.001574	0.964	0.970
##	0.208	12465	8	0.966	0.001588	0.963	0.969
##	0.211	12457	3	0.966	0.001593	0.963	0.969
##	0.214	12454	4	0.966	0.001600	0.963	0.969
##	0.216	12450	2	0.966	0.001604	0.962	0.969
##	0.219	12448	4	0.965	0.001611	0.962	0.968
##	0.222	12444	2	0.965	0.001614	0.962	0.968
##	0.225	12442	1	0.965	0.001616	0.962	0.968
##	0.227	12441	4	0.965	0.001623	0.961	0.968
##	0.233	12437	5	0.964	0.001632	0.961	0.967
##	0.235	12432	3	0.964	0.001637	0.961	0.967
##	0.238	12429	2	0.964	0.001640	0.961	0.967
##	0.241	12426	1	0.964	0.001642	0.961	0.967
##	0.244	12424	2	0.964	0.001645	0.960	0.967
##	0.246	12422	2	0.964	0.001649	0.960	0.967
##	0.249	12420	4	0.963	0.001655	0.960	0.966
##	0.255	12415	1	0.963	0.001657	0.960	0.966
##	0.257	12414	3	0.963	0.001662	0.960	0.966
##	0.260	12411	4	0.963	0.001669	0.959	0.966
##	0.263	12407	2	0.963	0.001672	0.959	0.966
##	0.266	12405	2	0.962	0.001675	0.959	0.966

##	0.268	12403	1	0.962	0.001677	0.959	0.965
##	0.271	12402	3	0.962	0.001682	0.959	0.965
##	0.274	12399	4	0.962	0.001689	0.958	0.965
##	0.277	12395	4	0.961	0.001695	0.958	0.965
##	0.279	12391	3	0.961	0.001700	0.958	0.964
##	0.282	12388	5	0.961	0.001708	0.957	0.964
##	0.285	12382	3	0.961	0.001713	0.957	0.964
##	0.287	12379	3	0.960	0.001718	0.957	0.964
##	0.290	12376	1	0.960	0.001720	0.957	0.964
##	0.293	12375	1	0.960	0.001721	0.957	0.963
##	0.298	12374	2	0.960	0.001724	0.957	0.963
##	0.301	12372	2	0.960	0.001728	0.956	0.963
##	0.304	12370	3	0.960	0.001732	0.956	0.963
##	0.307	12367	3	0.959	0.001737	0.956	0.963
##	0.309	12364	3	0.959	0.001742	0.956	0.962
##	0.312	12361	1	0.959	0.001744	0.956	0.962
##	0.315	12360	1	0.959	0.001745	0.955	0.962
##	0.318	12359	1	0.959	0.001747	0.955	0.962
##	0.320	12358	1	0.959	0.001748	0.955	0.962
##	0.323	12357	2	0.959	0.001751	0.955	0.962
##	0.326	12355	2	0.959	0.001755	0.955	0.962
##	0.329	12353	5	0.958	0.001762	0.955	0.962
##	0.331	12348	4	0.958	0.001769	0.954	0.961
##	0.334	12344	3	0.958	0.001773	0.954	0.961
##	0.337	12341	2	0.958	0.001777	0.954	0.961
##	0.339	12339	1	0.957	0.001778	0.954	0.961
##	0.342	12338	1	0.957	0.001780	0.954	0.961
##	0.345	12337	2	0.957	0.001783	0.954	0.961
##	0.348	12335	2	0.957	0.001786	0.953	0.960
##	0.350	12332	1	0.957	0.001787	0.953	0.960
##	0.353	12331	3	0.957	0.001792	0.953	0.960
##	0.359	12328	3	0.956	0.001797	0.953	0.960
##	0.361	12325	3	0.956	0.001801	0.953	0.960
##	0.364	12322	1	0.956	0.001803	0.953	0.960
##	0.367	12321	3	0.956	0.001807	0.952	0.959
##	0.370	12318	2	0.956	0.001810	0.952	0.959
##	0.372	12316	3	0.956	0.001815	0.952	0.959
##	0.375	12313	2	0.955	0.001818	0.952	0.959
##	0.378	12311	2	0.955	0.001821	0.952	0.959
##	0.381	12309	2	0.955	0.001824	0.951	0.959
##	0.383	12307	4	0.955	0.001830	0.951	0.958
##	0.386	12303	2	0.955	0.001833	0.951	0.958
##	0.389	12301	2	0.954	0.001836	0.951	0.958
##	0.392	12299	2	0.954	0.001839	0.951	0.958
##	0.394	12297	2	0.954	0.001842	0.950	0.958
##	0.397	12295	1	0.954	0.001843	0.950	0.958

##	0.400	12294	2	0.954	0.001846	0.950	0.957
##	0.402	12292	1	0.954	0.001848	0.950	0.957
##	0.405	12291	6	0.953	0.001857	0.950	0.957
##	0.408	12285	4	0.953	0.001862	0.949	0.957
##	0.411	12281	2	0.953	0.001865	0.949	0.956
##	0.413	12279	2	0.953	0.001868	0.949	0.956
##	0.416	12277	4	0.952	0.001874	0.949	0.956
##	0.419	12273	1	0.952	0.001876	0.949	0.956
##	0.422	12272	1	0.952	0.001877	0.948	0.956
##	0.424	12271	5	0.952	0.001884	0.948	0.955
##	0.430	12265	1	0.952	0.001886	0.948	0.955
##	0.433	12264	3	0.952	0.001890	0.948	0.955
##	0.435	12261	2	0.951	0.001893	0.948	0.955
##	0.438	12259	1	0.951	0.001894	0.948	0.955
##	0.441	12258	1	0.951	0.001896	0.947	0.955
##	0.444	12257	1	0.951	0.001897	0.947	0.955
##	0.449	12256	1	0.951	0.001899	0.947	0.955
##	0.452	12255	2	0.951	0.001901	0.947	0.955
##	0.454	12253	1	0.951	0.001903	0.947	0.954
##	0.457	12252	1	0.951	0.001904	0.947	0.954
##	0.460	12251	5	0.950	0.001911	0.947	0.954
##	0.463	12246	3	0.950	0.001916	0.946	0.954
##	0.465	12243	1	0.950	0.001917	0.946	0.954
##	0.468	12242	2	0.950	0.001920	0.946	0.954
##	0.471	12240	1	0.950	0.001921	0.946	0.954
##	0.474	12239	2	0.950	0.001924	0.946	0.953
##	0.476	12237	1	0.950	0.001926	0.946	0.953
##	0.479	12236	2	0.950	0.001928	0.946	0.953
##	0.482	12234	1	0.949	0.001930	0.946	0.953
##	0.485	12233	4	0.949	0.001935	0.945	0.953
##	0.487	12228	1	0.949	0.001937	0.945	0.953
##	0.490	12227	3	0.949	0.001941	0.945	0.952
##	0.493	12224	2	0.949	0.001944	0.945	0.952
##	0.496	12222	2	0.948	0.001947	0.945	0.952
##	0.498	12220	1	0.948	0.001948	0.944	0.952
##	0.501	12217	1	0.948	0.001949	0.944	0.952
##	0.507	12215	3	0.948	0.001953	0.944	0.952
##	0.509	12212	2	0.948	0.001956	0.944	0.952
##	0.512	12210	3	0.948	0.001960	0.944	0.951
##	0.515	12206	1	0.948	0.001962	0.944	0.951
##	0.517	12205	2	0.947	0.001965	0.943	0.951
##	0.520	12203	1	0.947	0.001966	0.943	0.951
##	0.523	12202	1	0.947	0.001967	0.943	0.951
##	0.526	12201	1	0.947	0.001969	0.943	0.951
##	0.528	12200	2	0.947	0.001971	0.943	0.951
##	0.531	12198	2	0.947	0.001974	0.943	0.951

##	0.534	12196	3	0.947	0.001978	0.943	0.950
##	0.537	12193	1	0.947	0.001980	0.943	0.950
##	0.539	12192	1	0.947	0.001981	0.943	0.950
##	0.545	12191	1	0.946	0.001982	0.942	0.950
##	0.548	12190	4	0.946	0.001988	0.942	0.950
##	0.553	12186	1	0.946	0.001989	0.942	0.950
##	0.556	12185	1	0.946	0.001990	0.942	0.950
##	0.559	12183	3	0.946	0.001994	0.942	0.950
##	0.564	12180	2	0.946	0.001997	0.942	0.949
##	0.569	12178	1	0.946	0.001998	0.941	0.949
##	0.572	12177	1	0.945	0.002000	0.941	0.949
##	0.575	12174	2	0.945	0.002002	0.941	0.949
##	0.578	12172	2	0.945	0.002005	0.941	0.949
##	0.580	12170	1	0.945	0.002007	0.941	0.949
##	0.583	12169	3	0.945	0.002011	0.941	0.949
##	0.586	12166	4	0.945	0.002016	0.940	0.948
##	0.589	12162	3	0.944	0.002020	0.940	0.948
##	0.591	12158	2	0.944	0.002022	0.940	0.948
##	0.594	12156	4	0.944	0.002028	0.940	0.948
##	0.600	12152	5	0.943	0.002034	0.939	0.947
##	0.602	12147	2	0.943	0.002037	0.939	0.947
##	0.605	12145	3	0.943	0.002041	0.939	0.947
##	0.608	12142	2	0.943	0.002044	0.939	0.947
##	0.616	12140	1	0.943	0.002045	0.939	0.947
##	0.619	12139	3	0.943	0.002049	0.938	0.946
##	0.621	12135	2	0.942	0.002051	0.938	0.946
##	0.624	12132	3	0.942	0.002055	0.938	0.946
##	0.632	12129	3	0.942	0.002059	0.938	0.946
##	0.635	12126	3	0.942	0.002063	0.938	0.946
##	0.638	12123	3	0.942	0.002067	0.937	0.945
##	0.641	12120	2	0.941	0.002070	0.937	0.945
##	0.643	12118	1	0.941	0.002071	0.937	0.945
##	0.646	12117	1	0.941	0.002072	0.937	0.945
##	0.649	12116	2	0.941	0.002075	0.937	0.945
##	0.652	12114	1	0.941	0.002076	0.937	0.945
##	0.654	12113	1	0.941	0.002077	0.937	0.945
##	0.657	12112	2	0.941	0.002080	0.937	0.945
##	0.660	12110	2	0.941	0.002082	0.936	0.945
##	0.663	12108	1	0.940	0.002084	0.936	0.944
##	0.665	12106	1	0.940	0.002085	0.936	0.944
##	0.668	12105	4	0.940	0.002090	0.936	0.944
##	0.671	12101	1	0.940	0.002091	0.936	0.944
##	0.676	12100	2	0.940	0.002094	0.936	0.944
##	0.679	12098	2	0.940	0.002096	0.935	0.944
##	0.682	12096	2	0.940	0.002099	0.935	0.944
##	0.684	12094	1	0.939	0.002100	0.935	0.943

##	0.687	12093	2	0.939	0.002103	0.935	0.943
##	0.690	12091	2	0.939	0.002105	0.935	0.943
##	0.693	12089	1	0.939	0.002106	0.935	0.943
##	0.695	12088	2	0.939	0.002109	0.935	0.943
##	0.698	12086	2	0.939	0.002111	0.935	0.943
##	0.701	12083	1	0.939	0.002113	0.934	0.943
##	0.704	12082	1	0.939	0.002114	0.934	0.943
##	0.706	12081	2	0.938	0.002116	0.934	0.942
##	0.709	12079	3	0.938	0.002120	0.934	0.942
##	0.712	12076	2	0.938	0.002123	0.934	0.942
##	0.715	12074	1	0.938	0.002124	0.934	0.942
##	0.717	12072	1	0.938	0.002125	0.934	0.942
##	0.723	12071	3	0.938	0.002129	0.933	0.942
##	0.726	12068	2	0.938	0.002131	0.933	0.942
##	0.728	12066	2	0.937	0.002134	0.933	0.941
##	0.731	12064	3	0.937	0.002138	0.933	0.941
##	0.734	12061	1	0.937	0.002139	0.933	0.941
##	0.736	12060	2	0.937	0.002141	0.933	0.941
##	0.739	12058	2	0.937	0.002144	0.932	0.941
##	0.742	12056	1	0.937	0.002145	0.932	0.941
##	0.745	12053	3	0.936	0.002149	0.932	0.941
##	0.747	12050	2	0.936	0.002151	0.932	0.940
##	0.753	12047	6	0.936	0.002158	0.931	0.940
##	0.758	12041	3	0.936	0.002162	0.931	0.940
##	0.761	12038	3	0.935	0.002166	0.931	0.939
##	0.764	12035	1	0.935	0.002167	0.931	0.939
##	0.767	12034	1	0.935	0.002168	0.931	0.939
##	0.769	12033	3	0.935	0.002172	0.931	0.939
##	0.780	12030	2	0.935	0.002174	0.930	0.939
##	0.783	12028	1	0.935	0.002175	0.930	0.939
##	0.786	12027	4	0.934	0.002180	0.930	0.939
##	0.789	12023	3	0.934	0.002184	0.930	0.938
##	0.791	12020	2	0.934	0.002186	0.930	0.938
##	0.794	12018	2	0.934	0.002189	0.929	0.938
##	0.797	12016	3	0.934	0.002192	0.929	0.938
##	0.799	12013	1	0.934	0.002193	0.929	0.938
##	0.802	12012	1	0.934	0.002195	0.929	0.938
##	0.805	12011	2	0.933	0.002197	0.929	0.938
##	0.808	12009	3	0.933	0.002201	0.929	0.937
##	0.810	12006	3	0.933	0.002204	0.928	0.937
##	0.813	12003	1	0.933	0.002205	0.928	0.937
##	0.819	12002	1	0.933	0.002207	0.928	0.937
##	0.827	12000	3	0.932	0.002210	0.928	0.937
##	0.830	11997	3	0.932	0.002214	0.928	0.936
##	0.835	11994	1	0.932	0.002215	0.928	0.936
##	0.838	11993	2	0.932	0.002217	0.928	0.936

##	0.841	11991	2	0.932	0.002220	0.927	0.936
##	0.843	11989	1	0.932	0.002221	0.927	0.936
##	0.849	11988	1	0.932	0.002222	0.927	0.936
##	0.851	11987	2	0.932	0.002224	0.927	0.936
##	0.854	11985	2	0.931	0.002227	0.927	0.936
##	0.857	11982	3	0.931	0.002230	0.927	0.935
##	0.860	11979	1	0.931	0.002231	0.927	0.935
##	0.862	11978	1	0.931	0.002232	0.927	0.935
##	0.868	11977	1	0.931	0.002234	0.926	0.935
##	0.876	11975	1	0.931	0.002235	0.926	0.935
##	0.882	11974	2	0.931	0.002237	0.926	0.935
##	0.884	11972	2	0.931	0.002239	0.926	0.935
##	0.887	11970	1	0.930	0.002241	0.926	0.935
##	0.893	11969	3	0.930	0.002244	0.926	0.935
##	0.895	11966	1	0.930	0.002245	0.926	0.934
##	0.898	11965	1	0.930	0.002246	0.926	0.934
##	0.901	11964	1	0.930	0.002248	0.925	0.934
##	0.909	11963	1	0.930	0.002249	0.925	0.934
##	0.912	11962	2	0.930	0.002251	0.925	0.934
##	0.917	11958	1	0.930	0.002252	0.925	0.934
##	0.920	11956	2	0.930	0.002254	0.925	0.934
##	0.923	11953	2	0.929	0.002257	0.925	0.934
##	0.928	11950	1	0.929	0.002258	0.925	0.934
##	0.931	11949	2	0.929	0.002260	0.925	0.933
##	0.934	11946	4	0.929	0.002265	0.924	0.933
##	0.936	11942	3	0.929	0.002268	0.924	0.933
##	0.939	11939	2	0.928	0.002271	0.924	0.933
##	0.942	11936	1	0.928	0.002272	0.924	0.933
##	0.945	11935	1	0.928	0.002273	0.924	0.933
##	0.947	11934	2	0.928	0.002275	0.924	0.932
##	0.950	11931	2	0.928	0.002277	0.923	0.932
##	0.953	11929	3	0.928	0.002281	0.923	0.932
##	0.956	11926	1	0.928	0.002282	0.923	0.932
##	0.958	11925	2	0.928	0.002284	0.923	0.932
##	0.964	11923	2	0.927	0.002286	0.923	0.932
##	0.969	11920	4	0.927	0.002291	0.922	0.931
##	0.972	11916	2	0.927	0.002293	0.922	0.931
##	0.975	11914	3	0.927	0.002297	0.922	0.931
##	0.988	11911	2	0.927	0.002299	0.922	0.931
##	0.991	11909	1	0.926	0.002300	0.922	0.931
##	0.994	11908	1	0.926	0.002301	0.922	0.931
##	0.997	11907	2	0.926	0.002303	0.922	0.931
##	0.999	11905	2	0.926	0.002306	0.921	0.930
##	1.002	11903	5	0.926	0.002311	0.921	0.930
##	1.005	11898	2	0.925	0.002313	0.921	0.930
##	1.008	11896	1	0.925	0.002314	0.921	0.930

