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