

Assignment -1 (16 July 2019)

The objective of this assignment is to appreciate the notion of time complexity and easy vs hard problems

Implement functions n , n^2 , n^3 , 2^n with logic using simple loop structures and find the maximum size of n for which the result can be computed within 1 sec of system time.

HELP

```
#include <time.h>

clock_t start, end;
double cpu_time_used;

start = clock();
... /* Do the work. */
end = clock();
cpu_time_used = ((double) (end -
start)) / CLOCKS_PER_SEC;
```