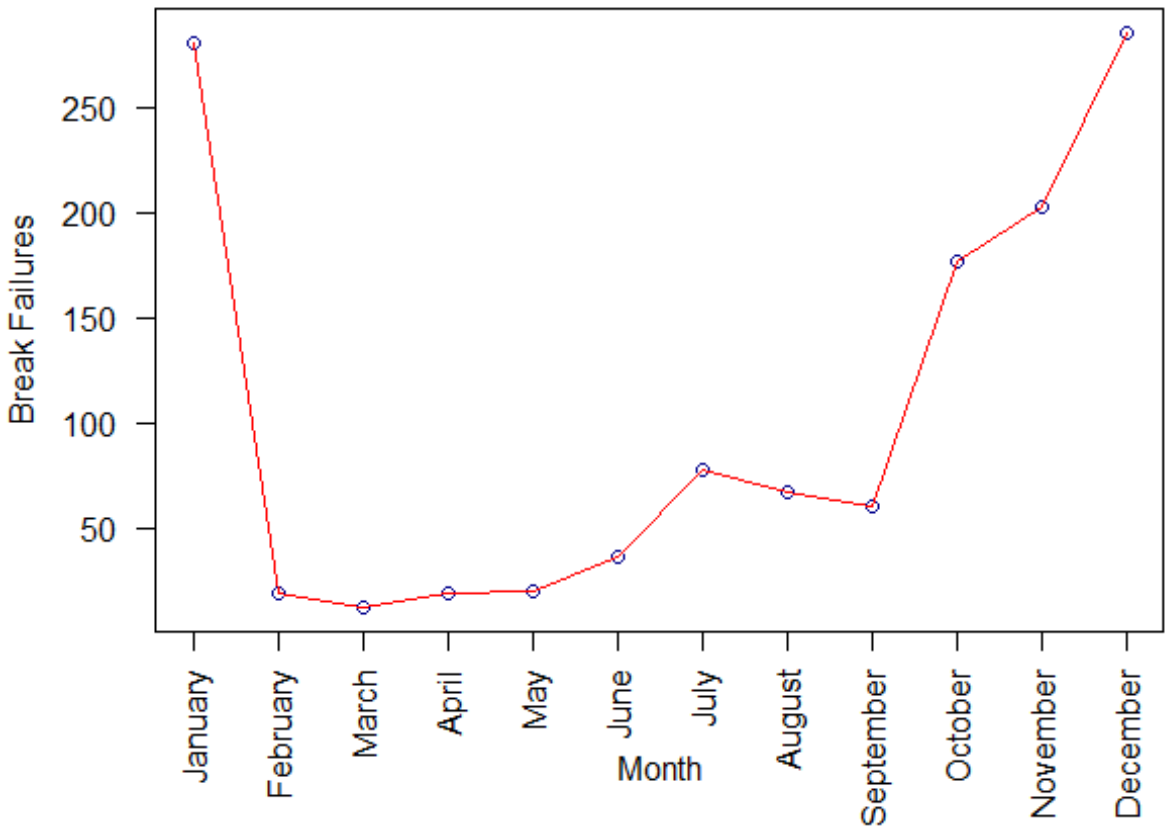
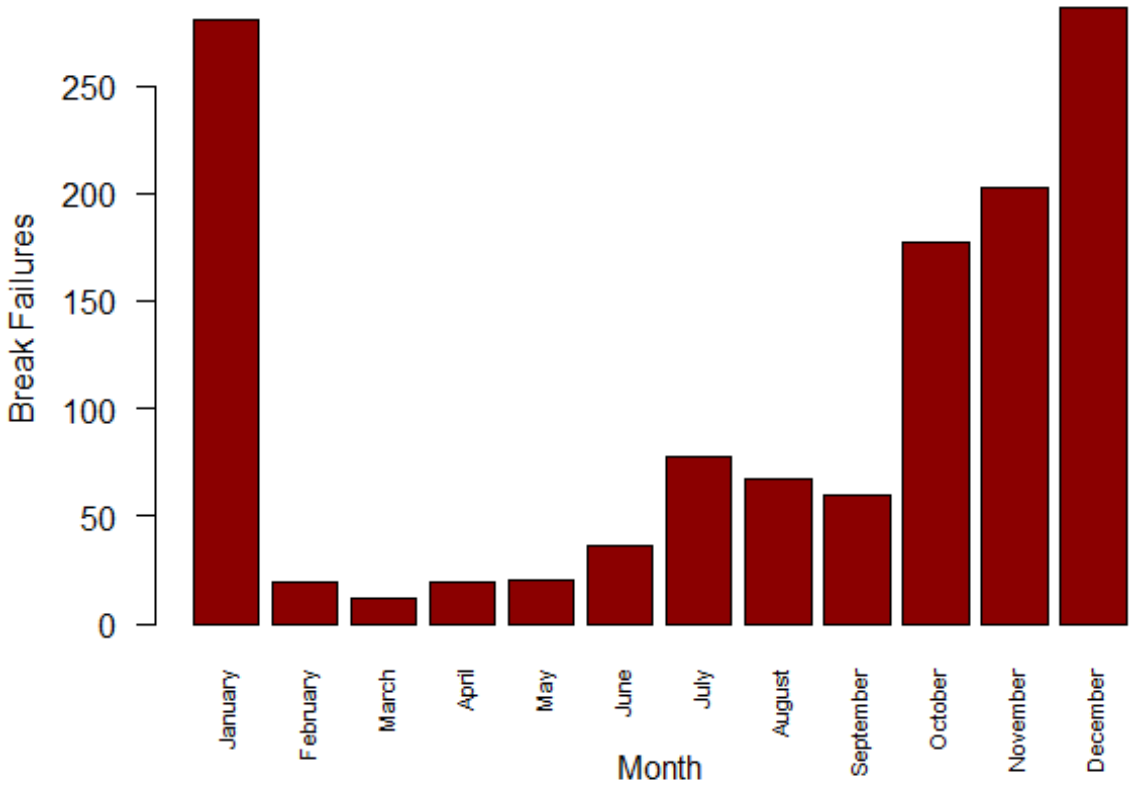
```
> mydata12<- read.csv("C:/Users/Nirbhay Pherwani/Desktop/KM Part BRK.csv")
>
> attach(mydata12)


>
> # Define variables
>
> time <- Month.No
>
> event <- event
>
> # Descriptive statistics
>
> summary(time)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  1.000   4.000  10.000   7.793  11.000  12.000
>
> summary(event)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
      1       1       1       1       1       1
>
> library(survival)
>
>
> # Kaplan-Meier non-parametric analysis
>
> kmsurvival <- survfit(Surv(time,event) ~ 1 , data=mydata12)
>
> summary(kmsurvival)
Call: survfit(formula = Surv(time, event) ~ 1, data = mydata12)

 time n.risk n.event survival std.err lower 95% CI upper 95% CI
    1   1258     281    0.777  0.0117        0.754        0.800
    2    977      19    0.762  0.0120        0.738        0.785
    3    958      12    0.752  0.0122        0.728        0.776
    4    946      19    0.737  0.0124        0.713        0.762
    5    927      20    0.721  0.0126        0.697        0.746
    6    907      36    0.692  0.0130        0.667        0.718
    7    871      78    0.630  0.0136        0.604        0.658
    8    793      67    0.577  0.0139        0.550        0.605
    9    726      60    0.529  0.0141        0.503        0.558
   10    666     177    0.389  0.0137        0.363        0.417
   11    489     203    0.227  0.0118        0.205        0.252
   12    286     286    0.000     NaN           NA           NA
>
> par(las=2) # make label text perpendicular to axis
> barplot((kmsurvival$n.event) ,xlab="Month", ylab="Break Failures" ,col="darkred",
names.arg=c("January", "February", "March", "April", "May",
"June","July","August","September","October","November","December"), cex.names=0.7)
>
> par(las=2) # make label text perpendicular to axis
> plot((kmsurvival$n.event) ,xlab="Month", ylab="Break Failures" ,col="darkblue",xaxt="n")
> axis(1, at=1:12, labels=month.name)
> lines((kmsurvival$n.event) ,xlab="Month", ylab="Break Failures", col="red")
>
>
> # End of Kaplan-Meier non-parametric analysis
>
```




## BREAK FAILURES ANALYSIS