

```
1  /* https://stackoverflow.com/questions/12687274/size-of-stack-and-heap-memory */
2  #include <stdlib.h>
3  #include <stdio.h>
4  #include <unistd.h>
5
6  void check(int depth, char a) {
7      char b[1024*1024];
8      char *ptr = malloc(1);
9      printf("heap at %p\n", ptr);
10     printf("&b: %p\n", &b);
11     printf("&depth: %p, depth: %d\n", &depth, depth);
12     printf("&a: %p\n\n", &a);
13     if (depth <= 0) return;
14     check(depth-1, a);
15 }
16
17 int main() {
18     printf("&main: %p\n", &main);
19     printf("&check: %p\n\n", &check);
20     check(3, 'a');
21     getchar();
22     return 0;
23 }
```