##	1.010	11895	3	0.925	0.002318	0.921	0.930
##	1.013	11892	1	0.925	0.002319	0.920	0.930
##	1.024	11891	3	0.925	0.002322	0.920	0.929
##	1.027	11888	2	0.925	0.002324	0.920	0.929
##	1.029	11886	1	0.925	0.002326	0.920	0.929
##	1.032	11885	1	0.925	0.002327	0.920	0.929
##	1.038	11884	1	0.924	0.002328	0.920	0.929
##	1.040	11883	4	0.924	0.002332	0.919	0.929
##	1.043	11879	1	0.924	0.002333	0.919	0.929
##	1.046	11877	1	0.924	0.002334	0.919	0.928
##	1.049	11876	1	0.924	0.002335	0.919	0.928
##	1.051	11874	2	0.924	0.002338	0.919	0.928
##	1.068	11872	2	0.924	0.002340	0.919	0.928
##	1.070	11870	2	0.923	0.002342	0.919	0.928
##	1.073	11868	1	0.923	0.002343	0.919	0.928
##	1.079	11867	1	0.923	0.002344	0.919	0.928
##	1.081	11866	2	0.923	0.002346	0.918	0.928
##	1.084	11864	2	0.923	0.002349	0.918	0.927
##	1.090	11859	1	0.923	0.002350	0.918	0.927
##	1.092	11857	1	0.923	0.002351	0.918	0.927
##	1.095	11856	3	0.923	0.002354	0.918	0.927
##	1.098	11853	3	0.922	0.002357	0.918	0.927
##	1.103	11850	1	0.922	0.002358	0.918	0.927
##	1.106	11849	1	0.922	0.002360	0.917	0.927
##	1.109	11848	3	0.922	0.002363	0.917	0.926
##	1.112	11845	1	0.922	0.002364	0.917	0.926
##	1.123	11844	1	0.922	0.002365	0.917	0.926
##	1.125	11843	1	0.922	0.002366	0.917	0.926
##	1.128	11842	2	0.922	0.002368	0.917	0.926
##	1.131	11840	2	0.921	0.002370	0.917	0.926
##	1.133	11838	3	0.921	0.002374	0.916	0.926
##	1.139	11834	2	0.921	0.002376	0.916	0.926
##	1.142	11832	2	0.921	0.002378	0.916	0.925
##	1.144	11830	2	0.921	0.002380	0.916	0.925
##	1.153	11828	2	0.921	0.002382	0.916	0.925
##	1.158	11826	1	0.921	0.002383	0.916	0.925
##	1.161	11825	2	0.920	0.002385	0.916	0.925
##	1.164	11823	2	0.920	0.002387	0.915	0.925
##	1.166	11821	1	0.920	0.002389	0.915	0.925
##	1.169	11819	3	0.920	0.002392	0.915	0.924
##	1.172	11816	1	0.920	0.002393	0.915	0.924
##	1.175	11815	1	0.920	0.002394	0.915	0.924
##	1.177	11813	2	0.920	0.002396	0.915	0.924
##	1.180	11811	6	0.919	0.002402	0.914	0.924
##	1.188	11805	2	0.919	0.002404	0.914	0.924
##	1.194	11802	1	0.919	0.002406	0.914	0.923

##	1.202	11800	1	0.919	0.002407	0.914	0.923
##	1.205	11799	2	0.919	0.002409	0.914	0.923
##	1.213	11797	1	0.919	0.002410	0.914	0.923
##	1.216	11795	2	0.918	0.002412	0.914	0.923
##	1.221	11792	2	0.918	0.002414	0.913	0.923
##	1.224	11788	2	0.918	0.002416	0.913	0.923
##	1.229	11786	3	0.918	0.002419	0.913	0.922
##	1.235	11782	1	0.918	0.002420	0.913	0.922
##	1.240	11781	1	0.918	0.002421	0.913	0.922
##	1.243	11780	1	0.918	0.002422	0.913	0.922
##	1.248	11779	3	0.917	0.002426	0.913	0.922
##	1.251	11776	1	0.917	0.002427	0.912	0.922
##	1.254	11775	1	0.917	0.002428	0.912	0.922
##	1.257	11774	2	0.917	0.002430	0.912	0.922
##	1.262	11772	2	0.917	0.002432	0.912	0.922
##	1.265	11770	2	0.917	0.002434	0.912	0.921
##	1.268	11768	3	0.917	0.002437	0.912	0.921
##	1.273	11765	1	0.916	0.002438	0.912	0.921
##	1.276	11764	1	0.916	0.002439	0.911	0.921
##	1.279	11763	2	0.916	0.002441	0.911	0.921
##	1.284	11761	1	0.916	0.002442	0.911	0.921
##	1.287	11760	1	0.916	0.002443	0.911	0.921
##	1.290	11759	1	0.916	0.002444	0.911	0.921
##	1.295	11758	2	0.916	0.002446	0.911	0.921
##	1.300	11756	2	0.916	0.002448	0.911	0.920
##	1.303	11754	1	0.916	0.002449	0.911	0.920
##	1.306	11753	3	0.915	0.002452	0.910	0.920
##	1.309	11750	1	0.915	0.002453	0.910	0.920
##	1.311	11749	1	0.915	0.002455	0.910	0.920
##	1.314	11748	2	0.915	0.002457	0.910	0.920
##	1.317	11746	1	0.915	0.002458	0.910	0.920
##	1.320	11745	1	0.915	0.002459	0.910	0.920
##	1.325	11744	1	0.915	0.002460	0.910	0.920
##	1.328	11743	2	0.915	0.002462	0.910	0.919
##	1.331	11741	2	0.915	0.002464	0.910	0.919
##	1.333	11739	1	0.914	0.002465	0.909	0.919
##	1.342	11738	1	0.914	0.002466	0.909	0.919
##	1.344	11737	3	0.914	0.002469	0.909	0.919
##	1.347	11734	1	0.914	0.002470	0.909	0.919
##	1.350	11733	1	0.914	0.002471	0.909	0.919
##	1.355	11732	1	0.914	0.002472	0.909	0.919
##	1.358	11730	1	0.914	0.002473	0.909	0.919
##	1.361	11728	3	0.914	0.002476	0.909	0.918
##	1.372	11723	1	0.914	0.002477	0.909	0.918
##	1.374	11722	2	0.913	0.002479	0.908	0.918
##	1.377	11720	2	0.913	0.002481	0.908	0.918

##	1.380	11718	2	0.913	0.002483	0.908	0.918
##	1.385	11716	1	0.913	0.002484	0.908	0.918
##	1.388	11714	1	0.913	0.002485	0.908	0.918
##	1.391	11713	2	0.913	0.002487	0.908	0.917
##	1.407	11710	2	0.913	0.002489	0.908	0.917
##	1.410	11708	1	0.912	0.002490	0.907	0.917
##	1.413	11707	3	0.912	0.002493	0.907	0.917
##	1.415	11704	2	0.912	0.002495	0.907	0.917
##	1.418	11702	1	0.912	0.002496	0.907	0.917
##	1.421	11701	1	0.912	0.002497	0.907	0.917
##	1.426	11699	1	0.912	0.002498	0.907	0.917
##	1.429	11698	1	0.912	0.002499	0.907	0.917
##	1.432	11697	1	0.912	0.002500	0.907	0.916
##	1.435	11696	1	0.912	0.002501	0.907	0.916
##	1.437	11694	2	0.911	0.002503	0.906	0.916
##	1.443	11691	2	0.911	0.002505	0.906	0.916
##	1.446	11688	1	0.911	0.002506	0.906	0.916
##	1.448	11687	1	0.911	0.002507	0.906	0.916
##	1.459	11686	2	0.911	0.002509	0.906	0.916
##	1.462	11684	1	0.911	0.002510	0.906	0.916
##	1.465	11683	2	0.911	0.002512	0.906	0.916
##	1.467	11681	1	0.911	0.002513	0.906	0.915
##	1.470	11679	1	0.911	0.002514	0.906	0.915
##	1.473	11678	3	0.910	0.002517	0.905	0.915
##	1.476	11675	1	0.910	0.002518	0.905	0.915
##	1.478	11674	1	0.910	0.002519	0.905	0.915
##	1.484	11673	1	0.910	0.002520	0.905	0.915
##	1.495	11672	3	0.910	0.002523	0.905	0.915
##	1.498	11669	2	0.910	0.002525	0.905	0.915
##	1.500	11667	1	0.910	0.002526	0.905	0.915
##	1.506	11666	2	0.910	0.002528	0.904	0.914
##	1.517	11664	1	0.909	0.002529	0.904	0.914
##	1.520	11663	1	0.909	0.002530	0.904	0.914
##	1.522	11662	2	0.909	0.002532	0.904	0.914
##	1.528	11660	5	0.909	0.002537	0.904	0.914
##	1.530	11655	1	0.909	0.002538	0.904	0.914
##	1.539	11653	1	0.909	0.002539	0.904	0.914
##	1.544	11652	1	0.909	0.002540	0.903	0.913
##	1.558	11651	1	0.909	0.002541	0.903	0.913
##	1.563	11650	1	0.908	0.002542	0.903	0.913
##	1.566	11648	1	0.908	0.002543	0.903	0.913
##	1.569	11647	2	0.908	0.002545	0.903	0.913
##	1.572	11645	1	0.908	0.002546	0.903	0.913
##	1.577	11644	1	0.908	0.002547	0.903	0.913
##	1.582	11643	1	0.908	0.002548	0.903	0.913
##	1.591	11642	1	0.908	0.002549	0.903	0.913

##	1.593	11641	2	0.908	0.002551	0.903	0.913
##	1.599	11639	1	0.908	0.002551	0.903	0.913
##	1.602	11638	3	0.907	0.002554	0.902	0.912
##	1.610	11634	1	0.907	0.002555	0.902	0.912
##	1.613	11633	3	0.907	0.002558	0.902	0.912
##	1.618	11630	3	0.907	0.002561	0.902	0.912
##	1.621	11627	1	0.907	0.002562	0.902	0.912
##	1.624	11626	2	0.907	0.002564	0.901	0.912
##	1.626	11624	1	0.907	0.002565	0.901	0.911
##	1.629	11623	2	0.906	0.002567	0.901	0.911
##	1.632	11621	2	0.906	0.002569	0.901	0.911
##	1.634	11619	2	0.906	0.002571	0.901	0.911
##	1.640	11617	1	0.906	0.002572	0.901	0.911
##	1.645	11616	5	0.906	0.002577	0.900	0.911
##	1.654	11611	2	0.905	0.002579	0.900	0.910
##	1.659	11609	2	0.905	0.002580	0.900	0.910
##	1.667	11607	1	0.905	0.002581	0.900	0.910
##	1.673	11606	2	0.905	0.002583	0.900	0.910
##	1.678	11604	1	0.905	0.002584	0.900	0.910
##	1.684	11603	1	0.905	0.002585	0.900	0.910
##	1.687	11601	4	0.905	0.002589	0.899	0.910
##	1.692	11597	2	0.904	0.002591	0.899	0.909
##	1.695	11595	1	0.904	0.002592	0.899	0.909
##	1.697	11594	2	0.904	0.002594	0.899	0.909
##	1.700	11592	1	0.904	0.002595	0.899	0.909
##	1.706	11590	3	0.904	0.002598	0.899	0.909
##	1.708	11587	1	0.904	0.002599	0.899	0.909
##	1.711	11586	2	0.904	0.002600	0.898	0.909
##	1.714	11584	1	0.904	0.002601	0.898	0.909
##	1.717	11583	2	0.903	0.002603	0.898	0.908
##	1.725	11581	1	0.903	0.002604	0.898	0.908
##	1.728	11580	1	0.903	0.002605	0.898	0.908
##	1.730	11579	1	0.903	0.002606	0.898	0.908
##	1.739	11578	1	0.903	0.002607	0.898	0.908
##	1.744	11577	1	0.903	0.002608	0.898	0.908
##	1.749	11575	1	0.903	0.002609	0.898	0.908
##	1.752	11573	3	0.903	0.002612	0.897	0.908
##	1.755	11570	3	0.903	0.002615	0.897	0.908
##	1.760	11567	1	0.902	0.002615	0.897	0.907
##	1.763	11566	1	0.902	0.002616	0.897	0.907
##	1.771	11565	1	0.902	0.002617	0.897	0.907
##	1.774	11564	1	0.902	0.002618	0.897	0.907
##	1.777	11562	1	0.902	0.002619	0.897	0.907
##	1.780	11561	1	0.902	0.002620	0.897	0.907
##	1.785	11560	2	0.902	0.002622	0.897	0.907
##	1.791	11557	1	0.902	0.002623	0.897	0.907

##	1.799	11554	2	0.902	0.002625	0.896	0.907
##	1.802	11552	2	0.901	0.002627	0.896	0.907
##	1.804	11550	1	0.901	0.002628	0.896	0.906
##	1.810	11549	1	0.901	0.002629	0.896	0.906
##	1.815	11548	1	0.901	0.002629	0.896	0.906
##	1.821	11545	2	0.901	0.002631	0.896	0.906
##	1.823	11543	1	0.901	0.002632	0.896	0.906
##	1.826	11542	1	0.901	0.002633	0.896	0.906
##	1.832	11541	1	0.901	0.002634	0.896	0.906
##	1.834	11540	1	0.901	0.002635	0.895	0.906
##	1.843	11539	4	0.900	0.002639	0.895	0.906
##	1.845	11535	3	0.900	0.002642	0.895	0.905
##	1.848	11532	3	0.900	0.002644	0.895	0.905
##	1.851	11529	1	0.900	0.002645	0.895	0.905
##	1.859	11528	2	0.900	0.002647	0.894	0.905
##	1.862	11526	2	0.900	0.002649	0.894	0.905
##	1.864	11524	1	0.900	0.002650	0.894	0.905
##	1.870	11523	1	0.899	0.002651	0.894	0.905
##	1.875	11522	1	0.899	0.002652	0.894	0.904
##	1.878	11521	1	0.899	0.002653	0.894	0.904
##	1.881	11520	1	0.899	0.002654	0.894	0.904
##	1.886	11519	1	0.899	0.002654	0.894	0.904
##	1.889	11517	2	0.899	0.002656	0.894	0.904
##	1.892	11515	1	0.899	0.002657	0.894	0.904
##	1.895	11514	2	0.899	0.002659	0.893	0.904
##	1.900	11512	2	0.899	0.002661	0.893	0.904
##	1.903	11510	1	0.899	0.002662	0.893	0.904
##	1.911	11509	1	0.898	0.002663	0.893	0.904
##	1.914	11508	2	0.898	0.002665	0.893	0.903
##	1.916	11506	1	0.898	0.002665	0.893	0.903
##	1.919	11505	1	0.898	0.002666	0.893	0.903
##	1.925	11504	2	0.898	0.002668	0.893	0.903
##	1.930	11502	1	0.898	0.002669	0.893	0.903
##	1.936	11501	1	0.898	0.002670	0.892	0.903
##	1.938	11500	1	0.898	0.002671	0.892	0.903
##	1.947	11498	1	0.898	0.002672	0.892	0.903
##	1.952	11496	1	0.898	0.002673	0.892	0.903
##	1.958	11495	1	0.898	0.002674	0.892	0.903
##	1.960	11493	1	0.897	0.002675	0.892	0.903
##	1.966	11491	1	0.897	0.002675	0.892	0.902
##	1.969	11490	2	0.897	0.002677	0.892	0.902
##	1.971	11488	1	0.897	0.002678	0.892	0.902
##	1.974	11487	1	0.897	0.002679	0.892	0.902
##	1.979	11486	2	0.897	0.002681	0.892	0.902
##	1.982	11484	1	0.897	0.002682	0.891	0.902
##	1.985	11483	2	0.897	0.002684	0.891	0.902

