

Part 1 output:

System configuration:

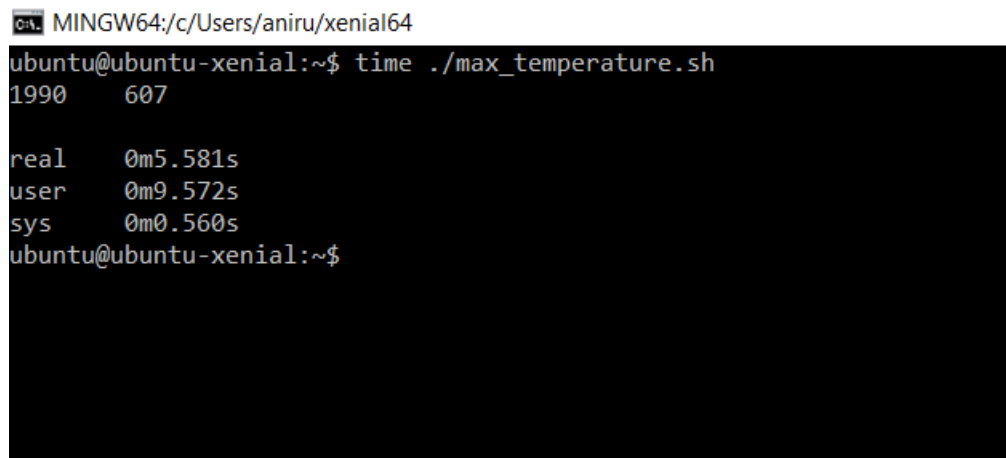
- RAM: 2 GB
- CPU Speed: 1.5 GHz

1. 1990 data set

This step took these possible execution times:

Real time: 5.581 s
User time: 9.572 s
System time: 0.560 s

Here is the screenshot of the execution:



The screenshot shows a terminal window with the title bar 'MINGW64:/c/Users/aniru/xenial64'. The prompt is 'ubuntu@ubuntu-xenial:~\$'. The command entered is 'time ./max_temperature.sh'. The output of the command is '1990 607'. Below this, the timing information is displayed: 'real 0m5.581s', 'user 0m9.572s', and 'sys 0m0.560s'. The prompt returns to 'ubuntu@ubuntu-xenial:~\$'.

```
MINGW64:/c/Users/aniru/xenial64
ubuntu@ubuntu-xenial:~$ time ./max_temperature.sh
1990      607

real    0m5.581s
user    0m9.572s
sys     0m0.560s
ubuntu@ubuntu-xenial:~$
```

2. 1990 & 1992 data set

This step took these possible execution times:

Real time: 44.799 s
User time: 74.180 s
System time: 4.676 s

Here is the screenshot of the execution:

```
MINGW64:/c/Users/aniru/xenial64
ubuntu@ubuntu-xenial:~$ time ./max_temperature.sh
1990      607
1992      605

real      0m44.799s
user      1m14.180s
sys       0m4.676s
ubuntu@ubuntu-xenial:~$
```

3. 1990, 1991, 1992 & 1993 data set

This step took these possible execution times:

