Chapter 11 Survival Analysis

```
library(ISLR2)
library(survival)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

Exercise 1

Independent: a, d, e, g, i

Not independent: b, c, f, h

Exercise 2

	1	2	3	4
c	unknown	2	1.5	unknown
k	1.2	unknown	unknown	0.2
y	1.2	2	1.5	0.2
δ	1	0	0	1

Exercise 3

t	r_j	d_j	q_j
0	4	0	0
0.2	4	1	0
1.2	3	1	1
2	1	0	1

Exercise 4

a

S(50) = 0.6

b

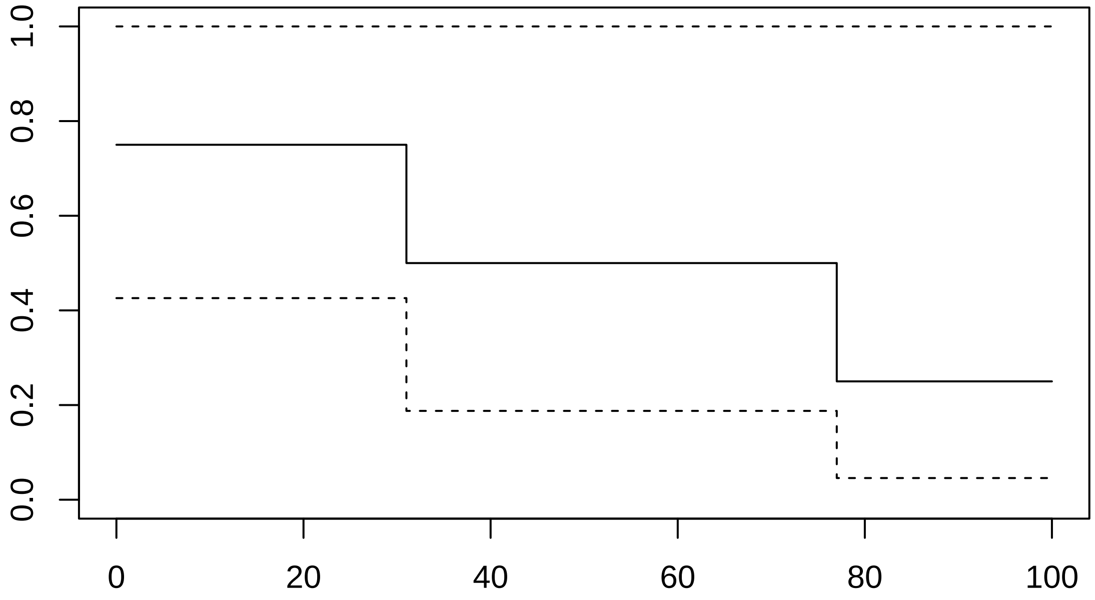
S(t) = 0.8 if t < 37.2

S(t) = 0.6 if t < 57.3

S(t) = 0.4 if t >= 57.3

Exercise 5

```
data = data.frame(time = c(0, 31, 77, 100), status = c(1, 1, 1, 0))
data_curve = survfit(Surv(time, status) ~ 1, data = data)
plot(data_curve)
```



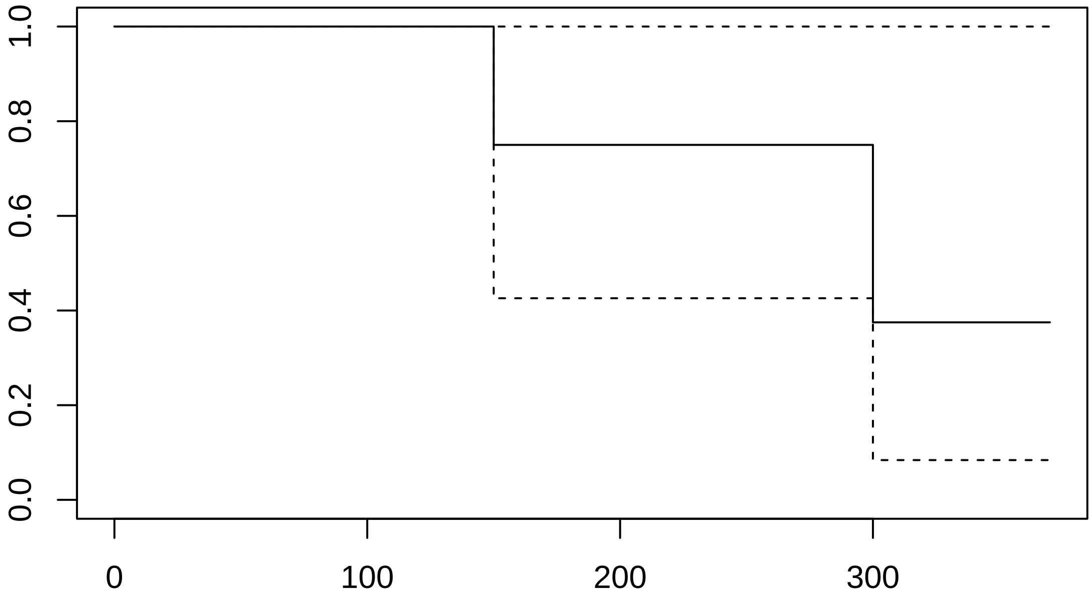
Exercise 6

a

t	δ_j	r_j	d_j	q_j
0	1	4	0	0
150	0	4	1	0
300	1	3	1	1
370	0	1	0	1

b

```r
data = data.frame(time = c(150, 250, 300, 370), status = c(1, 0, 1, 0))
data_curve = survfit(Surv(time, status) ~ 1, data = data)
plot(data_curve)
```