##	1.999	11481	1	0.897	0.002684	0.891	0.902
##	2.001	11479	1	0.896	0.002685	0.891	0.902
##	2.007	11478	1	0.896	0.002686	0.891	0.902
##	2.010	11477	1	0.896	0.002687	0.891	0.901
##	2.015	11476	2	0.896	0.002689	0.891	0.901
##	2.021	11474	1	0.896	0.002690	0.891	0.901
##	2.023	11472	2	0.896	0.002692	0.891	0.901
##	2.026	11470	1	0.896	0.002693	0.890	0.901
##	2.031	11468	1	0.896	0.002693	0.890	0.901
##	2.037	11466	1	0.896	0.002694	0.890	0.901
##	2.042	11465	2	0.896	0.002696	0.890	0.901
##	2.045	11462	1	0.895	0.002697	0.890	0.901
##	2.048	11461	1	0.895	0.002698	0.890	0.901
##	2.051	11460	1	0.895	0.002699	0.890	0.900
##	2.053	11459	1	0.895	0.002700	0.890	0.900
##	2.059	11458	2	0.895	0.002702	0.890	0.900
##	2.062	11456	1	0.895	0.002702	0.890	0.900
##	2.067	11455	1	0.895	0.002703	0.890	0.900
##	2.073	11454	1	0.895	0.002704	0.889	0.900
##	2.078	11453	1	0.895	0.002705	0.889	0.900
##	2.084	11452	1	0.895	0.002706	0.889	0.900
##	2.089	11450	1	0.895	0.002707	0.889	0.900
##	2.100	11449	1	0.895	0.002708	0.889	0.900
##	2.103	11448	2	0.894	0.002710	0.889	0.900
##	2.105	11445	1	0.894	0.002710	0.889	0.899
##	2.111	11444	2	0.894	0.002712	0.889	0.899
##	2.114	11442	1	0.894	0.002713	0.889	0.899
##	2.119	11441	3	0.894	0.002716	0.888	0.899
##	2.122	11437	1	0.894	0.002717	0.888	0.899
##	2.130	11435	1	0.894	0.002718	0.888	0.899
##	2.133	11434	2	0.894	0.002719	0.888	0.899
##	2.138	11431	1	0.893	0.002720	0.888	0.899
##	2.144	11430	1	0.893	0.002721	0.888	0.899
##	2.149	11429	2	0.893	0.002723	0.888	0.898
##	2.152	11426	1	0.893	0.002724	0.888	0.898
##	2.163	11425	1	0.893	0.002725	0.888	0.898
##	2.171	11424	1	0.893	0.002726	0.888	0.898
##	2.177	11423	1	0.893	0.002726	0.887	0.898
##	2.179	11422	3	0.893	0.002729	0.887	0.898
##	2.185	11419	1	0.893	0.002730	0.887	0.898
##	2.188	11418	2	0.892	0.002732	0.887	0.898
##	2.196	11415	1	0.892	0.002733	0.887	0.898
##	2.198	11414	1	0.892	0.002733	0.887	0.898
##	2.207	11412	1	0.892	0.002734	0.887	0.897
##	2.212	11411	1	0.892	0.002735	0.887	0.897
##	2.218	11410	3	0.892	0.002738	0.886	0.897

##	2.220	11407	2	0.892	0.002740	0.886	0.897
##	2.229	11405	1	0.892	0.002740	0.886	0.897
##	2.234	11404	1	0.892	0.002741	0.886	0.897
##	2.237	11403	2	0.891	0.002743	0.886	0.897
##	2.240	11401	1	0.891	0.002744	0.886	0.897
##	2.242	11400	3	0.891	0.002747	0.886	0.896
##	2.248	11397	1	0.891	0.002747	0.886	0.896
##	2.251	11396	2	0.891	0.002749	0.885	0.896
##	2.256	11393	1	0.891	0.002750	0.885	0.896
##	2.261	11392	4	0.890	0.002754	0.885	0.896
##	2.264	11388	1	0.890	0.002754	0.885	0.896
##	2.267	11387	1	0.890	0.002755	0.885	0.896
##	2.272	11386	3	0.890	0.002758	0.885	0.895
##	2.278	11383	1	0.890	0.002759	0.884	0.895
##	2.281	11382	2	0.890	0.002760	0.884	0.895
##	2.286	11380	1	0.890	0.002761	0.884	0.895
##	2.289	11378	1	0.890	0.002762	0.884	0.895
##	2.292	11377	2	0.890	0.002764	0.884	0.895
##	2.294	11375	2	0.889	0.002766	0.884	0.895
##	2.297	11373	1	0.889	0.002767	0.884	0.895
##	2.303	11372	1	0.889	0.002767	0.884	0.895
##	2.305	11370	1	0.889	0.002768	0.884	0.894
##	2.308	11369	1	0.889	0.002769	0.884	0.894
##	2.311	11368	2	0.889	0.002771	0.883	0.894
##	2.316	11365	1	0.889	0.002772	0.883	0.894
##	2.324	11364	1	0.889	0.002773	0.883	0.894
##	2.333	11363	2	0.889	0.002774	0.883	0.894
##	2.338	11361	1	0.889	0.002775	0.883	0.894
##	2.346	11360	1	0.888	0.002776	0.883	0.894
##	2.349	11359	1	0.888	0.002777	0.883	0.894
##	2.355	11358	1	0.888	0.002778	0.883	0.894
##	2.357	11357	1	0.888	0.002779	0.883	0.894
##	2.366	11356	2	0.888	0.002780	0.882	0.893
##	2.368	11354	2	0.888	0.002782	0.882	0.893
##	2.374	11352	1	0.888	0.002783	0.882	0.893
##	2.379	11350	2	0.888	0.002785	0.882	0.893
##	2.385	11347	1	0.888	0.002785	0.882	0.893
##	2.387	11346	1	0.888	0.002786	0.882	0.893
##	2.393	11345	1	0.887	0.002787	0.882	0.893
##	2.396	11344	1	0.887	0.002788	0.882	0.893
##	2.404	11343	2	0.887	0.002790	0.882	0.893
##	2.407	11341	1	0.887	0.002790	0.882	0.892
##	2.409	11340	3	0.887	0.002793	0.881	0.892
##	2.415	11337	1	0.887	0.002794	0.881	0.892
##	2.420	11335	1	0.887	0.002795	0.881	0.892
##	2.428	11332	1	0.887	0.002796	0.881	0.892

##	2.434	11331	2	0.886	0.002797	0.881	0.892
##	2.437	11329	2	0.886	0.002799	0.881	0.892
##	2.439	11326	1	0.886	0.002800	0.881	0.892
##	2.448	11325	2	0.886	0.002802	0.880	0.891
##	2.450	11322	1	0.886	0.002802	0.880	0.891
##	2.453	11321	1	0.886	0.002803	0.880	0.891
##	2.456	11320	1	0.886	0.002804	0.880	0.891
##	2.461	11319	1	0.886	0.002805	0.880	0.891
##	2.464	11318	2	0.886	0.002807	0.880	0.891
##	2.467	11316	1	0.886	0.002807	0.880	0.891
##	2.470	11315	2	0.885	0.002809	0.880	0.891
##	2.475	11313	1	0.885	0.002810	0.880	0.891
##	2.480	11312	1	0.885	0.002811	0.880	0.891
##	2.486	11311	1	0.885	0.002812	0.880	0.891
##	2.489	11310	1	0.885	0.002812	0.879	0.890
##	2.500	11309	1	0.885	0.002813	0.879	0.890
##	2.505	11308	1	0.885	0.002814	0.879	0.890
##	2.508	11307	1	0.885	0.002815	0.879	0.890
##	2.511	11305	1	0.885	0.002816	0.879	0.890
##	2.519	11304	1	0.885	0.002817	0.879	0.890
##	2.522	11303	2	0.885	0.002818	0.879	0.890
##	2.527	11301	2	0.884	0.002820	0.879	0.890
##	2.530	11298	1	0.884	0.002821	0.879	0.890
##	2.538	11297	1	0.884	0.002822	0.879	0.890
##	2.543	11296	1	0.884	0.002823	0.878	0.890
##	2.546	11295	2	0.884	0.002824	0.878	0.889
##	2.557	11292	2	0.884	0.002826	0.878	0.889
##	2.563	11290	1	0.884	0.002827	0.878	0.889
##	2.568	11289	3	0.884	0.002829	0.878	0.889
##	2.571	11286	1	0.883	0.002830	0.878	0.889
##	2.574	11285	2	0.883	0.002832	0.878	0.889
##	2.576	11283	1	0.883	0.002833	0.878	0.889
##	2.579	11281	1	0.883	0.002833	0.877	0.889
##	2.582	11280	3	0.883	0.002836	0.877	0.888
##	2.585	11277	1	0.883	0.002837	0.877	0.888
##	2.590	11276	1	0.883	0.002837	0.877	0.888
##	2.598	11275	2	0.883	0.002839	0.877	0.888
##	2.604	11273	3	0.882	0.002842	0.877	0.888
##	2.609	11270	2	0.882	0.002843	0.876	0.888
##	2.612	11268	3	0.882	0.002846	0.876	0.887
##	2.623	11264	1	0.882	0.002847	0.876	0.887
##	2.634	11261	2	0.882	0.002848	0.876	0.887
##	2.637	11259	1	0.882	0.002849	0.876	0.887
##	2.648	11258	1	0.882	0.002850	0.876	0.887
##	2.650	11257	2	0.881	0.002852	0.876	0.887
##	2.656	11255	1	0.881	0.002852	0.876	0.887

##	2.658	11254	1	0.881	0.002853	0.876	0.887
##	2.661	11253	1	0.881	0.002854	0.875	0.887
##	2.664	11252	1	0.881	0.002855	0.875	0.887
##	2.683	11249	1	0.881	0.002856	0.875	0.886
##	2.686	11248	2	0.881	0.002857	0.875	0.886
##	2.691	11245	1	0.881	0.002858	0.875	0.886
##	2.697	11243	2	0.881	0.002860	0.875	0.886
##	2.700	11241	1	0.881	0.002861	0.875	0.886
##	2.702	11240	2	0.880	0.002862	0.875	0.886
##	2.705	11238	1	0.880	0.002863	0.875	0.886
##	2.710	11237	1	0.880	0.002864	0.874	0.886
##	2.713	11236	3	0.880	0.002866	0.874	0.885
##	2.716	11233	1	0.880	0.002867	0.874	0.885
##	2.721	11232	1	0.880	0.002868	0.874	0.885
##	2.727	11230	1	0.880	0.002869	0.874	0.885
##	2.735	11229	1	0.880	0.002870	0.874	0.885
##	2.738	11228	1	0.880	0.002870	0.874	0.885
##	2.741	11226	1	0.880	0.002871	0.874	0.885
##	2.752	11225	1	0.879	0.002872	0.874	0.885
##	2.757	11224	1	0.879	0.002873	0.874	0.885
##	2.760	11223	1	0.879	0.002874	0.874	0.885
##	2.762	11222	1	0.879	0.002874	0.873	0.885
##	2.773	11220	1	0.879	0.002875	0.873	0.885
##	2.779	11219	1	0.879	0.002876	0.873	0.885
##	2.795	11217	1	0.879	0.002877	0.873	0.884
##	2.798	11216	1	0.879	0.002878	0.873	0.884
##	2.806	11215	2	0.879	0.002879	0.873	0.884
##	2.815	11213	2	0.879	0.002881	0.873	0.884
##	2.820	11211	2	0.878	0.002882	0.873	0.884
##	2.834	11208	1	0.878	0.002883	0.873	0.884
##	2.842	11206	2	0.878	0.002885	0.872	0.884
##	2.845	11204	1	0.878	0.002886	0.872	0.884
##	2.850	11203	1	0.878	0.002887	0.872	0.884
##	2.856	11202	1	0.878	0.002887	0.872	0.883
##	2.858	11201	1	0.878	0.002888	0.872	0.883
##	2.861	11200	1	0.878	0.002889	0.872	0.883
##	2.867	11198	1	0.878	0.002890	0.872	0.883
##	2.869	11196	1	0.878	0.002891	0.872	0.883
##	2.872	11195	1	0.878	0.002891	0.872	0.883
##	2.888	11193	2	0.877	0.002893	0.872	0.883
##	2.894	11191	1	0.877	0.002894	0.872	0.883
##	2.897	11190	1	0.877	0.002895	0.871	0.883
##	2.899	11189	2	0.877	0.002896	0.871	0.883
##	2.908	11186	1	0.877	0.002897	0.871	0.883
##	2.913	11185	1	0.877	0.002898	0.871	0.882
##	2.916	11184	2	0.877	0.002899	0.871	0.882

##	2.921	11182	1	0.877	0.002900	0.871	0.882
##	2.927	11180	1	0.877	0.002901	0.871	0.882
##	2.930	11179	3	0.876	0.002903	0.871	0.882
##	2.932	11176	1	0.876	0.002904	0.870	0.882
##	2.935	11175	1	0.876	0.002905	0.870	0.882
##	2.938	11174	2	0.876	0.002907	0.870	0.882
##	2.943	11172	2	0.876	0.002908	0.870	0.881
##	2.946	11170	1	0.876	0.002909	0.870	0.881
##	2.949	11169	3	0.876	0.002911	0.870	0.881
##	2.962	11165	1	0.876	0.002912	0.870	0.881
##	2.965	11164	2	0.875	0.002914	0.870	0.881
##	2.971	11162	2	0.875	0.002915	0.869	0.881
##	2.973	11160	1	0.875	0.002916	0.869	0.881
##	2.976	11159	1	0.875	0.002917	0.869	0.881
##	2.984	11157	1	0.875	0.002918	0.869	0.881
##	2.987	11156	1	0.875	0.002919	0.869	0.880
##	2.992	11155	1	0.875	0.002919	0.869	0.880
##	2.995	11154	2	0.875	0.002921	0.869	0.880
##	3.001	11152	1	0.875	0.002922	0.869	0.880
##	3.012	11150	1	0.875	0.002922	0.869	0.880
##	3.014	11149	2	0.874	0.002924	0.868	0.880
##	3.020	11147	1	0.874	0.002925	0.868	0.880
##	3.023	11145	1	0.874	0.002926	0.868	0.880
##	3.031	11144	1	0.874	0.002926	0.868	0.880
##	3.034	11143	2	0.874	0.002928	0.868	0.880
##	3.044	11140	1	0.874	0.002929	0.868	0.879
##	3.069	11138	1	0.874	0.002930	0.868	0.879
##	3.080	11137	1	0.874	0.002930	0.868	0.879
##	3.083	11136	1	0.874	0.002931	0.868	0.879
##	3.086	11135	2	0.873	0.002933	0.868	0.879
##	3.088	11133	1	0.873	0.002934	0.868	0.879
##	3.094	11132	1	0.873	0.002934	0.867	0.879
##	3.105	11131	2	0.873	0.002936	0.867	0.879
##	3.107	11129	2	0.873	0.002937	0.867	0.879
##	3.110	11127	1	0.873	0.002938	0.867	0.879
##	3.113	11126	1	0.873	0.002939	0.867	0.878
##	3.121	11124	2	0.873	0.002941	0.867	0.878
##	3.127	11122	3	0.872	0.002943	0.867	0.878
##	3.129	11119	2	0.872	0.002944	0.866	0.878
##	3.132	11117	1	0.872	0.002945	0.866	0.878
##	3.138	11116	1	0.872	0.002946	0.866	0.878
##	3.143	11114	1	0.872	0.002947	0.866	0.878
##	3.149	11113	1	0.872	0.002948	0.866	0.878
##	3.151	11112	1	0.872	0.002948	0.866	0.878
##	3.154	11111	1	0.872	0.002949	0.866	0.877
##	3.162	11110	1	0.872	0.002950	0.866	0.877

