Part 1

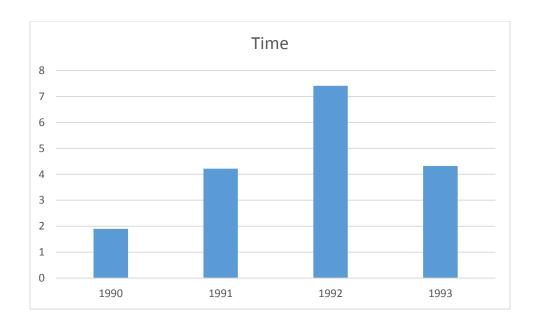
I ran the max_temperature script for all the 4 data sets and have also observed the execution of each job.

Execution times for the data sets with the RAM are as follows:

This is for 1024 MB RAM

```
@vagrant-ubuntu-trusty-64:/vagrant/hadoop-book-master/ch02-mr-intro/src/main/awk$ time ./max_temperature.sh
       1m9.462s
0m59.676s
0m9.692s
real
vagrant@vagrant-ubuntu-trusty-64:/vagrant/hadoop-book-master/ch02-mr-intro/src/main/awk$ time ./max_temperature.sh
1990 607
       1m31.836s
1m16.938s
0m14.539s
real
user
sys 0m14.539s
vagrant@vagrant-ubuntu-trusty-64:/vagrant/hadoop-book-master/ch02-mr-intro/src/main/awk$ time ./max_temperature.sh
1991 607
       4m22.223s
3m45.833s
0m35.843s
real
user
7m41.673s
6m28.589s
1m8.100s
real
user
sys
vagrant@vagrant-ubuntu-trusty-64:/vagrant/hadoop-book-master/ch02-mr-intro/src/main/awk$ time ./max_temperature.sh
1993   567
real
user
       4m32.290s
3m49.082s
0m40.445s
vagrant@vagrant-ubuntu-trusty-64:/vagrant/hadoop-book-master/ch02-mr-intro/src/main/awk$
```

Time taken for every year -



The time taken for every year is directly proportional to the size of the data.