```r
summary(data_curve)
```

```
## Call: survfit(formula = Surv(time, status) ~ 1, data = data)
##
##  time n.risk n.event survival std.err lower 95% CI upper 95% CI
##   150      4       1    0.750   0.217       0.4259            1
##   300      2       1    0.375   0.286       0.0839            1
```

c

S(t) = 0.15

S(t) = 0.375

d

S(t) = 0.75 if t < 300

S(t) = 0.375 if t

$$\geq$$

300

Exercise 7

a

If we think q (the number of deaths) as "successes" (although we don't mean it literally), q follows Hypergeometric distribution

$$q_1 \sim Hyper(r_k, q_k, r_{1k})$$

$$P(q_1 = q'_{1k}) = \frac{\binom{q_k}{q'_{1k}} \binom{r_k \quad - \quad q_k}{r_{1k} \quad - \quad q'_{1k}}}{\binom{r_k}{r_{1k}}}$$

where

$$r_k$$

is the population size,

$$q_k$$

is the number of successes,

$$r_{1k}$$

is the number of draws,

$$q'_{1k}$$

is the number of observed succeses

b

$$Mean(q_{1k}) = r_{1k}.\frac{q_k}{rk}$$

$$Variance(q_{1k}) = r_{1k}.\frac{q_k}{rk}.\frac{r_k - q_k}{r_k}.\frac{r_k - r_{1k}}{r_k - 1}$$

Exercise 8

a

$$= \lim_{\Delta t \to 0} = \frac{F\left(t + \Delta t\right) - F\left(t\right)}{\Delta t}$$

$$= \lim_{\Delta t \to 0} = \frac{1 - S\left(t + \Delta t\right) - F\left(t\right)}{\Delta t}$$

$$= \lim_{\Delta t \to 0} = \frac{1 - S\left(t + \Delta t\right) - P\left(T < t\right)}{\Delta t}$$

$$= \lim_{\Delta t \to 0} = \frac{1 - P\left(T > t + \Delta t\right) - P\left(T < t\right)}{\Delta t}$$

$$= \lim_{\Delta t \to 0} = \frac{P\left(T \leq t + \Delta t\right) - P\left(T < t\right)}{\Delta t}$$

$$= \lim_{\Delta t \to 0} = \frac{P\left(t < T \leq t + \Delta t\right)}{\Delta t}$$

$$= f(t)$$

b

$$\frac{dF(t)}{dt} = f(t)$$

$$\Leftrightarrow -\frac{dS(t)}{dt} = f(t)$$

$$\Leftrightarrow -\frac{dS(t)}{dt}\frac{1}{S(t)} = \frac{f(t)}{S(t)}$$

$$\Leftrightarrow -\frac{dlog(S(t))}{dt} = h(t)$$

$$\Leftrightarrow -log(S(t)) = \int_0^t h\left(u\right)du$$

$$\Leftrightarrow S(t) = \exp\left(-\int_0^t h(u)du\right)$$

Exercise 9

a

$$T \sim Exp(\lambda)$$

$$\Rightarrow P(T = t) = \lambda e^{-\lambda t}$$

$$\Rightarrow P(T > t) = e^{-\lambda t}$$

$$\Rightarrow S(t) = e^{-\lambda t}$$

b

$$X \sim Exp(\lambda)$$

$$\Rightarrow \hat{\lambda}_{MLE} = \frac{1}{\bar{x}} = \frac{n}{\sum_i x_i}$$

We have

$$T \sim Exp(\lambda)\ and\ t_1,\ t_2, ...,\ t_n$$

are independent samples from T (t could be the true survival time or the censoring time and we also assume that censoring mechanism is independent). So,

$$\lambda_{MLE} = \frac{n}{\sum_i t_i} = \frac{\sum_{i=1}^{n} \delta_i}{\sum_{i=1}^{n} y_i}$$

And,

$$Mean(T) == \frac{\sum_{i=1}^{n} y_i}{\sum_{i=1}^{n} \delta_i}$$

Exercise 10

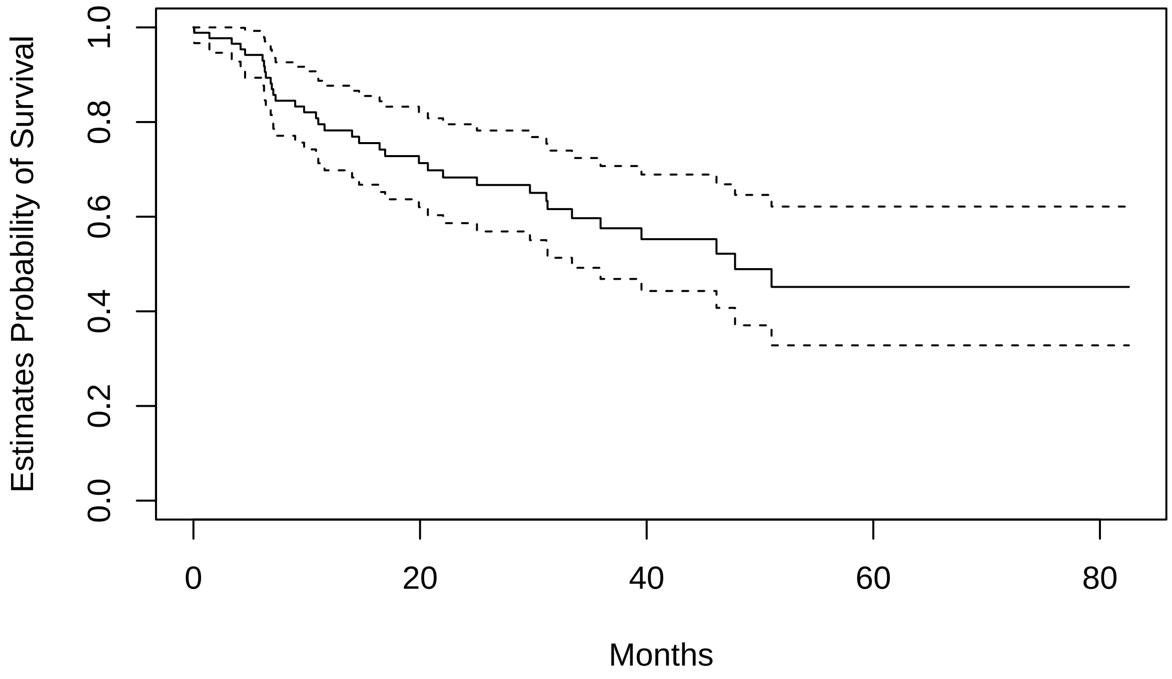
```
library(ISLR2)
library(survival)
library(dplyr)
```