##	3.165	11109	1	0.872	0.002951	0.866	0.877
##	3.170	11108	2	0.872	0.002952	0.866	0.877
##	3.176	11106	2	0.871	0.002954	0.865	0.877
##	3.187	11104	1	0.871	0.002955	0.865	0.877
##	3.190	11103	1	0.871	0.002955	0.865	0.877
##	3.195	11102	1	0.871	0.002956	0.865	0.877
##	3.201	11101	1	0.871	0.002957	0.865	0.877
##	3.203	11100	1	0.871	0.002958	0.865	0.877
##	3.209	11098	2	0.871	0.002959	0.865	0.876
##	3.214	11096	1	0.871	0.002960	0.865	0.876
##	3.217	11095	4	0.870	0.002963	0.864	0.876
##	3.220	11091	2	0.870	0.002965	0.864	0.876
##	3.233	11089	2	0.870	0.002966	0.864	0.876
##	3.242	11087	1	0.870	0.002967	0.864	0.876
##	3.253	11086	1	0.870	0.002968	0.864	0.876
##	3.264	11085	1	0.870	0.002968	0.864	0.876
##	3.266	11084	1	0.870	0.002969	0.864	0.875
##	3.269	11083	1	0.870	0.002970	0.864	0.875
##	3.272	11082	1	0.870	0.002971	0.864	0.875
##	3.285	11081	2	0.869	0.002972	0.864	0.875
##	3.288	11079	2	0.869	0.002974	0.863	0.875
##	3.294	11077	1	0.869	0.002975	0.863	0.875
##	3.299	11076	1	0.869	0.002975	0.863	0.875
##	3.302	11075	2	0.869	0.002977	0.863	0.875
##	3.310	11072	1	0.869	0.002978	0.863	0.875
##	3.318	11071	3	0.869	0.002980	0.863	0.874
##	3.321	11068	1	0.869	0.002981	0.863	0.874
##	3.324	11067	1	0.869	0.002982	0.863	0.874
##	3.332	11065	2	0.868	0.002983	0.862	0.874
##	3.335	11063	2	0.868	0.002985	0.862	0.874
##	3.340	11061	1	0.868	0.002985	0.862	0.874
##	3.348	11060	1	0.868	0.002986	0.862	0.874
##	3.351	11059	1	0.868	0.002987	0.862	0.874
##	3.354	11058	1	0.868	0.002988	0.862	0.874
##	3.362	11057	1	0.868	0.002988	0.862	0.874
##	3.376	11056	3	0.868	0.002991	0.862	0.873
##	3.379	11053	2	0.867	0.002992	0.861	0.873
##	3.381	11051	1	0.867	0.002993	0.861	0.873
##	3.384	11049	1	0.867	0.002994	0.861	0.873
##	3.395	11048	1	0.867	0.002994	0.861	0.873
##	3.406	11047	1	0.867	0.002995	0.861	0.873
##	3.409	11046	2	0.867	0.002997	0.861	0.873
##	3.420	11044	1	0.867	0.002997	0.861	0.873
##	3.425	11043	2	0.867	0.002999	0.861	0.872
##	3.428	11041	1	0.867	0.003000	0.861	0.872
##	3.433	11040	1	0.867	0.003001	0.861	0.872

##	3.439	11039	1	0.867	0.003001	0.860	0.872
##	3.441	11038	1	0.866	0.003002	0.860	0.872
##	3.447	11037	1	0.866	0.003003	0.860	0.872
##	3.450	11036	1	0.866	0.003004	0.860	0.872
##	3.469	11034	3	0.866	0.003006	0.860	0.872
##	3.474	11031	1	0.866	0.003007	0.860	0.872
##	3.477	11030	2	0.866	0.003008	0.860	0.872
##	3.480	11028	1	0.866	0.003009	0.860	0.871
##	3.488	11026	1	0.866	0.003010	0.860	0.871
##	3.496	11024	1	0.866	0.003010	0.860	0.871
##	3.499	11023	1	0.865	0.003011	0.859	0.871
##	3.504	11022	2	0.865	0.003013	0.859	0.871
##	3.513	11020	3	0.865	0.003015	0.859	0.871
##	3.515	11017	2	0.865	0.003016	0.859	0.871
##	3.546	11014	2	0.865	0.003018	0.859	0.871
##	3.551	11012	1	0.865	0.003019	0.859	0.870
##	3.559	11010	1	0.865	0.003019	0.859	0.870
##	3.562	11009	1	0.865	0.003020	0.858	0.870
##	3.565	11008	2	0.864	0.003022	0.858	0.870
##	3.567	11006	1	0.864	0.003022	0.858	0.870
##	3.570	11005	1	0.864	0.003023	0.858	0.870
##	3.573	11004	1	0.864	0.003024	0.858	0.870
##	3.587	11001	1	0.864	0.003025	0.858	0.870
##	3.589	11000	2	0.864	0.003026	0.858	0.870
##	3.598	10998	1	0.864	0.003027	0.858	0.870
##	3.608	10996	2	0.864	0.003028	0.858	0.869
##	3.614	10994	1	0.864	0.003029	0.858	0.869
##	3.617	10993	1	0.864	0.003030	0.857	0.869
##	3.625	10992	1	0.863	0.003030	0.857	0.869
##	3.661	10989	1	0.863	0.003031	0.857	0.869
##	3.663	10988	1	0.863	0.003032	0.857	0.869
##	3.666	10987	1	0.863	0.003033	0.857	0.869
##	3.669	10986	3	0.863	0.003035	0.857	0.869
##	3.671	10983	1	0.863	0.003036	0.857	0.869
##	3.677	10981	1	0.863	0.003036	0.857	0.869
##	3.680	10980	1	0.863	0.003037	0.857	0.869
##	3.685	10979	1	0.863	0.003038	0.857	0.868
##	3.691	10977	1	0.863	0.003039	0.856	0.868
##	3.696	10976	1	0.862	0.003039	0.856	0.868
##	3.699	10975	2	0.862	0.003041	0.856	0.868
##	3.702	10973	1	0.862	0.003042	0.856	0.868
##	3.704	10972	1	0.862	0.003042	0.856	0.868
##	3.710	10971	1	0.862	0.003043	0.856	0.868
##	3.713	10970	1	0.862	0.003044	0.856	0.868
##	3.723	10968	1	0.862	0.003045	0.856	0.868
##	3.732	10967	1	0.862	0.003045	0.856	0.868

##	3.734	10966	1	0.862	0.003046	0.856	0.868
##	3.737	10965	1	0.862	0.003047	0.856	0.868
##	3.740	10964	1	0.862	0.003047	0.856	0.867
##	3.754	10963	1	0.862	0.003048	0.855	0.867
##	3.756	10962	1	0.861	0.003049	0.855	0.867
##	3.767	10959	1	0.861	0.003050	0.855	0.867
##	3.770	10958	1	0.861	0.003050	0.855	0.867
##	3.784	10957	1	0.861	0.003051	0.855	0.867
##	3.795	10956	1	0.861	0.003052	0.855	0.867
##	3.803	10955	1	0.861	0.003053	0.855	0.867
##	3.806	10954	1	0.861	0.003053	0.855	0.867
##	3.819	10953	1	0.861	0.003054	0.855	0.867
##	3.822	10951	1	0.861	0.003055	0.855	0.867
##	3.830	10950	1	0.861	0.003056	0.855	0.867
##	3.833	10949	4	0.860	0.003058	0.854	0.866
##	3.836	10945	1	0.860	0.003059	0.854	0.866
##	3.838	10944	1	0.860	0.003060	0.854	0.866
##	3.841	10943	1	0.860	0.003061	0.854	0.866
##	3.844	10942	1	0.860	0.003061	0.854	0.866
##	3.855	10941	2	0.860	0.003063	0.854	0.866
##	3.871	10938	1	0.860	0.003064	0.854	0.866
##	3.885	10937	1	0.860	0.003064	0.854	0.866
##	3.888	10936	2	0.860	0.003066	0.854	0.866
##	3.890	10934	1	0.860	0.003066	0.853	0.865
##	3.901	10933	1	0.860	0.003067	0.853	0.865
##	3.910	10932	1	0.859	0.003068	0.853	0.865
##	3.937	10931	1	0.859	0.003069	0.853	0.865
##	3.943	10930	1	0.859	0.003069	0.853	0.865
##	3.948	10928	1	0.859	0.003070	0.853	0.865
##	3.951	10927	1	0.859	0.003071	0.853	0.865
##	3.956	10926	1	0.859	0.003072	0.853	0.865
##	3.959	10925	2	0.859	0.003073	0.853	0.865
##	3.967	10923	1	0.859	0.003074	0.853	0.865
##	3.970	10922	1	0.859	0.003074	0.853	0.865
##	3.995	10920	3	0.858	0.003077	0.852	0.864
##	3.997	10917	1	0.858	0.003077	0.852	0.864
##	4.016	10915	1	0.858	0.003078	0.852	0.864
##	4.019	10914	1	0.858	0.003079	0.852	0.864
##	4.022	10913	1	0.858	0.003080	0.852	0.864
##	4.036	10911	2	0.858	0.003081	0.852	0.864
##	4.044	10909	1	0.858	0.003082	0.852	0.864
##	4.047	10908	2	0.858	0.003083	0.852	0.864
##	4.052	10906	1	0.858	0.003084	0.852	0.864
##	4.057	10905	1	0.858	0.003085	0.851	0.864
##	4.060	10904	1	0.858	0.003085	0.851	0.863
##	4.071	10903	1	0.857	0.003086	0.851	0.863

##	4.074	10902	1	0.857	0.003087	0.851	0.863
##	4.077	10901	1	0.857	0.003087	0.851	0.863
##	4.082	10900	1	0.857	0.003088	0.851	0.863
##	4.088	10899	1	0.857	0.003089	0.851	0.863
##	4.096	10898	1	0.857	0.003090	0.851	0.863
##	4.099	10897	1	0.857	0.003090	0.851	0.863
##	4.104	10896	1	0.857	0.003091	0.851	0.863
##	4.107	10895	1	0.857	0.003092	0.851	0.863
##	4.112	10894	1	0.857	0.003092	0.851	0.863
##	4.120	10893	2	0.857	0.003094	0.850	0.863
##	4.123	10891	2	0.856	0.003095	0.850	0.862
##	4.126	10889	1	0.856	0.003096	0.850	0.862
##	4.145	10888	1	0.856	0.003097	0.850	0.862
##	4.151	10887	1	0.856	0.003097	0.850	0.862
##	4.162	10886	2	0.856	0.003099	0.850	0.862
##	4.172	10884	1	0.856	0.003100	0.850	0.862
##	4.186	10882	1	0.856	0.003100	0.850	0.862
##	4.189	10881	1	0.856	0.003101	0.850	0.862
##	4.197	10880	1	0.856	0.003102	0.850	0.862
##	4.200	10879	2	0.856	0.003103	0.849	0.862
##	4.205	10877	1	0.855	0.003104	0.849	0.861
##	4.208	10876	1	0.855	0.003105	0.849	0.861
##	4.211	10875	1	0.855	0.003105	0.849	0.861
##	4.216	10874	1	0.855	0.003106	0.849	0.861
##	4.219	10872	1	0.855	0.003107	0.849	0.861
##	4.222	10871	1	0.855	0.003107	0.849	0.861
##	4.225	10870	1	0.855	0.003108	0.849	0.861
##	4.230	10868	1	0.855	0.003109	0.849	0.861
##	4.233	10867	1	0.855	0.003110	0.849	0.861
##	4.252	10866	1	0.855	0.003110	0.849	0.861
##	4.255	10865	1	0.855	0.003111	0.848	0.861
##	4.257	10864	1	0.855	0.003112	0.848	0.861
##	4.260	10863	1	0.855	0.003112	0.848	0.861
##	4.263	10862	1	0.854	0.003113	0.848	0.860
##	4.271	10861	1	0.854	0.003114	0.848	0.860
##	4.282	10858	1	0.854	0.003115	0.848	0.860
##	4.285	10857	2	0.854	0.003116	0.848	0.860
##	4.296	10855	1	0.854	0.003117	0.848	0.860
##	4.298	10854	1	0.854	0.003117	0.848	0.860
##	4.301	10852	1	0.854	0.003118	0.848	0.860
##	4.304	10850	1	0.854	0.003119	0.848	0.860
##	4.309	10849	1	0.854	0.003119	0.848	0.860
##	4.318	10848	2	0.854	0.003121	0.847	0.860
##	4.320	10846	1	0.854	0.003122	0.847	0.860
##	4.326	10844	1	0.853	0.003122	0.847	0.859
##	4.329	10843	1	0.853	0.003123	0.847	0.859

##	4.342	10842	1	0.853	0.003124	0.847	0.859
##	4.348	10841	1	0.853	0.003124	0.847	0.859
##	4.356	10840	2	0.853	0.003126	0.847	0.859
##	4.367	10838	2	0.853	0.003127	0.847	0.859
##	4.375	10834	1	0.853	0.003128	0.847	0.859
##	4.381	10833	1	0.853	0.003129	0.846	0.859
##	4.389	10832	1	0.853	0.003129	0.846	0.859
##	4.392	10831	1	0.853	0.003130	0.846	0.859
##	4.411	10830	1	0.853	0.003131	0.846	0.859
##	4.413	10829	1	0.852	0.003131	0.846	0.858
##	4.422	10828	1	0.852	0.003132	0.846	0.858
##	4.424	10827	1	0.852	0.003133	0.846	0.858
##	4.427	10826	1	0.852	0.003134	0.846	0.858
##	4.435	10825	1	0.852	0.003134	0.846	0.858
##	4.438	10824	1	0.852	0.003135	0.846	0.858
##	4.444	10822	1	0.852	0.003136	0.846	0.858
##	4.452	10821	1	0.852	0.003136	0.846	0.858
##	4.465	10820	2	0.852	0.003138	0.845	0.858
##	4.471	10818	1	0.852	0.003138	0.845	0.858
##	4.490	10817	1	0.852	0.003139	0.845	0.858
##	4.493	10816	1	0.851	0.003140	0.845	0.858
##	4.498	10815	1	0.851	0.003141	0.845	0.857
##	4.501	10814	1	0.851	0.003141	0.845	0.857
##	4.509	10813	1	0.851	0.003142	0.845	0.857
##	4.520	10812	1	0.851	0.003143	0.845	0.857
##	4.523	10811	1	0.851	0.003143	0.845	0.857
##	4.526	10810	1	0.851	0.003144	0.845	0.857
##	4.539	10809	1	0.851	0.003145	0.845	0.857
##	4.542	10808	1	0.851	0.003145	0.845	0.857
##	4.548	10807	1	0.851	0.003146	0.844	0.857
##	4.556	10806	1	0.851	0.003147	0.844	0.857
##	4.569	10805	2	0.851	0.003148	0.844	0.857
##	4.578	10803	2	0.850	0.003150	0.844	0.856
##	4.583	10801	2	0.850	0.003151	0.844	0.856
##	4.586	10799	1	0.850	0.003152	0.844	0.856
##	4.589	10798	1	0.850	0.003152	0.844	0.856
##	4.591	10797	2	0.850	0.003154	0.844	0.856
##	4.605	10794	2	0.850	0.003155	0.843	0.856
##	4.608	10792	1	0.850	0.003156	0.843	0.856
##	4.630	10791	2	0.850	0.003157	0.843	0.856
##	4.638	10789	1	0.849	0.003158	0.843	0.856
##	4.652	10788	1	0.849	0.003159	0.843	0.855
##	4.663	10787	1	0.849	0.003159	0.843	0.855
##	4.671	10786	1	0.849	0.003160	0.843	0.855
##	4.674	10785	2	0.849	0.003161	0.843	0.855
##	4.682	10783	1	0.849	0.003162	0.843	0.855

