CSE107 - Lab10 Task

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Write two C programs that performs the task described below. Name your c files as nameSurnameId_questionNo.c [ex: basakKarakas1850044026_1.c and basakKarakas1850044026_2.c]

Upload your file to your section's submission page on moodle.

1 Task

1. Write the reverse_string() function for the given code below. (Hint: use strlen() function which gives the length of a string.)

```
#include < stdio.h>
               #include < string . h >
               void reverse_string(char str[]);
               int main(){
                   char str_arr[100];
                   printf("Enter a string:");
9
                   scanf("%s", str_arr);
                   reverse_string(str_arr);
11
12
                   printf("Reversed string is: %s \n", str_arr);
13
                   return 0;
14
15
16
```

2. Write print_line(), print_histogram() and len() functions for the given code below.

print_line() : Prints <int num_of_chars> times <char c> character.
print_histogram() : Prints a histogram of <int values[]> with <char
c> using print print_line() and len() functions.
len() : Returns the length of <int array[]>.

```
#include < stdio.h>
               void print_line(char c, int num_of_chars);
3
               void print_histogram(char c, int vals[]);
               int len(int arr[]);
               int main(){
                   int values[100], val=1, count=0;
                   printf("Enter positive integer(s), to print an
11
       histogram. \verb|\nEnter a non-positive integer to stop.\n");\\
                        printf("Enter a value:");
13
                        scanf("%d", &val);
14
                        values[count] = val;
15
                       count++;
16
                   }while(val > 0);
17
                   print_histogram('*', values);
18
                   return 0;
19
20
21
```

Sample:

Enter positive integer(s), to print an histogram. Enter a non-positive integer to stop.

Enter a value: 3
Enter a value: 5
Enter a value: 6
Enter a value: 2
Enter a value: -1

Output:

Good luck:)