```
head(BrainCancer)
```

```
##      sex  diagnosis            loc ki   gtv stereo status  time
## 1 Female Meningioma Infratentorial 90  6.11    SRS      0 57.64
## 2   Male  HG glioma Supratentorial 90 19.35    SRT      1  8.98
## 3 Female Meningioma Infratentorial 70  7.95    SRS      0 26.46
## 4 Female  LG glioma Supratentorial 80  7.61    SRT      1 47.80
## 5   Male  HG glioma Supratentorial 90  5.06    SRT      1  6.30
## 6 Female Meningioma Supratentorial 80  4.82    SRS      0 52.75
```

a

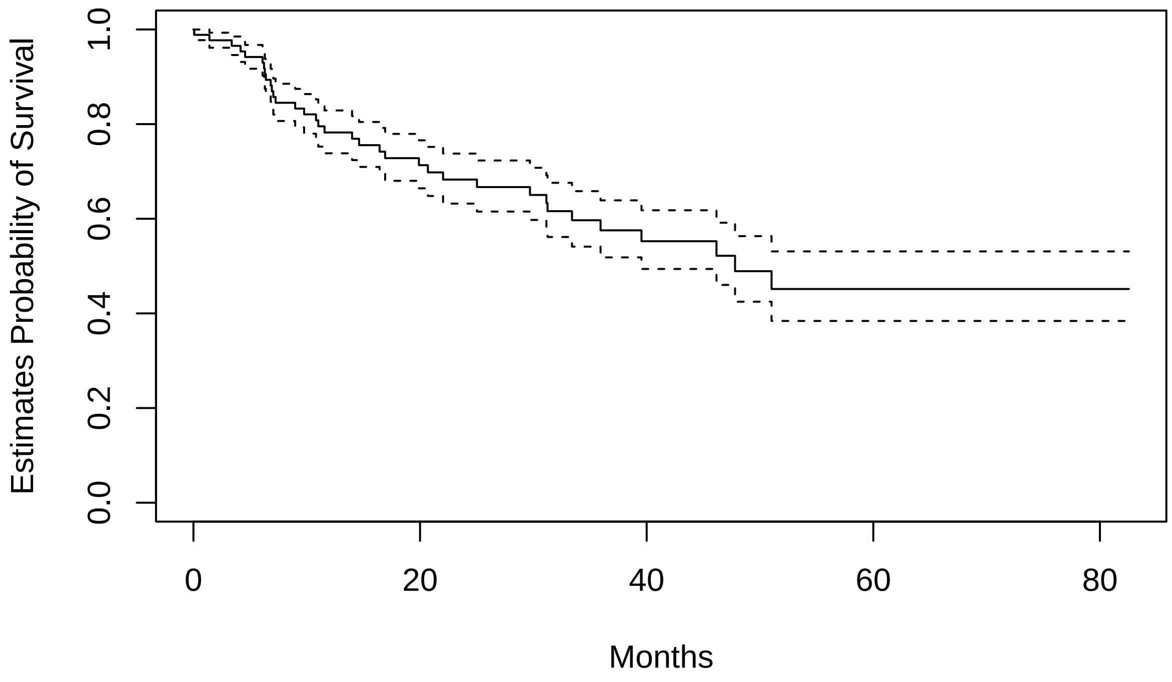
```r
attach(BrainCancer)
km_95_curve = survfit(Surv(time, status) ~ 1, conf.int = 0.95)
plot(km_95_curve, xlab = 'Months', ylab = 'Estimates Probability of Survival')
```



```r
summary(km_95_curve)
```

```
## Call: survfit(formula = Surv(time, status) ~ 1, conf.int = 0.95)
##
##   time n.risk n.event survival std.err lower 95% CI upper 95% CI
##   0.07     88       1    0.989  0.0113        0.967        1.000
##   1.41     86       1    0.977  0.0160        0.946        1.000
##   3.38     83       1    0.965  0.0197        0.928        1.000
##   4.16     82       1    0.954  0.0227        0.910        0.999
##   4.56     81       1    0.942  0.0253        0.894        0.993
##   6.10     78       1    0.930  0.0277        0.877        0.986
##   6.23     77       1    0.918  0.0298        0.861        0.978
##   6.30     76       1    0.906  0.0318        0.845        0.970
##   6.39     75       1    0.894  0.0336        0.830        0.962
##   6.82     74       1    0.881  0.0352        0.815        0.953
##   6.92     73       1    0.869  0.0368        0.800        0.944
##   7.05     72       1    0.857  0.0382        0.786        0.935
##   7.25     70       1    0.845  0.0395        0.771        0.926
##   8.98     69        1    0.833  0.0408        0.757        0.917
##   9.77     68        1    0.821  0.0420        0.742        0.907
##  10.82     65        1    0.808  0.0432        0.727        0.897
##  11.02     64        1    0.795  0.0444        0.713        0.887
##  11.57     61        1    0.782  0.0455        0.698        0.877
##  14.00     59        1    0.769  0.0466        0.683        0.866
##  14.62     57        1    0.756  0.0477        0.668        0.855
##  16.43     55        1    0.742  0.0488        0.652        0.844
##  16.92     54        1    0.728  0.0498        0.637        0.832
##  19.90     49        1    0.713  0.0509        0.620        0.820
##  20.69     47        1    0.698  0.0521        0.603        0.808
##  22.03     46        1    0.683  0.0531        0.586        0.795
##  25.02     43        1    0.667  0.0542        0.569        0.782
##  29.70     40        1    0.650  0.0553        0.550        0.768
##  31.15     38        1    0.633  0.0565        0.532        0.754
##  31.25     37        1    0.616  0.0575        0.513        0.740
##  33.41     32        1    0.597  0.0588        0.492        0.724
##  35.93     28        1    0.575  0.0605        0.468        0.707
##  39.54     25        1    0.552  0.0623        0.443        0.689
##  46.16     18        1    0.522  0.0659        0.407        0.668
##  47.80     16        1    0.489  0.0694        0.370        0.646
##  51.02     13        1    0.452  0.0736        0.328        0.621
```