##	4.687	10780	1	0.849	0.003163	0.843	0.855
##	4.690	10779	1	0.849	0.003163	0.842	0.855
##	4.701	10778	1	0.849	0.003164	0.842	0.855
##	4.720	10776	1	0.849	0.003165	0.842	0.855
##	4.723	10775	1	0.849	0.003165	0.842	0.855
##	4.734	10773	1	0.848	0.003166	0.842	0.855
##	4.747	10772	1	0.848	0.003167	0.842	0.855
##	4.753	10771	1	0.848	0.003167	0.842	0.854
##	4.756	10770	1	0.848	0.003168	0.842	0.854
##	4.758	10769	1	0.848	0.003169	0.842	0.854
##	4.764	10768	2	0.848	0.003170	0.842	0.854
##	4.780	10766	1	0.848	0.003171	0.842	0.854
##	4.783	10765	2	0.848	0.003172	0.841	0.854
##	4.786	10763	1	0.848	0.003173	0.841	0.854
##	4.797	10761	1	0.848	0.003174	0.841	0.854
##	4.821	10760	1	0.848	0.003174	0.841	0.854
##	4.835	10759	1	0.847	0.003175	0.841	0.854
##	4.841	10758	2	0.847	0.003176	0.841	0.853
##	4.843	10756	1	0.847	0.003177	0.841	0.853
##	4.846	10755	1	0.847	0.003178	0.841	0.853
##	4.849	10754	1	0.847	0.003178	0.841	0.853
##	4.851	10752	2	0.847	0.003180	0.841	0.853
##	4.857	10750	1	0.847	0.003180	0.840	0.853
##	4.860	10749	2	0.847	0.003182	0.840	0.853
##	4.862	10747	3	0.846	0.003184	0.840	0.853
##	4.865	10744	1	0.846	0.003184	0.840	0.852
##	4.873	10743	2	0.846	0.003186	0.840	0.852
##	4.879	10741	3	0.846	0.003188	0.840	0.852
##	4.887	10738	1	0.846	0.003189	0.840	0.852
##	4.909	10737	3	0.846	0.003191	0.839	0.852
##	4.912	10734	1	0.846	0.003191	0.839	0.852
##	4.923	10732	1	0.845	0.003192	0.839	0.852
##	4.925	10731	2	0.845	0.003193	0.839	0.851
##	4.936	10729	1	0.845	0.003194	0.839	0.851
##	4.939	10728	1	0.845	0.003195	0.839	0.851
##	4.947	10727	2	0.845	0.003196	0.839	0.851
##	4.966	10725	1	0.845	0.003197	0.839	0.851
##	4.969	10724	1	0.845	0.003197	0.838	0.851
##	4.983	10723	1	0.845	0.003198	0.838	0.851
##	4.986	10722	1	0.845	0.003199	0.838	0.851
##	4.988	10721	1	0.845	0.003199	0.838	0.851
##	4.991	10720	1	0.845	0.003200	0.838	0.851
##	4.997	10719	1	0.844	0.003201	0.838	0.851
##	4.999	10718	1	0.844	0.003201	0.838	0.851
##	5.021	10717	1	0.844	0.003202	0.838	0.850
##	5.024	10716	2	0.844	0.003203	0.838	0.850

##	5.027	10714	1	0.844	0.003204	0.838	0.850
##	5.032	10712	1	0.844	0.003205	0.838	0.850
##	5.035	10711	1	0.844	0.003205	0.838	0.850
##	5.049	10710	2	0.844	0.003207	0.837	0.850
##	5.057	10708	1	0.844	0.003207	0.837	0.850
##	5.073	10707	1	0.844	0.003208	0.837	0.850
##	5.090	10705	1	0.844	0.003209	0.837	0.850
##	5.092	10704	2	0.843	0.003210	0.837	0.850
##	5.098	10702	1	0.843	0.003211	0.837	0.849
##	5.103	10701	2	0.843	0.003212	0.837	0.849
##	5.109	10699	1	0.843	0.003213	0.837	0.849
##	5.112	10698	1	0.843	0.003213	0.837	0.849
##	5.123	10696	1	0.843	0.003214	0.836	0.849
##	5.128	10694	1	0.843	0.003215	0.836	0.849
##	5.139	10693	2	0.843	0.003216	0.836	0.849
##	5.155	10691	1	0.843	0.003217	0.836	0.849
##	5.161	10690	1	0.843	0.003217	0.836	0.849
##	5.180	10688	1	0.842	0.003218	0.836	0.849
##	5.183	10687	1	0.842	0.003219	0.836	0.849
##	5.194	10686	1	0.842	0.003219	0.836	0.848
##	5.196	10685	1	0.842	0.003220	0.836	0.848
##	5.199	10684	1	0.842	0.003221	0.836	0.848
##	5.238	10683	1	0.842	0.003221	0.836	0.848
##	5.276	10680	1	0.842	0.003222	0.836	0.848
##	5.279	10679	1	0.842	0.003223	0.835	0.848
##	5.290	10677	1	0.842	0.003223	0.835	0.848
##	5.309	10676	1	0.842	0.003224	0.835	0.848
##	5.325	10675	1	0.842	0.003225	0.835	0.848
##	5.331	10674	1	0.842	0.003225	0.835	0.848
##	5.333	10673	1	0.841	0.003226	0.835	0.848
##	5.339	10672	1	0.841	0.003227	0.835	0.848
##	5.347	10671	1	0.841	0.003227	0.835	0.848
##	5.350	10670	1	0.841	0.003228	0.835	0.847
##	5.377	10669	1	0.841	0.003229	0.835	0.847
##	5.383	10668	1	0.841	0.003229	0.835	0.847
##	5.385	10667	1	0.841	0.003230	0.835	0.847
##	5.396	10665	1	0.841	0.003231	0.834	0.847
##	5.405	10663	1	0.841	0.003231	0.834	0.847
##	5.407	10662	2	0.841	0.003233	0.834	0.847
##	5.410	10660	1	0.841	0.003233	0.834	0.847
##	5.465	10656	1	0.841	0.003234	0.834	0.847
##	5.481	10655	2	0.840	0.003235	0.834	0.847
##	5.484	10653	1	0.840	0.003236	0.834	0.847
##	5.495	10652	1	0.840	0.003237	0.834	0.846
##	5.500	10651	1	0.840	0.003237	0.834	0.846
##	5.503	10650	1	0.840	0.003238	0.834	0.846

##	5.541	10649	1	0.840	0.003239	0.834	0.846
##	5.550	10648	1	0.840	0.003239	0.833	0.846
##	5.566	10646	1	0.840	0.003240	0.833	0.846
##	5.585	10645	1	0.840	0.003240	0.833	0.846
##	5.591	10644	1	0.840	0.003241	0.833	0.846
##	5.596	10643	1	0.840	0.003242	0.833	0.846
##	5.604	10642	1	0.840	0.003242	0.833	0.846
##	5.615	10641	1	0.839	0.003243	0.833	0.846
##	5.629	10640	1	0.839	0.003244	0.833	0.846
##	5.640	10639	1	0.839	0.003244	0.833	0.846
##	5.654	10638	1	0.839	0.003245	0.833	0.845
##	5.656	10636	1	0.839	0.003246	0.833	0.845
##	5.659	10635	1	0.839	0.003246	0.833	0.845
##	5.667	10634	1	0.839	0.003247	0.832	0.845
##	5.676	10633	2	0.839	0.003248	0.832	0.845
##	5.678	10631	1	0.839	0.003249	0.832	0.845
##	5.697	10630	1	0.839	0.003250	0.832	0.845
##	5.703	10628	1	0.839	0.003250	0.832	0.845
##	5.730	10626	1	0.838	0.003251	0.832	0.845
##	5.739	10625	1	0.838	0.003252	0.832	0.845
##	5.747	10624	1	0.838	0.003252	0.832	0.845
##	5.755	10623	1	0.838	0.003253	0.832	0.845
##	5.771	10622	1	0.838	0.003254	0.832	0.844
##	5.774	10621	1	0.838	0.003254	0.832	0.844
##	5.782	10620	2	0.838	0.003255	0.831	0.844
##	5.793	10618	1	0.838	0.003256	0.831	0.844
##	5.796	10617	2	0.838	0.003257	0.831	0.844
##	5.807	10615	1	0.838	0.003258	0.831	0.844
##	5.818	10614	1	0.838	0.003259	0.831	0.844
##	5.826	10613	1	0.837	0.003259	0.831	0.844
##	5.829	10612	2	0.837	0.003261	0.831	0.844
##	5.834	10610	1	0.837	0.003261	0.831	0.843
##	5.837	10608	1	0.837	0.003262	0.831	0.843
##	5.851	10607	1	0.837	0.003263	0.831	0.843
##	5.862	10606	1	0.837	0.003263	0.830	0.843
##	5.870	10605	1	0.837	0.003264	0.830	0.843
##	5.873	10604	1	0.837	0.003265	0.830	0.843
##	5.878	10603	1	0.837	0.003265	0.830	0.843
##	5.884	10602	1	0.837	0.003266	0.830	0.843
##	5.886	10601	1	0.837	0.003267	0.830	0.843
##	5.889	10600	1	0.837	0.003267	0.830	0.843
##	5.892	10597	2	0.836	0.003268	0.830	0.843
##	5.895	10595	2	0.836	0.003270	0.830	0.842
##	5.897	10593	1	0.836	0.003270	0.830	0.842
##	5.903	10592	1	0.836	0.003271	0.830	0.842
##	5.933	10591	2	0.836	0.003272	0.829	0.842

##	5.941	10588	1	0.836	0.003273	0.829	0.842
##	5.966	10587	1	0.836	0.003274	0.829	0.842
##	5.971	10586	1	0.836	0.003274	0.829	0.842
##	5.974	10585	1	0.836	0.003275	0.829	0.842
##	5.979	10584	1	0.835	0.003276	0.829	0.842
##	5.985	10582	2	0.835	0.003277	0.829	0.842
##	5.988	10580	1	0.835	0.003277	0.829	0.842
##	6.001	10578	1	0.835	0.003278	0.829	0.841
##	6.007	10577	2	0.835	0.003279	0.828	0.841
##	6.010	10575	1	0.835	0.003280	0.828	0.841
##	6.012	10574	2	0.835	0.003281	0.828	0.841
##	6.023	10572	2	0.835	0.003283	0.828	0.841
##	6.040	10570	1	0.835	0.003283	0.828	0.841
##	6.081	10568	1	0.834	0.003284	0.828	0.841
##	6.086	10567	1	0.834	0.003284	0.828	0.841
##	6.092	10566	1	0.834	0.003285	0.828	0.841
##	6.094	10565	1	0.834	0.003286	0.828	0.841
##	6.103	10564	1	0.834	0.003286	0.828	0.840
##	6.116	10562	1	0.834	0.003287	0.828	0.840
##	6.127	10561	2	0.834	0.003288	0.827	0.840
##	6.130	10559	2	0.834	0.003290	0.827	0.840
##	6.149	10555	1	0.834	0.003290	0.827	0.840
##	6.155	10554	1	0.834	0.003291	0.827	0.840
##	6.163	10553	1	0.834	0.003291	0.827	0.840
##	6.179	10552	1	0.833	0.003292	0.827	0.840
##	6.188	10551	1	0.833	0.003293	0.827	0.840
##	6.212	10549	1	0.833	0.003293	0.827	0.840
##	6.218	10547	1	0.833	0.003294	0.827	0.840
##	6.231	10546	1	0.833	0.003295	0.827	0.839
##	6.240	10545	1	0.833	0.003295	0.826	0.839
##	6.245	10544	1	0.833	0.003296	0.826	0.839
##	6.261	10543	1	0.833	0.003297	0.826	0.839
##	6.264	10541	1	0.833	0.003297	0.826	0.839
##	6.267	10540	1	0.833	0.003298	0.826	0.839
##	6.292	10537	1	0.833	0.003298	0.826	0.839
##	6.297	10536	1	0.833	0.003299	0.826	0.839
##	6.303	10534	1	0.832	0.003300	0.826	0.839
##	6.305	10533	1	0.832	0.003300	0.826	0.839
##	6.311	10532	1	0.832	0.003301	0.826	0.839
##	6.313	10531	1	0.832	0.003302	0.826	0.839
##	6.327	10530	1	0.832	0.003302	0.826	0.839
##	6.335	10529	1	0.832	0.003303	0.825	0.838
##	6.344	10528	1	0.832	0.003304	0.825	0.838
##	6.376	10525	1	0.832	0.003304	0.825	0.838
##	6.387	10524	1	0.832	0.003305	0.825	0.838
##	6.390	10523	1	0.832	0.003305	0.825	0.838

##	6.404	10522	1	0.832	0.003306	0.825	0.838
##	6.412	10521	1	0.832	0.003307	0.825	0.838
##	6.418	10520	1	0.832	0.003307	0.825	0.838
##	6.423	10519	2	0.831	0.003309	0.825	0.838
##	6.437	10517	1	0.831	0.003309	0.825	0.838
##	6.450	10516	1	0.831	0.003310	0.825	0.838
##	6.464	10515	1	0.831	0.003310	0.825	0.838
##	6.472	10514	1	0.831	0.003311	0.824	0.837
##	6.494	10513	1	0.831	0.003312	0.824	0.837
##	6.505	10511	1	0.831	0.003312	0.824	0.837
##	6.508	10510	1	0.831	0.003313	0.824	0.837
##	6.522	10509	1	0.831	0.003314	0.824	0.837
##	6.533	10508	1	0.831	0.003314	0.824	0.837
##	6.557	10507	2	0.831	0.003315	0.824	0.837
##	6.582	10504	2	0.830	0.003317	0.824	0.837
##	6.593	10501	1	0.830	0.003317	0.824	0.837
##	6.631	10500	3	0.830	0.003319	0.823	0.836
##	6.645	10495	1	0.830	0.003320	0.823	0.836
##	6.656	10494	2	0.830	0.003321	0.823	0.836
##	6.661	10492	1	0.830	0.003322	0.823	0.836
##	6.664	10491	1	0.830	0.003322	0.823	0.836
##	6.667	10490	1	0.830	0.003323	0.823	0.836
##	6.669	10489	1	0.829	0.003324	0.823	0.836
##	6.672	10488	1	0.829	0.003324	0.823	0.836
##	6.678	10487	1	0.829	0.003325	0.823	0.836
##	6.700	10486	1	0.829	0.003325	0.823	0.836
##	6.702	10485	1	0.829	0.003326	0.823	0.836
##	6.705	10484	2	0.829	0.003327	0.822	0.835
##	6.719	10481	1	0.829	0.003328	0.822	0.835
##	6.724	10480	1	0.829	0.003329	0.822	0.835
##	6.735	10479	1	0.829	0.003329	0.822	0.835
##	6.749	10478	2	0.829	0.003330	0.822	0.835
##	6.752	10476	2	0.828	0.003332	0.822	0.835
##	6.754	10474	1	0.828	0.003332	0.822	0.835
##	6.762	10473	1	0.828	0.003333	0.822	0.835
##	6.795	10470	1	0.828	0.003334	0.822	0.835
##	6.798	10468	1	0.828	0.003334	0.821	0.835
##	6.806	10466	1	0.828	0.003335	0.821	0.834
##	6.836	10463	1	0.828	0.003335	0.821	0.834
##	6.839	10462	1	0.828	0.003336	0.821	0.834
##	6.856	10460	1	0.828	0.003337	0.821	0.834
##	6.861	10459	1	0.828	0.003337	0.821	0.834
##	6.864	10458	1	0.828	0.003338	0.821	0.834
##	6.902	10457	1	0.828	0.003339	0.821	0.834
##	6.910	10456	1	0.827	0.003339	0.821	0.834
##	6.913	10455	1	0.827	0.003340	0.821	0.834

