Computation intensive:

How does increase in MAX\_NUM value affect page allocation?

When I increase MAX\_NUM from 100 to 1000000 to 1000000000 I could see that the kernel page size remaining the same in all the address , for max\_num value 100000 to 100 I could see some less virtual address in max\_num 100.

Memory Intensive:

1. What is the difference between first and second for loop?

First for loop will fill values 0 row wise and Second for loop will fill value 5 column wise.

2. How many pages are allocated for the matrix?

17

3. Which loop performs better?

First for loop runs faster than second.

First loop : 337 micro seconds

second loop : 428 micro seconds

4. What happens if the number of rows increase?

Row increased from 100 to 1000

If the row increases the first nested for loop performs better than second nested for loop.

First loop : 2618 micro seconds

second loop : 4614 micro seconds

5. What happens if the number of columns increase?

Column increased from 512 to 5120

If the column increases the second nested for loop performs better than first nested for loop.

First loop : 4382 micro seconds

second loop : 3039 micro seconds