```
km_68_curve = survfit(Surv(time, status) ~ 1, conf.int = 0.68)
plot(km_68_curve, xlab = 'Months', ylab = 'Estimates Probability of Survival')
```



```
summary(km_68_curve)
```

```
## Call: survfit(formula = Surv(time, status) ~ 1, conf.int = 0.68)
##
##   time n.risk n.event survival std.err lower 68% CI upper 68% CI
##   0.07     88       1    0.989  0.0113        0.977        1.000
##   1.41     86       1    0.977  0.0160        0.961        0.993
##   3.38     83       1    0.965  0.0197        0.946        0.985
##   4.16     82       1    0.954  0.0227        0.931        0.976
##   4.56     81       1    0.942  0.0253        0.917        0.967
##   6.10     78       1    0.930  0.0277        0.903        0.958
##   6.23     77       1    0.918  0.0298        0.888        0.948
##   6.30     76       1    0.906  0.0318        0.875        0.938
##   6.39     75       1    0.894  0.0336        0.861        0.928
##   6.82     74       1    0.881  0.0352        0.847        0.917
##   6.92     73       1    0.869  0.0368        0.834        0.907
##   7.05     72       1    0.857  0.0382        0.820        0.896
##   7.25     70       1    0.845  0.0395        0.807        0.885
##   8.98     69       1    0.833  0.0408        0.793        0.874
##   9.77     68       1    0.821  0.0420        0.780        0.863
##  10.82     65       1    0.808  0.0432        0.766        0.852
##  11.02     64       1    0.795  0.0444        0.752        0.841
##  11.57     61       1    0.782  0.0455        0.738        0.829
##  14.00     59       1    0.769  0.0466        0.724        0.817
##  14.62     57       1    0.756  0.0477        0.710        0.805
##  16.43     55       1    0.742  0.0488        0.695        0.792
##  16.92     54       1    0.728  0.0498        0.680        0.779
##  19.90     49       1    0.713  0.0509        0.664        0.766
##  20.69     47       1    0.698  0.0521        0.648        0.752
##  22.03     46       1    0.683  0.0531        0.632        0.738
##  25.02     43       1    0.667  0.0542        0.615        0.723
##  29.70     40       1    0.650  0.0553        0.598        0.708
##  31.15     38       1    0.633  0.0565        0.579        0.692
##  31.25     37       1    0.616  0.0575        0.561        0.676
##  33.41     32       1    0.597  0.0588        0.541        0.658
##  35.93     28       1    0.575  0.0605        0.518        0.639
##  39.54     25       1    0.552  0.0623        0.494        0.618
##  46.16     18       1    0.522  0.0659        0.460        0.592
##  47.80     16       1    0.489  0.0694        0.425        0.563
##  51.02     13       1    0.452  0.0736        0.384        0.531
```

b

```
# an example
braincancer_by_time = data.frame(time = sort(BrainCancer$time))
set.seed(42)

bootstrap_indices = sample(nrow(BrainCancer), size = 88, replace = T)
bootstrap_sample = BrainCancer[bootstrap_indices, ]
bootstrap_curve = survfit(Surv(time, status) ~ 1, data = bootstrap_sample)
```

```
#plot(bootstrap_curve)
#summary(bootstrap_curve)

bootstrap_df_sample = data.frame(time = bootstrap_curve$time,
                                 survive = bootstrap_curve$surv)
braincancer_by_time
```

```
##     time
## 1   0.07
## 2   1.18
## 3   1.41
## 4   1.54
## 5   2.03
## 6   3.38
## 7   4.16
## 8   4.56
## 9   5.15
## 10  5.51
## 11  6.10
## 12  6.23
## 13  6.30
## 14  6.39
## 15  6.82
## 16  6.92
## 17  7.05
## 18  7.18
## 19  7.25
## 20  8.98
## 21  9.77
## 22 10.10
## 23 10.49
## 24 10.82
## 25 11.02
## 26 11.48
## 27 11.51
## 28 11.57
## 29 13.90
## 30 14.00
## 31 14.56
## 32 14.62
## 33 14.75
## 34 16.43
## 35 16.92
## 36 17.57
## 37 18.95
## 38 19.41
## 39 19.74
## 40 19.90
## 41 20.13
## 42 20.69
## 43 22.03
## 44 23.67
## 45 24.39
## 46 25.02
## 47 26.46
## 48 26.85
## 49 29.70
## 50 30.16
## 51 31.15
## 52 31.25
## 53 31.67
## 54 32.82
## 55 32.82
## 56 32.98
## 57 33.41
## 58 33.67
## 59 34.26
## 60 34.66
## 61 35.93
## 62 36.10
## 63 39.25
## 64 39.54
## 65 39.54
## 66 41.44
## 67 42.07
## 68 42.10
## 69 44.39
## 70 45.74
## 71 46.16
## 72 47.11
## 73 47.80
## 74 49.05
## 75 50.85
## 76 51.02
## 77 52.23
## 78 52.75
## 79 54.43
## 80 55.80
## 81 57.11
## 82 57.25
## 83 57.64
## 84 65.02
## 85 67.38
## 86 73.74
## 87 78.75
## 88 82.56
```