##	6.916	10454	1	0.827	0.003340	0.821	0.834
##	6.927	10452	1	0.827	0.003341	0.821	0.834
##	6.930	10451	1	0.827	0.003342	0.821	0.834
##	6.935	10450	1	0.827	0.003342	0.820	0.834
##	6.954	10448	1	0.827	0.003343	0.820	0.833
##	6.965	10446	1	0.827	0.003343	0.820	0.833
##	6.976	10445	1	0.827	0.003344	0.820	0.833
##	6.979	10444	1	0.827	0.003345	0.820	0.833
##	6.982	10443	1	0.827	0.003345	0.820	0.833
##	6.998	10442	1	0.827	0.003346	0.820	0.833
##	7.001	10441	1	0.827	0.003347	0.820	0.833
##	7.006	10439	1	0.826	0.003347	0.820	0.833
##	7.009	10438	1	0.826	0.003348	0.820	0.833
##	7.014	10437	2	0.826	0.003349	0.820	0.833
##	7.055	10435	1	0.826	0.003350	0.819	0.833
##	7.058	10434	1	0.826	0.003350	0.819	0.833
##	7.069	10433	3	0.826	0.003352	0.819	0.832
##	7.080	10429	2	0.826	0.003353	0.819	0.832
##	7.083	10427	1	0.826	0.003354	0.819	0.832
##	7.118	10424	1	0.826	0.003355	0.819	0.832
##	7.143	10423	1	0.825	0.003355	0.819	0.832
##	7.146	10421	1	0.825	0.003356	0.819	0.832
##	7.149	10420	1	0.825	0.003356	0.819	0.832
##	7.184	10418	1	0.825	0.003357	0.819	0.832
##	7.192	10416	1	0.825	0.003358	0.818	0.832
##	7.255	10412	1	0.825	0.003358	0.818	0.832
##	7.285	10411	1	0.825	0.003359	0.818	0.831
##	7.294	10409	2	0.825	0.003360	0.818	0.831
##	7.324	10405	1	0.825	0.003361	0.818	0.831
##	7.348	10402	1	0.825	0.003361	0.818	0.831
##	7.384	10401	1	0.825	0.003362	0.818	0.831
##	7.392	10400	1	0.824	0.003363	0.818	0.831
##	7.409	10399	2	0.824	0.003364	0.818	0.831
##	7.431	10397	1	0.824	0.003364	0.818	0.831
##	7.444	10395	2	0.824	0.003366	0.817	0.831
##	7.450	10393	1	0.824	0.003366	0.817	0.831
##	7.463	10391	1	0.824	0.003367	0.817	0.830
##	7.469	10390	1	0.824	0.003367	0.817	0.830
##	7.474	10389	1	0.824	0.003368	0.817	0.830
##	7.477	10388	1	0.824	0.003369	0.817	0.830
##	7.485	10387	1	0.824	0.003369	0.817	0.830
##	7.496	10386	1	0.824	0.003370	0.817	0.830
##	7.518	10385	1	0.823	0.003370	0.817	0.830
##	7.526	10384	1	0.823	0.003371	0.817	0.830
##	7.554	10383	1	0.823	0.003372	0.817	0.830
##	7.573	10381	1	0.823	0.003372	0.816	0.830

##	7.584	10380	1	0.823	0.003373	0.816	0.830
##	7.630	10379	1	0.823	0.003373	0.816	0.830
##	7.639	10378	1	0.823	0.003374	0.816	0.829
##	7.655	10377	1	0.823	0.003375	0.816	0.829
##	7.669	10376	1	0.823	0.003375	0.816	0.829
##	7.677	10375	1	0.823	0.003376	0.816	0.829
##	7.688	10374	1	0.823	0.003377	0.816	0.829
##	7.693	10373	1	0.823	0.003377	0.816	0.829
##	7.699	10371	1	0.823	0.003378	0.816	0.829
##	7.743	10369	1	0.822	0.003378	0.816	0.829
##	7.756	10367	1	0.822	0.003379	0.816	0.829
##	7.759	10366	1	0.822	0.003380	0.816	0.829
##	7.767	10365	1	0.822	0.003380	0.815	0.829
##	7.770	10364	1	0.822	0.003381	0.815	0.829
##	7.786	10363	1	0.822	0.003381	0.815	0.829
##	7.797	10362	1	0.822	0.003382	0.815	0.828
##	7.806	10360	1	0.822	0.003383	0.815	0.828
##	7.817	10358	2	0.822	0.003384	0.815	0.828
##	7.833	10356	1	0.822	0.003384	0.815	0.828
##	7.849	10353	1	0.822	0.003385	0.815	0.828
##	7.852	10352	1	0.821	0.003386	0.815	0.828
##	7.855	10351	1	0.821	0.003386	0.815	0.828
##	7.885	10349	1	0.821	0.003387	0.815	0.828
##	7.893	10348	1	0.821	0.003387	0.814	0.828
##	7.923	10346	1	0.821	0.003388	0.814	0.828
##	7.929	10344	1	0.821	0.003389	0.814	0.828
##	7.937	10343	1	0.821	0.003389	0.814	0.828
##	7.945	10342	1	0.821	0.003390	0.814	0.827
##	7.964	10341	1	0.821	0.003390	0.814	0.827
##	7.973	10340	2	0.821	0.003392	0.814	0.827
##	7.986	10338	1	0.821	0.003392	0.814	0.827
##	8.033	10334	1	0.821	0.003393	0.814	0.827
##	8.049	10333	1	0.820	0.003393	0.814	0.827
##	8.052	10332	1	0.820	0.003394	0.814	0.827
##	8.068	10331	1	0.820	0.003395	0.814	0.827
##	8.079	10330	1	0.820	0.003395	0.813	0.827
##	8.096	10329	1	0.820	0.003396	0.813	0.827
##	8.101	10328	1	0.820	0.003396	0.813	0.827
##	8.156	10327	2	0.820	0.003398	0.813	0.826
##	8.159	10324	1	0.820	0.003398	0.813	0.826
##	8.162	10323	1	0.820	0.003399	0.813	0.826
##	8.178	10322	1	0.820	0.003399	0.813	0.826
##	8.197	10320	2	0.819	0.003401	0.813	0.826
##	8.266	10318	1	0.819	0.003401	0.813	0.826
##	8.279	10317	2	0.819	0.003402	0.812	0.826
##	8.287	10315	2	0.819	0.003404	0.812	0.826

##	8.290	10313	1	0.819	0.003404	0.812	0.826
##	8.312	10312	1	0.819	0.003405	0.812	0.825
##	8.326	10310	1	0.819	0.003405	0.812	0.825
##	8.359	10309	1	0.819	0.003406	0.812	0.825
##	8.375	10306	1	0.819	0.003407	0.812	0.825
##	8.430	10303	2	0.819	0.003408	0.812	0.825
##	8.433	10301	1	0.818	0.003408	0.812	0.825
##	8.507	10298	1	0.818	0.003409	0.812	0.825
##	8.531	10297	1	0.818	0.003410	0.812	0.825
##	8.534	10296	1	0.818	0.003410	0.811	0.825
##	8.548	10295	1	0.818	0.003411	0.811	0.825
##	8.567	10294	1	0.818	0.003411	0.811	0.825
##	8.569	10293	1	0.818	0.003412	0.811	0.825
##	8.575	10292	1	0.818	0.003413	0.811	0.824
##	8.600	10290	1	0.818	0.003413	0.811	0.824
##	8.638	10288	1	0.818	0.003414	0.811	0.824
##	8.641	10287	2	0.818	0.003415	0.811	0.824
##	8.643	10285	1	0.818	0.003415	0.811	0.824
##	8.646	10284	1	0.817	0.003416	0.811	0.824
##	8.695	10282	1	0.817	0.003417	0.811	0.824
##	8.709	10281	1	0.817	0.003417	0.810	0.824
##	8.753	10280	1	0.817	0.003418	0.810	0.824
##	8.761	10279	1	0.817	0.003418	0.810	0.824
##	8.767	10278	1	0.817	0.003419	0.810	0.824
##	8.769	10277	1	0.817	0.003420	0.810	0.824
##	8.794	10276	1	0.817	0.003420	0.810	0.823
##	8.805	10275	1	0.817	0.003421	0.810	0.823
##	8.808	10274	1	0.817	0.003421	0.810	0.823
##	8.854	10273	1	0.817	0.003422	0.810	0.823
##	8.882	10272	1	0.817	0.003423	0.810	0.823
##	8.928	10269	1	0.816	0.003423	0.810	0.823
##	8.950	10268	1	0.816	0.003424	0.810	0.823
##	8.966	10267	1	0.816	0.003424	0.809	0.823
##	8.972	10266	2	0.816	0.003426	0.809	0.823
##	8.975	10264	1	0.816	0.003426	0.809	0.823
##	9.010	10262	1	0.816	0.003427	0.809	0.823
##	9.018	10261	1	0.816	0.003427	0.809	0.823
##	9.076	10258	1	0.816	0.003428	0.809	0.822
##	9.098	10256	1	0.816	0.003428	0.809	0.822
##	9.101	10255	1	0.816	0.003429	0.809	0.822
##	9.112	10254	1	0.816	0.003430	0.809	0.822
##	9.125	10253	1	0.816	0.003430	0.809	0.822
##	9.136	10251	1	0.815	0.003431	0.809	0.822
##	9.175	10249	1	0.815	0.003431	0.809	0.822
##	9.188	10248	2	0.815	0.003433	0.808	0.822
##	9.202	10246	1	0.815	0.003433	0.808	0.822

##	9.221	10245	1	0.815	0.003434	0.808	0.822
##	9.235	10244	1	0.815	0.003434	0.808	0.822
##	9.238	10243	1	0.815	0.003435	0.808	0.822
##	9.243	10242	1	0.815	0.003436	0.808	0.821
##	9.254	10241	1	0.815	0.003436	0.808	0.821
##	9.300	10239	1	0.815	0.003437	0.808	0.821
##	9.311	10238	1	0.815	0.003437	0.808	0.821
##	9.339	10235	1	0.814	0.003438	0.808	0.821
##	9.374	10234	1	0.814	0.003438	0.808	0.821
##	9.383	10233	1	0.814	0.003439	0.807	0.821
##	9.391	10232	1	0.814	0.003440	0.807	0.821
##	9.410	10231	1	0.814	0.003440	0.807	0.821
##	9.415	10229	1	0.814	0.003441	0.807	0.821
##	9.418	10228	1	0.814	0.003441	0.807	0.821
##	9.473	10227	1	0.814	0.003442	0.807	0.821
##	9.511	10225	1	0.814	0.003443	0.807	0.820
##	9.541	10224	1	0.814	0.003443	0.807	0.820
##	9.544	10223	1	0.814	0.003444	0.807	0.820
##	9.588	10220	1	0.814	0.003444	0.807	0.820
##	9.591	10219	1	0.814	0.003445	0.807	0.820
##	9.637	10217	1	0.813	0.003445	0.807	0.820
##	9.771	10216	1	0.813	0.003446	0.807	0.820
##	9.788	10215	1	0.813	0.003447	0.806	0.820
##	9.823	10213	1	0.813	0.003447	0.806	0.820
##	9.848	10211	1	0.813	0.003448	0.806	0.820
##	9.870	10209	1	0.813	0.003448	0.806	0.820
##	9.900	10208	1	0.813	0.003449	0.806	0.820
##	9.906	10207	1	0.813	0.003450	0.806	0.820
##	9.919	10206	1	0.813	0.003450	0.806	0.819
##	9.938	10203	1	0.813	0.003451	0.806	0.819
##	9.944	10202	1	0.813	0.003451	0.806	0.819
##	9.969	10201	1	0.813	0.003452	0.806	0.819
##	9.985	10200	1	0.812	0.003452	0.806	0.819
##	10.018	10198	1	0.812	0.003453	0.806	0.819
##	10.064	10197	1	0.812	0.003454	0.805	0.819
##	10.073	10196	1	0.812	0.003454	0.805	0.819
##	10.086	10195	1	0.812	0.003455	0.805	0.819
##	10.094	10193	1	0.812	0.003455	0.805	0.819
##	10.119	10191	1	0.812	0.003456	0.805	0.819
##	10.155	10190	2	0.812	0.003457	0.805	0.819
##	10.179	10186	1	0.812	0.003458	0.805	0.818
##	10.193	10185	1	0.812	0.003458	0.805	0.818
##	10.196	10184	1	0.812	0.003459	0.805	0.818
##	10.220	10183	1	0.812	0.003459	0.805	0.818
##	10.237	10182	1	0.811	0.003460	0.805	0.818
##	10.245	10181	1	0.811	0.003461	0.804	0.818

##	10.248	10180	1	0.811	0.003461	0.804	0.818
##	10.308	10178	1	0.811	0.003462	0.804	0.818
##	10.363	10176	1	0.811	0.003462	0.804	0.818
##	10.382	10175	1	0.811	0.003463	0.804	0.818
##	10.393	10174	1	0.811	0.003463	0.804	0.818
##	10.412	10172	1	0.811	0.003464	0.804	0.818
##	10.418	10171	1	0.811	0.003465	0.804	0.818
##	10.439	10170	1	0.811	0.003465	0.804	0.817
##	10.464	10169	1	0.811	0.003466	0.804	0.817
##	10.489	10168	1	0.811	0.003466	0.804	0.817
##	10.511	10167	1	0.810	0.003467	0.804	0.817
##	10.522	10166	1	0.810	0.003467	0.804	0.817
##	10.533	10164	1	0.810	0.003468	0.803	0.817
##	10.571	10162	1	0.810	0.003469	0.803	0.817
##	10.598	10161	1	0.810	0.003469	0.803	0.817
##	10.601	10160	1	0.810	0.003470	0.803	0.817
##	10.637	10158	1	0.810	0.003470	0.803	0.817
##	10.653	10156	1	0.810	0.003471	0.803	0.817
##	10.675	10155	1	0.810	0.003471	0.803	0.817
##	10.680	10154	1	0.810	0.003472	0.803	0.816
##	10.724	10152	1	0.810	0.003473	0.803	0.816
##	10.752	10151	1	0.810	0.003473	0.803	0.816
##	10.817	10149	1	0.810	0.003474	0.803	0.816
##	10.825	10146	1	0.809	0.003474	0.803	0.816
##	10.836	10145	1	0.809	0.003475	0.802	0.816
##	10.842	10144	1	0.809	0.003476	0.802	0.816
##	10.861	10143	1	0.809	0.003476	0.802	0.816
##	10.869	10142	1	0.809	0.003477	0.802	0.816
##	10.927	10140	1	0.809	0.003477	0.802	0.816
##	10.973	10137	1	0.809	0.003478	0.802	0.816
##	10.992	10136	1	0.809	0.003478	0.802	0.816
##	10.995	10135	1	0.809	0.003479	0.802	0.816
##	11.020	10134	1	0.809	0.003480	0.802	0.815
##	11.039	10133	1	0.809	0.003480	0.802	0.815
##	11.077	10132	2	0.809	0.003481	0.802	0.815
##	11.107	10129	1	0.808	0.003482	0.801	0.815
##	11.127	10127	1	0.808	0.003482	0.801	0.815
##	11.129	10126	1	0.808	0.003483	0.801	0.815
##	11.149	10124	1	0.808	0.003484	0.801	0.815
##	11.211	10123	1	0.808	0.003484	0.801	0.815
##	11.225	10122	1	0.808	0.003485	0.801	0.815
##	11.231	10121	2	0.808	0.003486	0.801	0.815
##	11.239	10119	1	0.808	0.003486	0.801	0.815
##	11.266	10118	1	0.808	0.003487	0.801	0.814
##	11.351	10116	1	0.808	0.003487	0.801	0.814
##	11.359	10115	1	0.808	0.003488	0.801	0.814

