

**Write a C program that takes, as a command line argument, the number of megabytes of memory it will use and during execution it should consume that much memory. Observe memory usage during program execution using free command.**

```
vaibhav@ubuntu: ~  
Every 1.0s: free -m                                     ubuntu: Wed Nov  9 19:50:09 2022  


|       | total | used | free | shared | buff/cache | available |
|-------|-------|------|------|--------|------------|-----------|
| Mem:  | 1975  | 453  | 1285 | 16     | 236        | 1361      |
| Swap: | 2889  | 404  | 2485 |        |            |           |


```

```
vaibhav@ubuntu: ~  
Every 1.0s: free -m                                     ubuntu: Wed Nov  9 19:50:37 2022  


|       | total | used | free | shared | buff/cache | available |
|-------|-------|------|------|--------|------------|-----------|
| Mem:  | 1975  | 1807 | 72   | 14     | 95         | 39        |
| Swap: | 2889  | 1007 | 1882 |        |            |           |


```

```
vaibhav@ubuntu:~$ nano lab.c  
vaibhav@ubuntu:~$ gcc lab.c  
vaibhav@ubuntu:~$ ./a.out 2000 30  
Current Process ID = 13705  
...(done)  
vaibhav@ubuntu:~$
```

```
vaibhav@ubuntu: ~  
vaibhav@ubuntu: ~  
Every 1.0s: free -m  
ubuntu: Wed Nov 9 19:51:36 2022
```

	total	used	free	shared	buff/cache	available
Mem:	1975	267	1627	7	81	1591
Swap:	2889	542	2347			