```
arrange(bootstrap_sample, time)
```

```
##         sex  diagnosis            loc  ki   gtv stereo status  time
## 83     Male  LG glioma Infratentorial  90 30.41    SRT      0  1.18
## 49     Male Meningioma Supratentorial  70  0.97    SRT      1  1.41
## 49.1   Male Meningioma Supratentorial  70  0.97    SRT      1  1.41
## 49.2   Male Meningioma Supratentorial  70  0.97    SRT      1  1.41
## 49.3   Male Meningioma Supratentorial  70  0.97    SRT      1  1.41
## 80   Female Meningioma Infratentorial  70  2.94    SRS      0  1.54
## 41   Female Meningioma Supratentorial  80  1.57    SRT      0  2.03
## 47     Male  HG glioma Supratentorial  80 29.27     SRT      0  5.15
## 35   Female Meningioma Supratentorial  90  7.30     SRT      0  5.51
## 38     Male  HG glioma Supratentorial  90  9.95     SRT      1  6.23
## 5      Male  HG glioma Supratentorial  90  5.06     SRT      1  6.30
## 5.1    Male  HG glioma Supratentorial  90  5.06     SRT      1  6.30
## 85     Male  HG glioma Supratentorial  80 19.81     SRT      1  6.39
## 16   Female  HG glioma Supratentorial  70 11.38     SRS      1  7.05
## 36   Female      Other Supratentorial  70 14.26     SRT      0  7.18
## 36.1 Female      Other Supratentorial  70 14.26     SRT      0  7.18
## 2      Male  HG glioma Supratentorial  90 19.35     SRT      1  8.98
## 2.1    Male  HG glioma Supratentorial  90 19.35     SRT      1  8.98
## 2.2    Male  HG glioma Supratentorial  90 19.35     SRT      1  8.98
## 53     Male  HG glioma Supratentorial  90  2.50     SRT      1  9.77
## 69   Female Meningioma Supratentorial  80  6.93     SRS      0 10.10
## 69.1 Female Meningioma Supratentorial  80  6.93     SRS      0 10.10
## 69.2 Female Meningioma Supratentorial  80  6.93     SRS      0 10.10
## 33   Female      Other Infratentorial  70 13.45     SRT      1 10.82
## 74   Female  HG glioma Supratentorial  80  0.19     SRT      1 11.02
## 10     Male  HG glioma Supratentorial 100  2.53     SRT      0 11.48
## 50   Female  LG glioma Supratentorial  80  0.19     SRS      0 11.51
## 27     Male      Other Supratentorial  60 34.64     SRT      1 11.57
## 88     Male      Other Infratentorial  80  0.11     SRT      0 13.90
## 22     Male  HG glioma Supratentorial  70 14.44     SRT      1 14.00
## 43   Female Meningioma Supratentorial  70  6.70     SRT      0 14.56
## 43.1 Female Meningioma Supratentorial  70  6.70     SRT      0 14.56
## 37   Female Meningioma Supratentorial  80  6.60     SRT      0 14.75
## 42     Male  HG glioma Supratentorial  90  0.28     SRT      1 16.43
## 42.1   Male  HG glioma Supratentorial  90  0.28     SRT      1 16.43
## 55   Female  HG glioma Supratentorial  80  0.63     SRT      1 16.92
## 55.1 Female  HG glioma Supratentorial  80  0.63     SRT      1 16.92
## 60   Female Meningioma Supratentorial  90  2.47     SRT      0 17.57
## 71     Male Meningioma Supratentorial  70  8.45     SRT      0 19.41
## 58     Male  HG glioma Supratentorial  80  3.75     SRT      1 19.90
## 58.1   Male  HG glioma Supratentorial  80  3.75     SRT      1 19.90
## 58.2   Male  HG glioma Supratentorial  80  3.75     SRT      1 19.90
## 58.3   Male  HG glioma Supratentorial  80  3.75     SRT      1 19.90
## 73     Male  LG glioma Supratentorial  90  2.64     SRT      0 20.13
## 73.1   Male  LG glioma Supratentorial  90  2.64     SRT      0 20.13
## 84     Male  HG glioma Supratentorial  80  0.16     SRT      1 20.69
## 84.1   Male  HG glioma Supratentorial  80  0.16     SRT      1 20.69
## 68     Male      Other Infratentorial  70  0.01     SRS      0 23.67
## 21   Female Meningioma Supratentorial  80  2.82     SRS      0 24.39
## 21.1 Female Meningioma Supratentorial  80  2.82     SRS      0 24.39
## 26     Male  LG glioma Supratentorial  90  4.23     SRT      1 25.02
## 26.1   Male  LG glioma Supratentorial  90  4.23     SRT      1 25.02
## 3    Female Meningioma Infratentorial  70  7.95     SRS      0 26.46
## 3.1  Female Meningioma Infratentorial  70  7.95     SRS      0 26.46
## 3.2  Female Meningioma Infratentorial  70  7.95     SRS      0 26.46
## 20   Female Meningioma Supratentorial  90  2.50     SRT      0 30.16
## 72     Male Meningioma Supratentorial  80 20.93     SRT      1 31.15
## 86     Male Meningioma Supratentorial  90  2.50     SRT      0 32.82
## 13   Female Meningioma Infratentorial  90  0.63     SRS      0 32.98
## 25   Female Meningioma Supratentorial  70  6.48     SRT      1 33.41
## 57     Male  HG glioma Infratentorial  80  0.22     SRS      0 33.67
## 9    Female Meningioma Supratentorial  70 12.16    SRT      0 34.66
## 29     Male Meningioma Supratentorial  60  3.81    SRT      0 36.10
## 29.1   Male Meningioma Supratentorial  60  3.81    SRT      0 36.10
## 29.2   Male Meningioma Supratentorial  60  3.81    SRT      0 36.10
## 54     Male Meningioma Infratentorial  80 24.41    SRT      0 39.54
## 15   Female Meningioma Supratentorial  60  9.18    SRT      0 41.44
## 87     Male Meningioma Supratentorial  90  2.02    SRS      0 42.07
## 8      Male  LG glioma Supratentorial  80 12.37    SRT      0 42.10
## 32     Male Meningioma Supratentorial  90  2.56    SRS      0 44.39
## 40   Female Meningioma Supratentorial  90  2.54    SRT      0 45.74
## 40.1 Female Meningioma Supratentorial  90  2.54    SRT      0 45.74
## 81   Female  HG glioma Supratentorial  80 15.45    SRT      1 46.16
## 82   Female      Other Supratentorial  90  1.82    SRT      0 47.11
## 4    Female  LG glioma Supratentorial  80  7.61    SRT      1 47.80
## 24   Female Meningioma Infratentorial 100  2.13    SRS      1 51.02
## 24.1 Female Meningioma Infratentorial 100  2.13    SRS      1 51.02
## 24.2 Female Meningioma Infratentorial 100  2.13    SRS      1 51.02
## 6    Female Meningioma Supratentorial  80  4.82    SRS      0 52.75
## 6.1  Female Meningioma Supratentorial  80  4.82    SRS      0 52.75
## 34     Male      Other Infratentorial  80  6.81    SRS      0 57.11
## 76   Female Meningioma Supratentorial  80 31.74    SRT      0 57.25
## 30   Female Meningioma Supratentorial  90  4.72    SRS      0 65.02
## 65     Male  LG glioma Supratentorial  80  9.58    SRT      0 78.75
## 18     Male  HG glioma Supratentorial  90 10.80    SRT      0 82.56
## 18.1   Male  HG glioma Supratentorial  90 10.80    SRT      0 82.56
## 18.2   Male  HG glioma Supratentorial  90 10.80    SRT      0 82.56
## 18.3   Male  HG glioma Supratentorial  90 10.80    SRT      0 82.56
```