##	11.381	10112	1	0.807	0.003489	0.801	0.814
##	11.392	10111	1	0.807	0.003489	0.800	0.814
##	11.463	10110	1	0.807	0.003490	0.800	0.814
##	11.521	10108	1	0.807	0.003490	0.800	0.814
##	11.548	10107	1	0.807	0.003491	0.800	0.814
##	11.559	10106	1	0.807	0.003491	0.800	0.814
##	11.567	10105	1	0.807	0.003492	0.800	0.814
##	11.578	10104	1	0.807	0.003493	0.800	0.814
##	11.584	10103	1	0.807	0.003493	0.800	0.814
##	11.603	10101	1	0.807	0.003494	0.800	0.813
##	11.608	10100	1	0.807	0.003494	0.800	0.813
##	11.633	10097	1	0.807	0.003495	0.800	0.813
##	11.658	10095	1	0.807	0.003495	0.800	0.813
##	11.693	10092	1	0.806	0.003496	0.799	0.813
##	11.737	10090	1	0.806	0.003497	0.799	0.813
##	11.792	10089	1	0.806	0.003497	0.799	0.813
##	11.858	10087	1	0.806	0.003498	0.799	0.813
##	11.869	10086	1	0.806	0.003498	0.799	0.813
##	11.874	10085	1	0.806	0.003499	0.799	0.813
##	11.896	10084	1	0.806	0.003499	0.799	0.813
##	11.912	10083	1	0.806	0.003500	0.799	0.813
##	11.986	10080	1	0.806	0.003501	0.799	0.813
##	12.025	10079	1	0.806	0.003501	0.799	0.812
##	12.068	10077	2	0.806	0.003502	0.799	0.812
##	12.120	10074	1	0.805	0.003503	0.798	0.812
##	12.145	10073	2	0.805	0.003504	0.798	0.812
##	12.151	10071	1	0.805	0.003505	0.798	0.812
##	12.156	10070	1	0.805	0.003505	0.798	0.812
##	12.170	10069	1	0.805	0.003506	0.798	0.812
##	12.189	10068	1	0.805	0.003506	0.798	0.812
##	12.208	10066	1	0.805	0.003507	0.798	0.812
##	12.214	10065	1	0.805	0.003507	0.798	0.812
##	12.233	10064	1	0.805	0.003508	0.798	0.812
##	12.249	10063	1	0.805	0.003508	0.798	0.811
##	12.255	10061	1	0.805	0.003509	0.798	0.811
##	12.296	10058	1	0.805	0.003510	0.798	0.811
##	12.359	10055	1	0.804	0.003510	0.797	0.811
##	12.367	10054	1	0.804	0.003511	0.797	0.811
##	12.397	10053	1	0.804	0.003511	0.797	0.811
##	12.411	10052	1	0.804	0.003512	0.797	0.811
##	12.413	10051	1	0.804	0.003512	0.797	0.811
##	12.427	10050	1	0.804	0.003513	0.797	0.811
##	12.446	10049	1	0.804	0.003514	0.797	0.811
##	12.474	10046	1	0.804	0.003514	0.797	0.811
##	12.479	10045	1	0.804	0.003515	0.797	0.811
##	12.490	10044	1	0.804	0.003515	0.797	0.810

##	12.512	10043	1	0.804	0.003516	0.797	0.810
##	12.526	10042	1	0.804	0.003516	0.797	0.810
##	12.528	10041	1	0.803	0.003517	0.796	0.810
##	12.553	10039	1	0.803	0.003517	0.796	0.810
##	12.600	10037	1	0.803	0.003518	0.796	0.810
##	12.663	10036	1	0.803	0.003519	0.796	0.810
##	12.693	10035	1	0.803	0.003519	0.796	0.810
##	12.736	10033	1	0.803	0.003520	0.796	0.810
##	12.783	10030	1	0.803	0.003520	0.796	0.810
##	12.786	10029	1	0.803	0.003521	0.796	0.810
##	12.789	10028	1	0.803	0.003521	0.796	0.810
##	12.802	10027	1	0.803	0.003522	0.796	0.810
##	12.808	10026	1	0.803	0.003522	0.796	0.809
##	12.821	10025	1	0.803	0.003523	0.796	0.809
##	12.857	10024	1	0.803	0.003524	0.795	0.809
##	12.923	10022	1	0.802	0.003524	0.795	0.809
##	12.931	10020	1	0.802	0.003525	0.795	0.809
##	12.936	10019	1	0.802	0.003525	0.795	0.809
##	12.966	10017	1	0.802	0.003526	0.795	0.809
##	12.969	10016	1	0.802	0.003526	0.795	0.809
##	12.975	10015	1	0.802	0.003527	0.795	0.809
##	12.991	10014	1	0.802	0.003527	0.795	0.809
##	13.002	10012	2	0.802	0.003529	0.795	0.809
##	13.024	10010	1	0.802	0.003529	0.795	0.809
##	13.032	10009	1	0.802	0.003530	0.795	0.808
##	13.043	10008	1	0.802	0.003530	0.795	0.808
##	13.092	10007	1	0.801	0.003531	0.794	0.808
##	13.123	10006	1	0.801	0.003531	0.794	0.808
##	13.128	10005	1	0.801	0.003532	0.794	0.808
##	13.147	10003	1	0.801	0.003532	0.794	0.808
##	13.153	10002	1	0.801	0.003533	0.794	0.808
##	13.166	10001	1	0.801	0.003534	0.794	0.808
##	13.213	9998	1	0.801	0.003534	0.794	0.808
##	13.221	9997	1	0.801	0.003535	0.794	0.808
##	13.224	9996	1	0.801	0.003535	0.794	0.808
##	13.240	9995	1	0.801	0.003536	0.794	0.808
##	13.243	9994	1	0.801	0.003536	0.794	0.807
##	13.270	9991	1	0.801	0.003537	0.794	0.807
##	13.290	9990	1	0.801	0.003537	0.793	0.807
##	13.295	9989	1	0.800	0.003538	0.793	0.807
##	13.306	9988	1	0.800	0.003539	0.793	0.807
##	13.344	9985	1	0.800	0.003539	0.793	0.807
##	13.352	9984	1	0.800	0.003540	0.793	0.807
##	13.385	9983	1	0.800	0.003540	0.793	0.807
##	13.388	9982	1	0.800	0.003541	0.793	0.807
##	13.440	9981	1	0.800	0.003541	0.793	0.807

##	13.454	9979	1	0.800	0.003542	0.793	0.807
##	13.459	9978	1	0.800	0.003542	0.793	0.807
##	13.514	9977	1	0.800	0.003543	0.793	0.807
##	13.550	9975	1	0.800	0.003544	0.793	0.806
##	13.558	9974	1	0.800	0.003544	0.792	0.806
##	13.588	9972	1	0.799	0.003545	0.792	0.806
##	13.613	9971	1	0.799	0.003545	0.792	0.806
##	13.656	9969	1	0.799	0.003546	0.792	0.806
##	13.659	9968	1	0.799	0.003546	0.792	0.806
##	13.662	9967	1	0.799	0.003547	0.792	0.806
##	13.736	9966	1	0.799	0.003547	0.792	0.806
##	13.777	9963	1	0.799	0.003548	0.792	0.806
##	13.796	9962	1	0.799	0.003549	0.792	0.806
##	13.804	9961	1	0.799	0.003549	0.792	0.806
##	13.807	9960	1	0.799	0.003550	0.792	0.806
##	13.818	9959	1	0.799	0.003550	0.792	0.806
##	13.829	9957	1	0.799	0.003551	0.792	0.805
##	13.867	9955	1	0.798	0.003551	0.791	0.805
##	13.875	9954	1	0.798	0.003552	0.791	0.805
##	13.892	9950	1	0.798	0.003552	0.791	0.805
##	13.906	9949	1	0.798	0.003553	0.791	0.805
##	13.911	9948	1	0.798	0.003553	0.791	0.805
##	13.936	9947	1	0.798	0.003554	0.791	0.805
##	13.949	9946	1	0.798	0.003555	0.791	0.805
##	13.963	9944	1	0.798	0.003555	0.791	0.805
##	13.993	9943	1	0.798	0.003556	0.791	0.805
##	14.007	9942	1	0.798	0.003556	0.791	0.805
##	14.010	9941	1	0.798	0.003557	0.791	0.805
##	14.026	9939	1	0.798	0.003557	0.791	0.804
##	14.034	9937	1	0.798	0.003558	0.790	0.804
##	14.067	9936	2	0.797	0.003559	0.790	0.804
##	14.094	9934	1	0.797	0.003559	0.790	0.804
##	14.174	9932	1	0.797	0.003560	0.790	0.804
##	14.204	9931	1	0.797	0.003561	0.790	0.804
##	14.240	9929	1	0.797	0.003561	0.790	0.804
##	14.253	9928	1	0.797	0.003562	0.790	0.804
##	14.267	9926	1	0.797	0.003562	0.790	0.804
##	14.270	9925	1	0.797	0.003563	0.790	0.804
##	14.305	9924	1	0.797	0.003563	0.790	0.804
##	14.313	9922	1	0.797	0.003564	0.790	0.804
##	14.327	9921	1	0.797	0.003564	0.789	0.803
##	14.393	9920	1	0.796	0.003565	0.789	0.803
##	14.396	9919	1	0.796	0.003565	0.789	0.803
##	14.401	9918	1	0.796	0.003566	0.789	0.803
##	14.409	9917	1	0.796	0.003567	0.789	0.803
##	14.442	9914	1	0.796	0.003567	0.789	0.803

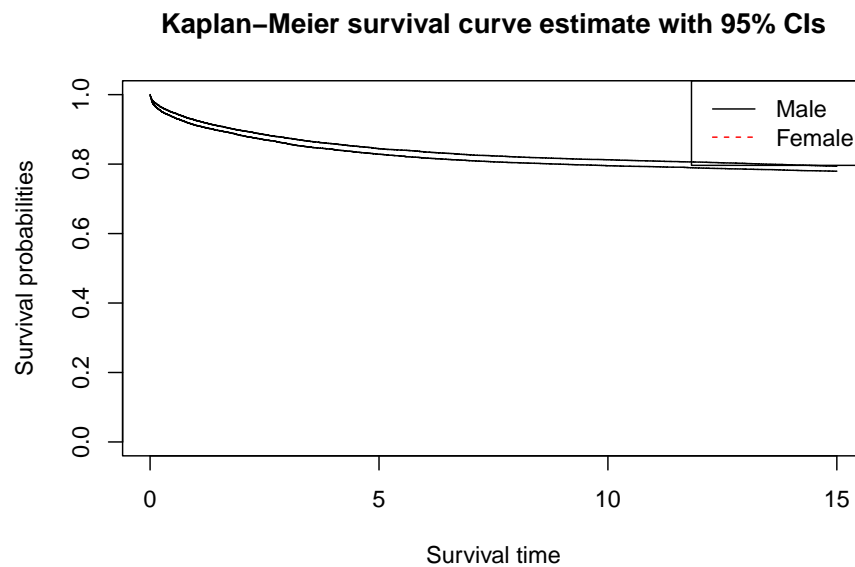
```
## 14.450 9913 1 0.796 0.003568 0.789 0.803
## 14.456 9912 1 0.796 0.003568 0.789 0.803
## 14.508 9910 1 0.796 0.003569 0.789 0.803
## 14.533 9907 1 0.796 0.003569 0.789 0.803
## 14.541 9906 1 0.796 0.003570 0.789 0.803
## 14.543 9905 1 0.796 0.003570 0.789 0.803
## 14.546 9904 1 0.796 0.003571 0.789 0.803
## 14.582 9902 1 0.796 0.003571 0.788 0.802
## 14.590 9901 1 0.795 0.003572 0.788 0.802
## 14.623 9900 1 0.795 0.003573 0.788 0.802
## 14.650 9899 1 0.795 0.003573 0.788 0.802
## 14.656 9898 1 0.795 0.003574 0.788 0.802
## 14.683 9895 1 0.795 0.003574 0.788 0.802
## 14.705 9894 1 0.795 0.003575 0.788 0.802
## 14.713 9893 1 0.795 0.003575 0.788 0.802
## 14.730 9891 1 0.795 0.003576 0.788 0.802
## 14.765 9890 1 0.795 0.003576 0.788 0.802
## 14.768 9889 1 0.795 0.003577 0.788 0.802
## 14.773 9888 1 0.795 0.003577 0.788 0.802
## 14.776 9887 1 0.795 0.003578 0.787 0.801
## 14.779 9886 2 0.794 0.003579 0.787 0.801
## 14.839 9882 1 0.794 0.003580 0.787 0.801
## 14.916 9880 1 0.794 0.003580 0.787 0.801
## 14.943 9877 1 0.794 0.003581 0.787 0.801
## 14.968 9876 1 0.794 0.003581 0.787 0.801
## 14.976 9875 1 0.794 0.003582 0.787 0.801
## 14.998 9873 1 0.794 0.003582 0.787 0.801
```

```
summary(bysex, times=c(0, 3, 6, 9, 12, 15)) # add time points
```

```
## Call: survfit(formula = Surv(enter, exit, event) ~ sex, data = child,
##      conf.type = "log-log")
##
##      sex=male
##   time n.risk n.event survival std.err lower 95% CI upper 95% CI
##    0  13676      0    1.000 0.00000    1.000    1.000
##    3  11614   1924    0.859 0.00298    0.853    0.865
##    6  10955    555    0.818 0.00331    0.811    0.824
##    9  10653    240    0.800 0.00344    0.793    0.806
##   12  10452    146    0.789 0.00351    0.782    0.795
##   15  10269    120    0.780 0.00356    0.773    0.786
##
##      sex=female
##   time n.risk n.event survival std.err lower 95% CI upper 95% CI
##    0  12898      0    1.000 0.00000    1.000    1.000
```

```
##      3 11152    1611    0.875 0.00292    0.869    0.880
##      6 10578    501   0.835 0.00328    0.829    0.842
##      9 10262    242   0.816 0.00343    0.809    0.823
##     12 10079    129   0.806 0.00350    0.799    0.813
##     15  9872    148   0.794 0.00358    0.787    0.801
```

```
## plots
plot(bysex,
     ylab = "Survival probabilities",
     xlab = "Survival time",
     #mark.time = T,
     main="Kaplan-Meier survival curve estimate with 95% CIs"
)
legend("topright", c("Male","Female"),
     lty=c("solid","dashed"), col=c("black","red"))
```



3.3.5 Better KM figures

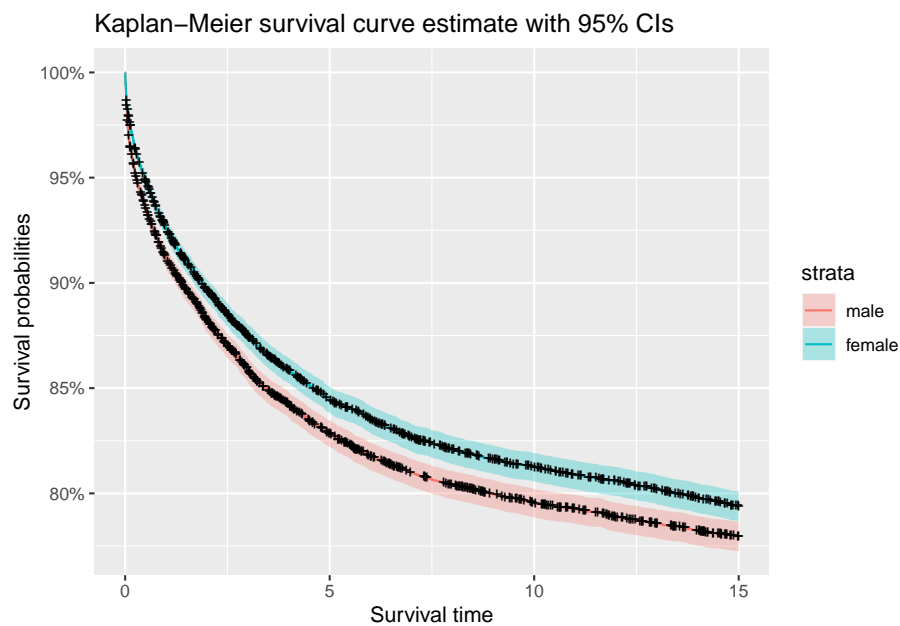
```
library(ggfortify)
library(ggplot2)

autoplot(bysex,
```

```

ylab = "Survival probabilities",
xlab = "Survival time",
#mark.time = T,
main="Kaplan-Meier survival curve estimate with 95% CIs"
)

