```
#include <stdio.h>
1
2
     #include <stdlib.h>
3
     #include <string.h>
4
5
     \#define SWAP(A, B) { typeof(A) C; C = A; A = B; B = C; }
6
7
8
     //Complexity is O(n^2)
9
     void babSort(const char * in, char * out) {
10
11
         strcpy(out, in);
12
13
         for(int i = 0; i < strlen(out); i++){</pre>
              for(int j = 0; j < strlen(out) - i - 1; j++)
if(out[j] > out[j + 1]) {
14
15
16
                      SWAP(out[j], out[j + 1]);
17
                  }
18
         }
19
     }
20
21
     int main(int argc, const char * argv[]) {
22
23
         if(argc <= 1) {</pre>
24
                  return 0;
25
         }
26
27
         const char * toSort = argv[1];
28
         char sorted[strlen(toSort)];
29
         sprintf(sorted, "%s", '\0');
30
31
         printf("Input string is: %s\n", toSort);
32
         babSort(toSort, sorted);
33
34
         printf("Output string is: %s\n", sorted);
35
36
         return 0;
37
     }
```