STA 5364, Report 3.3

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Problem

Use the `survdiff()` function from the survival package in R to compare the survival curves for AML low and AML high in the BMT data, KM p. 484ff.

```
library("survival")
library("KMsurv")

data(bmt)

bmt <- bmt |> filter(!(group == 1))

# Create a survival object
surv_obj <- Surv(time = bmt$t1, event = bmt$d3)

# Perform survival curve comparison
(surv_diff <- survdiff(surv_obj ~ group, data = bmt))
```

```
## Call:
## survdiff(formula = surv_obj ~ group, data = bmt)
##
##           N Observed Expected (O-E)^2/E
## group=2 54       25     38.1      4.49
## group=3 45       34     20.9      8.18
##          (O-E)^2/V
## group=2         13
## group=3         13
##
##  Chisq= 13  on 1 degrees of freedom, p= 3e-04
```