```r
merge(x = braincancer_by_time, y = bootstrap_df_sample,
      by = 'time', all.x = T)
```

```
##      time   survive
## 1   0.07        NA
## 2   1.18 1.0000000
## 3   1.41 0.9540230
## 4   1.54 0.9540230
## 5   2.03 0.9540230
## 6   3.38        NA
## 7   4.16        NA
## 8   4.56        NA
## 9   5.15 0.9540230
## 10  5.51 0.9540230
## 11  6.10        NA
## 12  6.23 0.9419467
## 13  6.30 0.9177943
## 14  6.39 0.9057180
## 15  6.82        NA
## 16  6.92        NA
## 17  7.05 0.8936418
## 18  7.18 0.8936418
## 19  7.25        NA
## 20  8.98 0.8564067
## 21  9.77 0.8439950
## 22 10.10 0.8439950
## 23 10.49        NA
## 24 10.82 0.8310105
## 25 11.02 0.8180259
## 26 11.48 0.8180259
## 27 11.51 0.8180259
## 28 11.57 0.8046157
## 29 13.90 0.8046157
## 30 14.00 0.7909781
## 31 14.56 0.7909781
## 32 14.62        NA
## 33 14.75 0.7909781
## 34 16.43 0.7622153
## 35 16.92 0.7334524
## 36 17.57 0.7334524
## 37 18.95        NA
## 38 19.41 0.7334524
## 39 19.74        NA
## 40 19.90 0.6735788
## 41 20.13 0.6735788
## 42 20.69 0.6422495
## 43 22.03        NA
## 44 23.67 0.6422495
## 45 24.39 0.6422495
## 46 25.02 0.6084469
## 47 26.46 0.6084469
## 48 26.85        NA
## 49 29.70        NA
## 50 30.16 0.6084469
## 51 31.15 0.5894330
## 52 31.25        NA
## 53 31.67        NA
## 54 32.82 0.5894330
## 55 32.82 0.5894330
## 56 32.98 0.5894330
## 57 33.41 0.5691077
## 58 33.67 0.5691077
## 59 34.26        NA
## 60 34.66 0.5691077
## 61 35.93        NA
## 62 36.10 0.5691077
## 63 39.25        NA
## 64 39.54 0.5691077
## 65 39.54 0.5691077
## 66 41.44 0.5691077
## 67 42.07 0.5691077
## 68 42.10 0.5691077
## 69 44.39 0.5691077
## 70 45.74 0.5691077
## 71 46.16 0.5335385
## 72 47.11 0.5335385
## 73 47.80 0.4954286
## 74 49.05        NA
## 75 50.85        NA
## 76 51.02 0.3810989
## 77 52.23        NA
## 78 52.75 0.3810989
## 79 54.43        NA
## 80 55.80        NA
## 81 57.11 0.3810989
## 82 57.25 0.3810989
## 83 57.64        NA
## 84 65.02 0.3810989
## 85 67.38        NA
## 86 73.74        NA
## 87 78.75 0.3810989
## 88 82.56 0.3810989
```

```
set.seed(42)

B = 200
results = braincancer_by_time

for (i in 1:B){

  #print(i)
  bootstrap_index = sample(nrow(BrainCancer), size = 88, replace = T)
  a_bootstrap_sample = BrainCancer[bootstrap_index, ]
  a_bootstrap_km_curve = survfit(Surv(time, status) ~ 1,
                                 data = a_bootstrap_sample,
                                 conf.int = 0.68)
  a_bootstrap_df = data.frame(time = a_bootstrap_km_curve$time,
                              survive = a_bootstrap_km_curve$surv)
  results = merge(x = results, y = a_bootstrap_df,
                  by = 'time', all.x = T)

}
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
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## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
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## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

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## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
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## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

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## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
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## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y' are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y' are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y' are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y' are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y' are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y' are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y' are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y' are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y' are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y' are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y' are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y' are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result
```

```
## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’ are duplicated in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
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## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’ are duplicated
## in the result

## Warning in merge.data.frame(x = results, y = a_bootstrap_df, by = "time", :
## column names ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’, ’survive.y’, ’survive.x’,
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y', 'survive.x', 'survive.y', 'survive.x', 'survive.y', 'survive.x',
## 'survive.y' are duplicated in the result
```

