Data Processing:

Loading and preprocessing the data

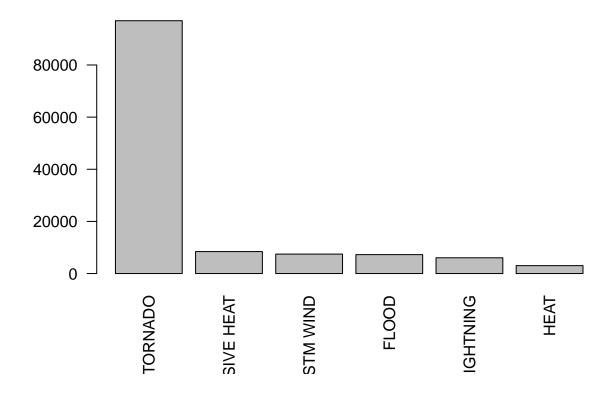
```
suppressPackageStartupMessages(library(dplyr))
suppressPackageStartupMessages(library(ggplot2))
Sys.setlocale("LC_ALL", "English")

## [1] "LC_COLLATE=English_United States.1252;LC_CTYPE=English_United States.1252;LC_MONETARY=English_United States
```

Analysis data, top harmful events for health are:

```
head(health)
##
          TORNADO EXCESSIVE HEAT
                                       TSTM WIND
                                                           FLOOD
                                                                       LIGHTNING
##
            96979
                             8428
                                            7461
                                                            7259
                                                                            6046
##
             HEAT
##
             3037
barplot(health[1:6], main="fatality+injury", las=2)
```

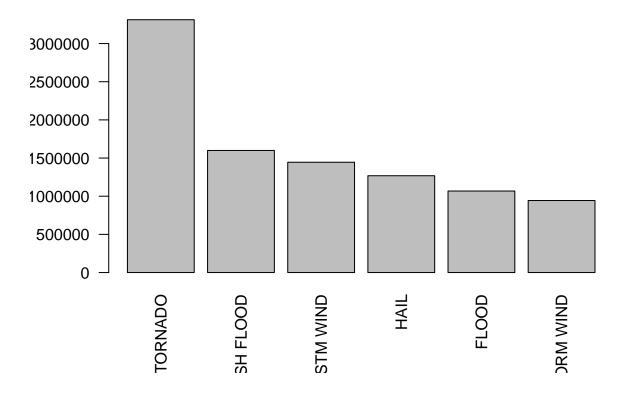
fatality+injury



Analysis data, top harmful events for prop dmg are:

```
head(dmg)
             TORNADO
##
                           FLASH FLOOD
                                                TSTM WIND
                                                                        HAIL
##
           3312276.7
                              1599325.1
                                                1445168.2
                                                                   1268289.7
##
               FLOOD THUNDERSTORM WIND
##
           1067976.4
                               943635.6
barplot(dmg[1:6], main='prop dmg + crop dmg', las=2)
```

prop dmg + crop dmg



Results:

- 1. By analysising storm data, TORNADO is the most harmful events for health.
- 2. By analysising storm data, TORNADO is also the most harmful events for damage.