

```
#include<stdio.h>
#include<stdlib.h>
#include<time.h>
#include<unistd.h>

int main(int argc, char* argv[])
{
    printf("Current Process ID = %d\n",getpid());
    long int size = ((long int)atoi(argv[1]))*1024*1024;
    int* buffer = (int*)malloc(size);
    time_t endwait, seconds, start;
    seconds=atoi(argv[2]);
    start=time(NULL);
    endwait= start+seconds;
    while(start<endwait){
        printf(".");
        fflush(stdout);
        for(long int i=0; i<size/sizeof(int); i++)
        {
            buffer[i] = i;
        }
        start=time(NULL);
    }
    printf("(done)\n");
    return 0;
}
```

```
ubuntu@ubuntu2004:~$ free -m
              total        used         free       shared    buff/cache   available
Mem:           3907         787         2506           2         612         2885
Swap:           975           0          975
ubuntu@ubuntu2004:~$ ./Ex_6 100 20
Current Process ID = 1959
.....
.....
.....
....(done)
ubuntu@ubuntu2004:~$
```

```
ubuntu@ubuntu2004:~$ free -m
```

	total	used	free	shared	buff/cache	available
Mem:	3907	886	2407	2	612	2786
Swap:	975	0	975			

```
ubuntu@ubuntu2004:~$
```