```
# View(results)
```

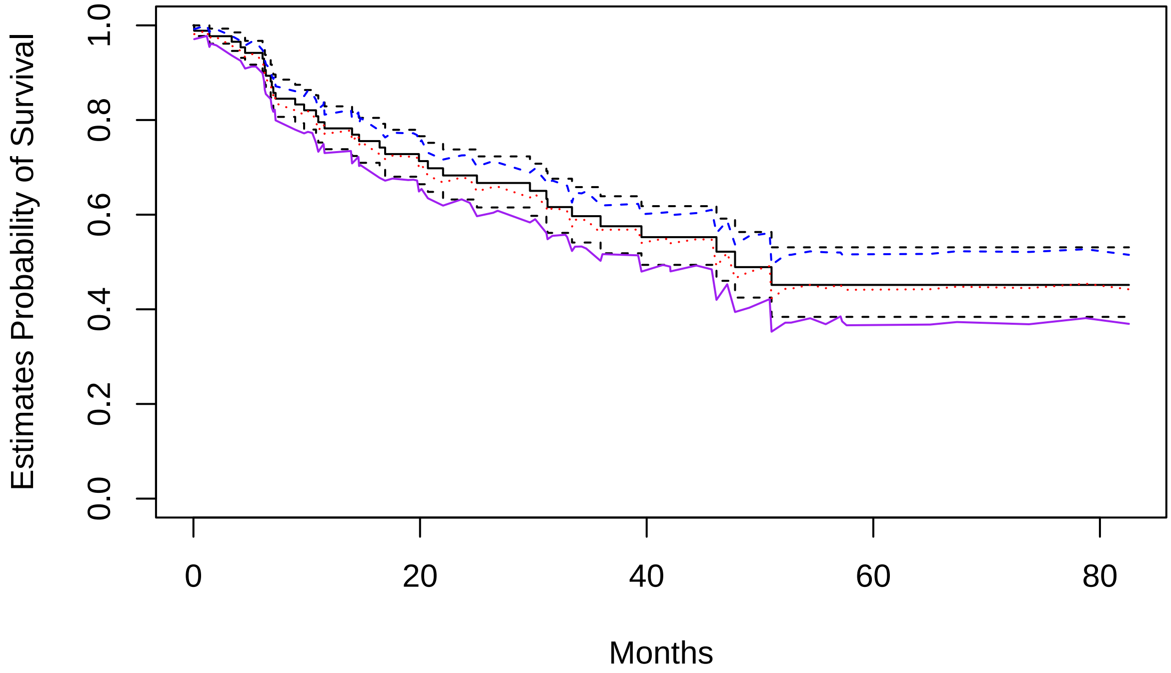
```
for (i in 1:nrow(BrainCancer)){

  a_row = na.omit(as.numeric(results[i, 2:201]))
  mean_prob = mean(a_row)
  std = sd(a_row)
  upper_bound = mean_prob + 1 * std
  lower_bound = mean_prob - 1 * std
  results[i, 'mean'] = mean_prob
  results[i, 'upper_bound'] = upper_bound
  results[i, 'lower_bound'] = lower_bound

}

View(results)
```

```
plot(km_68_curve, xlab = 'Months', ylab = 'Estimates Probability of Survival')
lines(x = results$time, y = results$mean, col = 'red', lty = 9)
lines(x = results$time, y = results$upper_bound, col = 'blue', lty = 8)
lines(x = results$time, y = results$lower_bound, col = 'purple', lty = 7)
```



c

```
cox_model = coxph(Surv(time, status) ~ ., data = BrainCancer)
cox_model
```

```
## Call:
## coxph(formula = Surv(time, status) ~ ., data = BrainCancer)
##
##                          coef exp(coef) se(coef)      z        p
## sexMale               0.18375   1.20171  0.36036  0.510  0.61012
## diagnosisLG glioma    0.91502   2.49683  0.63816  1.434  0.15161
## diagnosisHG glioma    2.15457   8.62414  0.45052  4.782 1.73e-06
## diagnosisOther        0.88570   2.42467  0.65787  1.346  0.17821
## locSupratentorial     0.44119   1.55456  0.70367  0.627  0.53066
## ki                   -0.05496   0.94653  0.01831 -3.001  0.00269
## gtv                   0.03429   1.03489  0.02233  1.536  0.12466
## stereoSRT             0.17778   1.19456  0.60158  0.296  0.76760
##
## Likelihood ratio test=41.37  on 8 df, p=1.776e-06
## n= 87, number of events= 35
##    (1 observation deleted due to missingness)
```

There are two statistically significant predictors: HG glioma and ki.

Patients diagnosed with HG glioma have a probability of event occurring (die) 8.6 times higher than patients who are not diagnosed with HG glioma. (lower probability of survival)

Each additional “ki” leads to an 0.95-fold increase in the risk of being died.

d

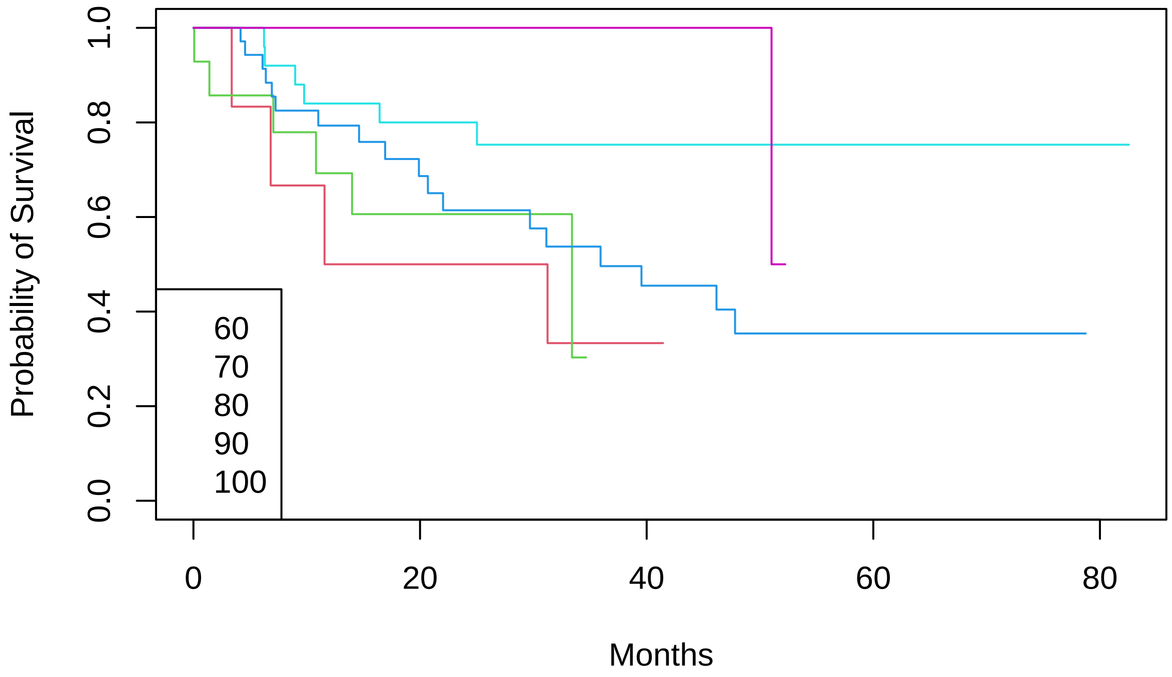
```
braincancer = BrainCancer
braincancer$ki_group = (cut(BrainCancer$ki, breaks = c(0, 60, 70, 80, 90, 100),
                            labels = c('60', '70', '80', '90', '100')))
table(BrainCancer$ki)
```

