

```

Open  [icon]
1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<time.h>
4 #include<unistd.h>
5 int main(int argc, char *argv[])
6 {
7     printf("Current Process I.D = %d\n", getpid());
8     long long int size = ((long long int) atoi (argv[1])) *1024 *1024;
9     int* buffer = (int*) malloc(size);
10    time_t endwait , seconds , start;
11    seconds = atoi(argv[2]);
12    start=time(NULL);
13    endwait = start+seconds;
14    while(start<endwait){
15        printf(".");
16        fflush(stdout);
17        for(long long int i=0; i<size/sizeof(int);i++){
18            buffer[i] = i;
19        }
20        start = time(NULL);
21    }
22    printf("(done)\n");
23    return 0;
24 }

```

```

akshay@akshay-VirtualBox: ~
akshay@akshay-VirtualBox:~$ free
              total        used         free       shared    buff/cache   available
Mem:           2980580        954764        305136         41160        1720680        1818060
Swap:          4413436           0        4413436
akshay@akshay-VirtualBox:~$

```

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akshay@akshay-VirtualBox:~$ gedit free.c
akshay@akshay-VirtualBox:~$ gcc free.c
akshay@akshay-VirtualBox:~$ ./a.out
Current Process I.D = 5026
Segmentation fault (core dumped)
akshay@akshay-VirtualBox:~$ free
              total        used         free       shared    buff/cache   available
Mem:           2980580       987040        270640         41160        1722900        1785736
Swap:          4413436           0        4413436
akshay@akshay-VirtualBox:~$

```