



```
/* ***** LFD301:4.19-beta s_18/lab_wastemem.c ***** */
/*
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 */
/* simple program to defragment memory, J. Cooperstein 2/04
  @*/

#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#define MB (1024*1024)

int main(int argc, char **argv)
{
    int j, m;
    char *c;
    if (argc < 2) {
        fprintf(stderr,
            "You must give the memory in MB to waste, aborting\n");
        exit(EXIT_FAILURE);
    }
    m = atoi(argv[1]);
    for (j = 0; j < m; j++) {
        /* yes we know this is a memory leak, no free, that's the idea! */
        c = malloc(MB);
        memset(c, j, MB);
        printf("%5d", j);
        fflush(stdout);
    }
    printf("All memory allocated, pausing 5 seconds\n");
    sleep(5);
    printf("Quitting and releasing memory\n");
    exit(EXIT_SUCCESS);
}
```