```c
#include <stdio.h>
#include <string.h>
#include <ctype.h>
#include <math.h>

void myStrCpy1(const char *inStr, char * outStr) {

    for(int i = 0;;i++) {
        outStr[i] = inStr[i];

        if(inStr[i] == '\0') {
            return;
        }
    }
}

void myStrCpy2(const char *inStr, char * outStr) {

    memcpy(outStr, inStr, strlen(inStr) + 1);
}

void myStrCpyOpos(const char *inStr, char * outStr) {

    for(int i = 0;;i++) {
        if(inStr[i] == '\0') {
            outStr[i] = inStr[i];
            return;
        }

        outStr[strlen(inStr) - i - 1] = inStr[i];
    }
}

void own_itoa(long long int value_to_be_converted, char * output_string) {
    sprintf(output_string, "%lli", value_to_be_converted);
}

void own_itoa2(long long int value_to_be_converted, char * output_string) {

    long long int value = value_to_be_converted;
    int val_size = log10(value);
    int ret = 0;


    char buffer[val_size];
    buffer[0] = '\0';
    char buffer2[val_size];
    buffer2[0] = '\0';

    while(1) {
        ret = value % 10;
        value = value / 10;

        buffer[0] = ret + '0';
        buffer[1] = '\0';

        strcat(buffer, buffer2);
        strcpy(buffer2, buffer);

        if(value == 0) {
            strcat(output_string, buffer2);
            return;
        }
    }
}

int main(int argc, const char * argv[]) {

    const char * inString = "This is input string";
    const char * inString2 = "0123456789";
    char outString[strlen(inString)];
    char outString2[strlen(inString)];
    char outString3[strlen(inString)];
```

```
74      outString[0] = '\0';
75      outString2[0] = '\0';
76      outString3[0] = '\0';
77
78      printf("1)input string: %s\n", inString);
79      printf("2)output buffer: %s\n", outString);
80
81      myStrCpy1(inString, outString);
82
83      printf("3)output string: %s\n", outString);
84
85      myStrCpy2(inString, outString2);
86      printf("4)output string: %s\n", outString2);
87
88      myStrCpyOpos(inString2, outString3);
89      printf("5)output string reordered: %s\n", outString3);
90
91      if(argc <= 1) {
92          return 0;
93      }
94      char outString4[strlen(argv[1])];
95      myStrCpyOpos(argv[1], outString4);
96      printf("6)output string reordered: %s\n", outString4);
97
98      long long int value = 1324657980;
99      int val_size = log10(value);
100
101     char outString5[val_size];
102     outString5[0] = '\0';
103     printf("7)input number is: %lli\n", value);
104     own_itoa(value, outString5);
105     printf("8)output number as a string: %s\n", outString5);
106
107     char outString6[val_size];
108     outString6[0] = '\0';
109     own_itoa2(value, outString6);
110     printf("9)output number as a string: %s\n", outString6);
111
112     return 0;
113 }
```