```

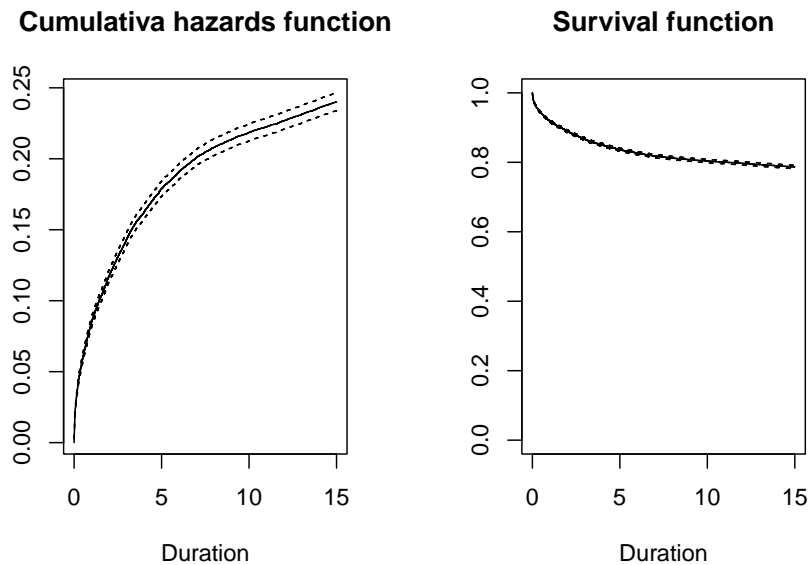


3.3.6 Nonparametric models using a *child* dataset from eha

```

## Plots
par(mfrow = c(1, 2))# Two panels, "one row, two columns".
with(child, plot(Surv(enter, exit, event), fun = "cumhaz",
               main = "Cumulative hazards function",
               xlab = "Duration"))
with(child, plot(Surv(enter, exit, event),
               main = "Survival function",
               xlab = "Duration"))

```



3.4 Proportional Hazards and Cox Regression

```
cox01 <- coxreg(Surv(enter, exit, event) ~ sex + socBranch + birthdate,
  data = child)

print(summary(cox01), digits = 4)
```

## Covariate	Mean	Coef	Rel.Risk	S.E.	LR p
## sex					0.0019
## male	0.510	0	1 (reference)		
## female	0.490	-0.083	0.920	0.027	
## socBranch					0.0001
## official	0.021	0	1 (reference)		
## farming	0.710	-0.017	0.983	0.092	
## business	0.011	0.330	1.391	0.141	
## worker	0.258	0.099	1.104	0.094	
## birthdate	1869-07-13	-0.000	1.000	0.000	0.0000
##					
## Events	5616				
## Total time at risk	325030				
## Max. log. likelihood	-56481				
## LR test statistic	67.10				

```
## Degrees of freedom      5
## Overall p-value        4.11227e-13
```

```
child$cohort <- floor(toTime(child$birthdate)) # age cohort

cox02 <- coxreg(Surv(enter, exit, event) ~ sex + socBranch + cohort,
               data = child)

print(summary(cox02), digits = 4)
```

```
## Covariate      Mean      Coef    Rel.Risk   S.E.    LR p
## sex
##      male      0.510      0        1 (reference)
##      female    0.490    -0.083    0.920    0.027
## socBranch
##      official  0.021      0        1 (reference)
##      farming   0.710    -0.017    0.984    0.092
##      business  0.011     0.330    1.390    0.141
##      worker    0.258     0.099    1.104    0.094
## cohort        1869.035   -0.008    0.992    0.001  0.0000
##
## Events          5616
## Total time at risk 325030
## Max. log. likelihood -56481
## LR test statistic  66.79
## Degrees of freedom  5
## Overall p-value    4.75731e-13
```

```
range(child$cohort)
```

```
## [1] 1850 1884
```

```
child$cohort <- child$cohort - 1860
cox03 <- coxreg(Surv(enter, exit, event) ~ sex + socBranch + cohort,
               data = child)

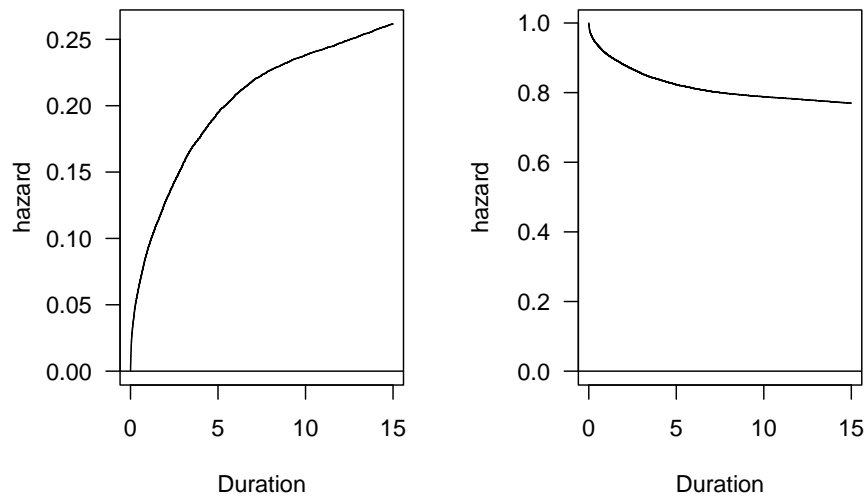
# Table
summary(cox03)
```

```
## Covariate      Mean      Coef    Rel.Risk   S.E.    LR p
## sex
##      male      0.510      0        1 (reference)
##
```



```
##          female      0.490    -0.083     0.920     0.027
## socBranch
##          official    0.021      0         1 (reference)
##          farming     0.710    -0.017     0.984     0.092
##          business    0.011     0.330     1.390     0.141
##          worker      0.258     0.099     1.104     0.094
## cohort              9.035    -0.008     0.992     0.001    0.000
##
## Events                5616
## Total time at risk    325030
## Max. log. likelihood  -56481
## LR test statistic      66.79
## Degrees of freedom     5
## Overall p-value        4.75731e-13
```

```
# Plots
par(mfrow = c(1, 2), las = 1)
plot(cox03,
      fn = "cum", main = "",
      #xlab="Duration (year)",
      ylab="hazard",
      #xlim=c(0, 1)
      #ylim=c(ymin, ymax)
)
plot(cox03,
      fn = "sur", main = "",
      #xlab="Duration (year)",
      ylab="hazard",
      #xlim=c(0, 1)
      #ylim=c(ymin, ymax)
)
```

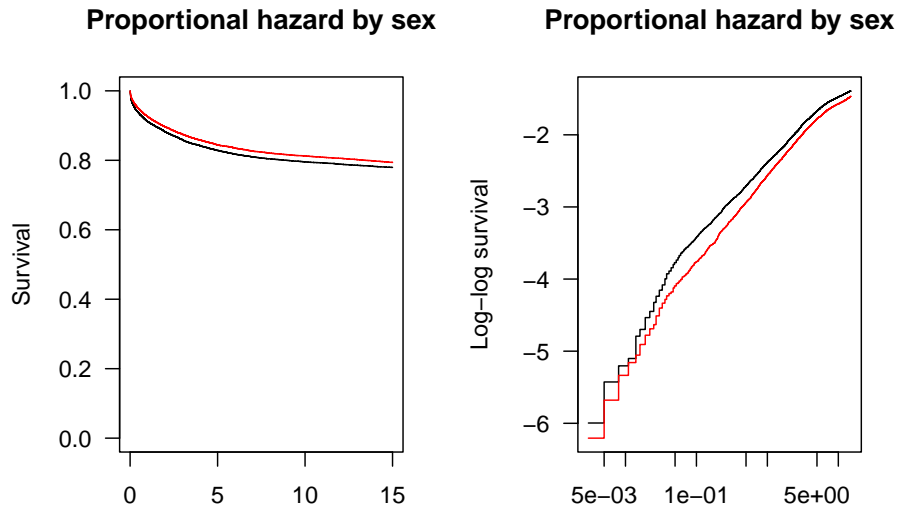


3.4.1 A visual check for a proportionality assumption

```
library(survival)

## Create survival vector for fish dataset
child$SurvObj <- with(child, Surv(enter, exit, event))

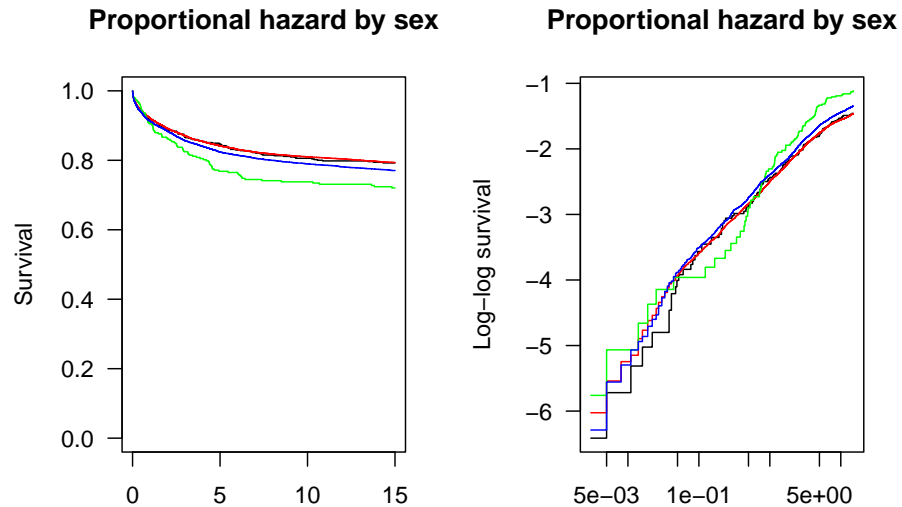
par(mfrow = c(1, 2), las = 1)
plot(survfit(SurvObj ~ sex, data=child),
     main = "Proportional hazard by sex",
     ylab = "Survival",
     col=c("black", "red"))
plot(survfit(SurvObj ~ sex, data=child),
     fun = "cloglog",
     ylab = "Log-log survival",
     main = "Proportional hazard by sex",
     col=c("black", "red"))
```



```
library(survival)

## Create survival vector for fish dataset
child$SurvObj <- with(child, Surv(enter, exit, event))

par(mfrow = c(1, 2), las = 1)
plot(survfit(SurvObj ~ socBranch, data=child),
     main = "Proportional hazard by sex",
     ylab = "Survival",
     col=c("black", "red", "green", "blue")
)
plot(survfit(SurvObj ~ socBranch, data=child),
     fun = "cloglog",
     ylab = "Log-log survival",
     main = "Proportional hazard by sex",
     col=c("black", "red", "green", "blue")
)
```



3.5 Parametric estimation

3.5.1 Weibull model

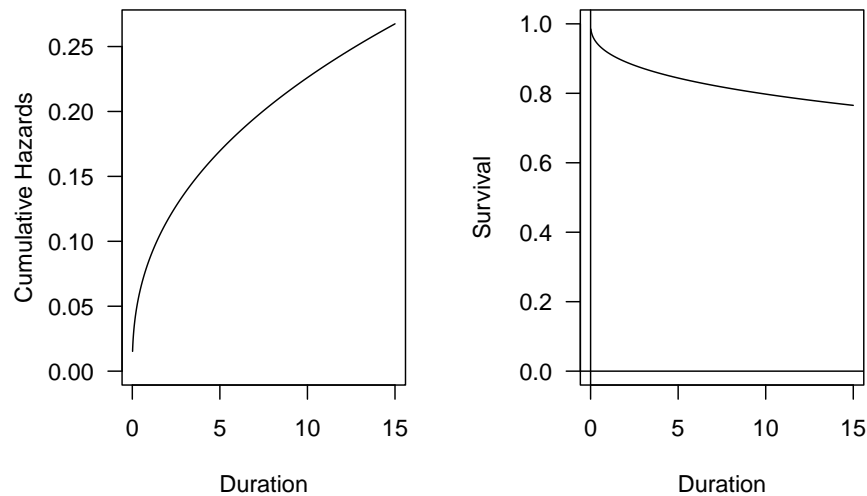
```
# Models
parm_weib <- phreg(Surv(enter, exit, event) ~ sex + socBranch + cohort ,
  dist = "weibull",
  data = child)
```

```
# Table
#print(summary(parm), digits = 4)
parm_weib
```

```
## Call:
## phreg(formula = Surv(enter, exit, event) ~ sex + socBranch +
##       cohort, data = child, dist = "weibull")
##
## Covariate      W.mean      Coef Exp(Coef)  se(Coef)    Wald p
## sex
##      male      0.510      0          1          (reference)
##      female    0.490    -0.083    0.920    0.027    0.002
```

```
## socBranch
##      official    0.021      0      1      (reference)
##      farming     0.710    -0.026    0.975    0.092    0.780
##      business    0.011     0.332    1.393    0.141    0.019
##      worker      0.258     0.092    1.097    0.094    0.329
## cohort          9.035    -0.008    0.992    0.001    0.000
##
## log(scale)              5.887              0.228    0.000
## log(shape)             -0.880              0.013    0.000
##
## Events                  5616
## Total time at risk      325030
## Max. log. likelihood   -25131
## LR test statistic       68.69
## Degrees of freedom      5
## Overall p-value        1.91736e-13
```

```
# Plots
par(mfrow = c(1, 2), las = 1)
plot(parm_weib,
     fn = "cum", main = "",
     #xlab="Duration (year)",
     ylab="hazard",
     #xlim=c(0, 1)
     #ylim=c(ymin, ymax)
)
plot(parm_weib,
     fn = "sur", main = "",
     #xlab="Duration (year)",
     ylab="Survival",
     #xlim=c(0, 1)
     #ylim=c(ymin, ymax)
)
```



3.5.2 Gompertz model

```
# Models
parm_gomp <- phreg(Surv(enter, exit, event) ~ sex + socBranch + cohort ,
  dist = "gompertz",
  data = child)

# Table
#print(summary(parm), digits = 4)
parm_gomp
```

```
## Call:
## phreg(formula = Surv(enter, exit, event) ~ sex + socBranch +
##       cohort, data = child, dist = "gompertz")
##
## Covariate      W.mean      Coef Exp(Coef)  se(Coef)    Wald p
## sex
##      male      0.510      0          1          (reference)
##      female    0.490    -0.087    0.916 NA          NA
## socBranch
##      official  0.021      0          1          (reference)
##      farming   0.710    -0.064    0.938 NA          NA
```

```
##          business    0.011    0.349    1.417 NA    NA
##          worker      0.258    0.066    1.068 NA    NA
## cohort              9.035   -0.008    0.992 NA    NA
##
## log(scale)                401.049        NA    NA
## log(shape)                397.124        NA    NA
##
## Events                    5616
## Total time at risk        325030
## Max. log. likelihood      -28368
## LR test statistic          78.89
## Degrees of freedom         5
## Overall p-value            1.44329e-15
```

```
# Plots
par(mfrow = c(1, 2), las = 1)
plot(parm_gomp,
     fn = "cum", main = "",
     #xlab="Duration (year)",
     ylab="hazard",
     #xlim=c(0, 1)
     #ylim=c(ymin, ymax)
)
plot(parm_gomp,
     fn = "sur", main = "",
     #xlab="Duration (year)",
     ylab="Survival",
     #xlim=c(0, 1)
     #ylim=c(ymin, ymax)
)
```

