Kaplan-Meier

필요한 라이브러리 및 함수 등록

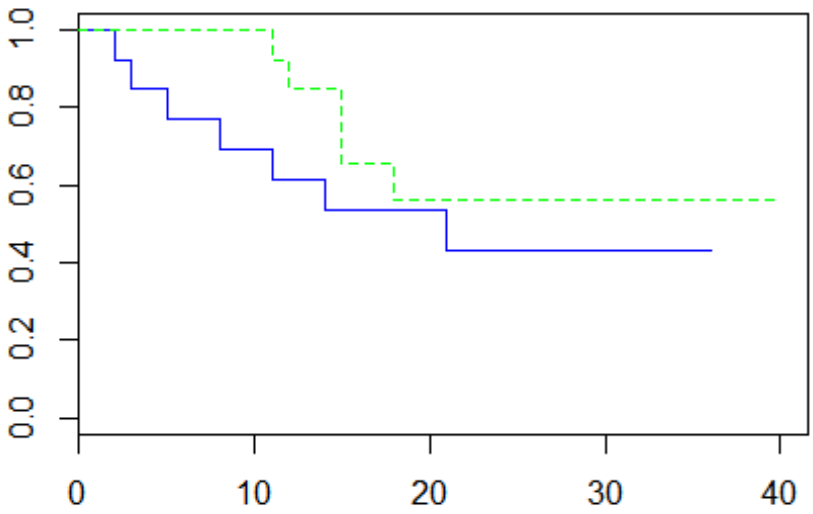
자료 입력 및 관찰

```
library(survival)
survivaldata = read.csv("7_ovrian_cancer_survival_data.csv")
attach(survivaldata)
survivaldata[(1:20),]
```

```
##    id treatment month death age residual condition  time
## 1   1         1     2     1  72        2         1    59
## 2   2         1     3     1  74        2         1   115
## 3   3         1     5     1  66        2         2   156
## 4   4         2    14     0  53        2         1   421
## 5   5         1    14     1  50        2         1   431
## 6   6         1    14     0  56        1         2   448
## 7   7         2    15     1  57        2         2   464
## 8   8         2    15     1  60        2         2   475
## 9   9         1    15     0  64        2         1   477
## 10 10         2    18     1  55        1         2   563
## 11 11         1    21     1  57        1         2   638
## 12 12         2    24     0  50        1         1   744
## 13 13         2    25     0  60        2         2   769
## 14 14         2    25     0  57        2         1   770
## 15 15         1    26     0  39        1         1   803
## 16 16         1    28     0  43        1         2   855
## 17 17         1    34     0  39        2         2 1,040
## 18 18         1    36     0  45        1         1 1,106
## 19 19         2    37     0  54        1         1 1,129
## 20 20         2    40     0  44        2         1 1,206
```

Kaplan-Meier 생존분석 수행

```
result = survfit(Surv(month, death == 1) ~ treatment)
plot(result, lty = 1:2, col = c("blue", "green"))
```



로그순위법 수행

```
survdiff((Surv(month, death == 1) ~ treatment))

## Call:
## survdiff(formula = (Surv(month, death == 1) ~ treatment))
##
##                N Observed Expected (O-E)^2/E (O-E)^2/V
## treatment=1 13        7     5.21     0.617      1.12
## treatment=2 13        5     6.79     0.473      1.12
##
##  Chisq= 1.1  on 1 degrees of freedom, p= 0.291

detach(survivaldata)
```