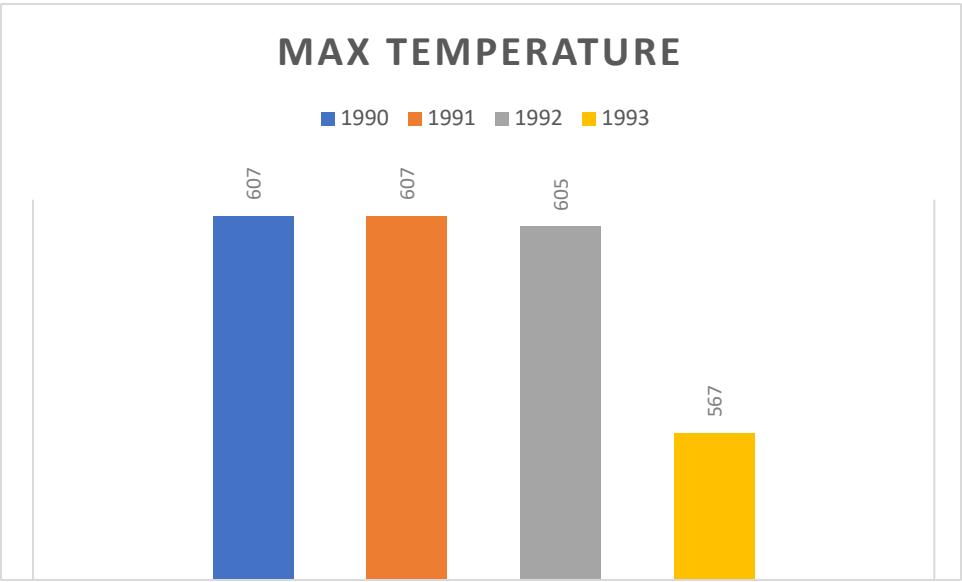
Real time: 94.627 s
User time: 149.592 s
System time: 9.400 s

Here is the screenshot of the execution:

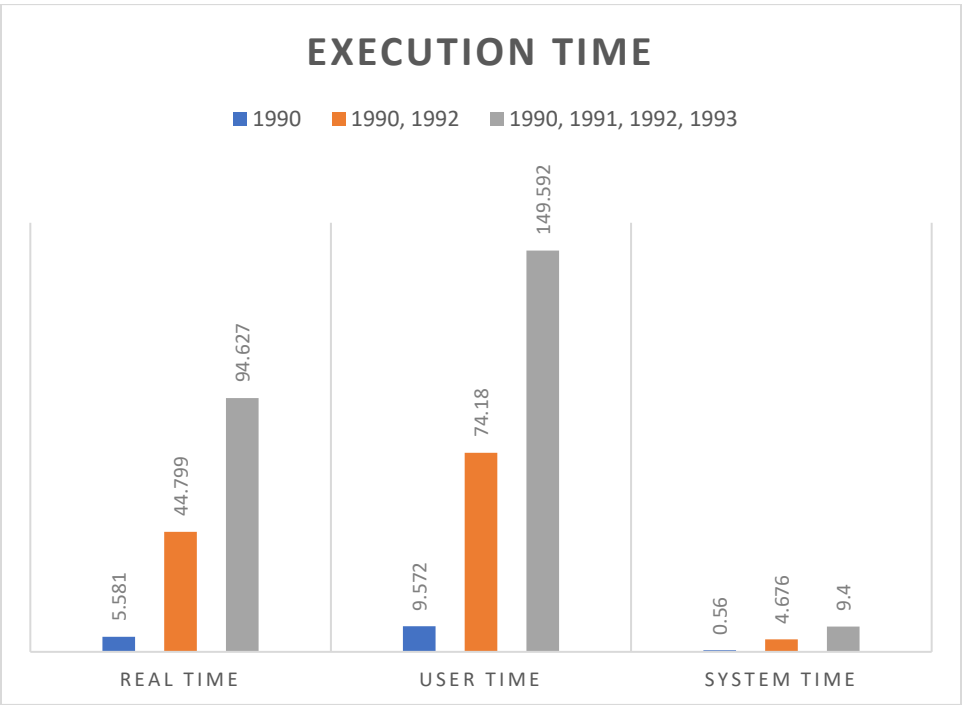
```
MINGW64:/c/Users/aniru/xenial64
ubuntu@ubuntu-xenial:~$ time ./max_temperature.sh
1990      607
1991      607
1992      605
1993      567

real      1m34.627s
user      2m29.592s
sys       0m9.400s
ubuntu@ubuntu-xenial:~$
```

Chart/Graph for max temperature:



Chart/Graph for execution time:



Part 2 output:

System configuration:

- RAM: 2 GB
- CPU Speed: 1.5 GHz