```
##
##  40  60  70  80  90 100
##   1   5  14  36  27   5
```

```
table(braincancer$ki_group)
```

```
##
##  60  70  80  90 100
##   6  14  36  27   5
```

```
ki_model = survfit(Surv(time, status) ~ ki_group, data = braincancer)
plot(ki_model, xlab = 'Months', ylab = 'Probability of Survival',
     col = c(2, 3, 4, 5, 6))
legend('bottomleft', legend = levels(braincancer$ki_group),
       col = c(2, 3, 4, 5, 6))
```



Exercise 11

a

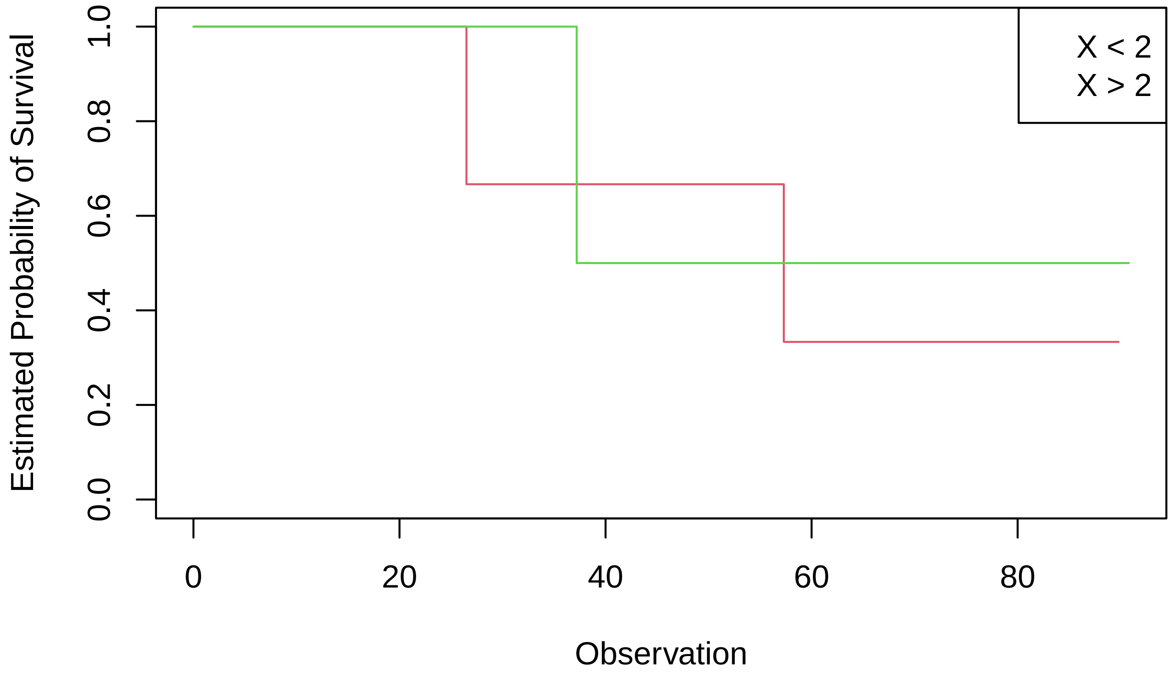
```
Observation = c(26.5, 37.2, 57.3, 90.8, 20.2, 89.8)
Censoring_Indicator = c(1, 1, 1, 0, 0, 0)
Covariate = c(0.1, 11, -0.3, 2.8, 1.8, 0.4)

data = data.frame(observation = Observation,
                  censoring_indicator = Censoring_Indicator,
                  covariate = Covariate)

data
```

```
##   observation censoring_indicator covariate
## 1        26.5                   1       0.1
## 2        37.2                   1      11.0
## 3        57.3                   1      -0.3
## 4        90.8                   0       2.8
## 5        20.2                   0       1.8
## 6        89.8                   0       0.4
```

```
data$covariate_group = cut(data$covariate, breaks = c(-Inf, 2, Inf),
                           labels = c('X < 2', 'X > 2'))
covariate_curve = survfit(Surv(observation, censoring_indicator) ~ covariate_group,
                          data = data)
plot(covariate_curve, xlab = 'Observation',
     ylab = 'Estimated Probability of Survival',
     col = c(2, 3))
legend('topright', legend = c('X < 2', 'X > 2'), col = c(2, 3))
```



b

```
cox_model = coxph(Surv(observation, censoring_indicator) ~ covariate_group,
                          data = data)
cox_model
```

```
## Call:
## coxph(formula = Surv(observation, censoring_indicator) ~ covariate_group,
##     data = data)
##
##                         coef exp(coef) se(coef)      z     p
## covariate_groupX > 2 -0.3401    0.7117   1.2359 -0.275 0.783
##
## Likelihood ratio test=0.08  on 1 df, p=0.7797
## n= 6, number of events= 3
```

Objects in group number 2 (where X is greater than or equal 2) have a risk of event occurring 0.7117-fold higher than Objects in group number 1.

Since p-value is greater than 0.05 (approximately 0.78), the data provides convincing evidence that the true coefficient is non-zero. (There is a difference between 2 groups).

c

```
log_rank_test = survdiff(Surv(observation, censoring_indicator) ~ covariate_group,
                          data = data)
log_rank_test
```

```
## Call:
## survdiff(formula = Surv(observation, censoring_indicator) ~ covariate_group,
##     data = data)
##
##                        N Observed Expected (O-E)^2/E (O-E)^2/V
## covariate_group=X < 2 4        2     1.77    0.0308    0.0764
## covariate_group=X > 2 2        1     1.23    0.0441    0.0764
##
##  Chisq= 0.1  on 1 degrees of freedom, p= 0.8
```

The p-value results from Cox model and log-rank test are identical. The result above was rounded.