

101C_final_project

```
train<-read.csv("/Users/lingjuexie/Downloads/lafdttraining.csv")
load("/Users/lingjuexie/Downloads/Training_adj.rda")
```

```
Training_adj$Dispatch.count <- table(Training_adj$incident.ID)[Training_adj$incident.ID]
#View(Training_adj)
```

```
summary(factor(Training_adj$Dispatch.count))
```

```
##      1      2      3      4      5      6      7      8      9
## 463104 1220134 402882 69948 25790 18384 15449 14720 14139
##      10     11     12     13     14     15     16     17     18
##  13800  12507   8052   6071   4186   3585   2912   2635   1746
##      19     20     21     22     23     24     25     26     27
##   1140   1340   924   484   529   600   625   520   567
##      28     29     30     31     32     33     34     35     36
##    224    377    510    372    224    231    408    280    288
##      37     38     39     40     41     42     43     44     45
##    148    228    156    120     82    378    172    264    180
##      46     47     48     49     50     51     52     53     54
##    230    188    192     98    150     51    104    159     54
##      55     56     57     58     59     60     61     63     64
##    110    168     57     58    236    120     61     63    128
##      66     67     68     69     74     76     77     79     81
##    132     67     68    207     74     76    154     79     81
##      92     93     94    100    101
##      92     93     94    100    101
```

```
elapsed_mean<-c()
diff<-c()
diff[1]<-0
for(i in 1:101){
  elapsed_mean[i]<-mean(Training_adj[which(Training_adj$Dispatch.count==i),]$elapsed_time)
  if(i>1) diff[i]<-elapsed_mean[i]-elapsed_mean[i-1]
}
diff
```

```
## [1] 0.000000 44.675927 42.814472 122.582395 -14.562429
## [6] -2.358874 -13.683499 24.490276 50.807085 22.507068
## [11] -9.570344 150.218865 -34.225005 11.672144 4.377619
## [16] 111.197303 638.936668 -416.696366 606.486064 -51.708327
## [21] 264.187775 -454.450610 429.469266 -235.620561 1439.070267
## [26] -1711.588600 837.379056 -293.296021 -133.211219 23.446320
## [31] 538.067078 -6.239679 2409.008252 -2029.736631 269.793557
## [36] -814.512103 1497.143956 -1224.089497 4506.118084 -4081.579487
## [41] 766.227236 1570.713770 -1794.934416 -293.269468 538.146212
## [46] 4443.860870 -2469.952359 -890.397052 2018.404868 8993.223673
## [51] -12140.275294 4507.129525 -1783.303036 2466.556953 -5828.184512
## [56] 2322.447078 -3740.779135 4090.782214 1165.331970 -583.745763
## [61] 104.262295 NaN NaN 8418.542411 NaN
## [66] NaN 5598.280868 -1866.565628 6351.991830 NaN
## [71] NaN NaN NaN NaN NaN
## [76] NaN 6255.175325 NaN NaN NaN
```

```
## [81]      NaN      NaN      NaN      NaN      NaN
## [86]      NaN      NaN      NaN      NaN      NaN
## [91]      NaN      NaN 5284.142006 -13974.509952      NaN
## [96]      NaN      NaN      NaN      NaN      NaN
## [101] -11953.059208
```

```
plot(1:101,elapsed_mean,type="l")
```

