## Assignment 3

1. Reverse elements of array without using additional array.

```
#include <stdio.h>
#define n 10

int main(){
    int temp;
    int temp;
    int arr[n];
    printf("Enter 10 space seperated integers:\n");
    for(int i = 0; i < n; i++){
        scanf("%d,", &arr[i]);
    }
    printf("Input array is:\n");
    for(int i = 0; i < n; i++){
        printf("%d ", arr[i]);
    }
    for(int i = 0; i < n; i++){
        temp = arr[i];
        arr[n-i-1] = temp;
    }
    printf("Neversed array is:\n");
    for(int i = 0; i < n; i++){
        printf("%d ", arr[i]);
    }
}

"q1.c" 24L, 528B

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All
```

```
anonymous17@Turing:~/Deskton/Myfolder/dsa3$ ./a.out
Enter 10 space seperated integers:
1 2 3 4 5 6 7 8 9 10
Input array is:
1 2 3 4 5 6 7 8 9 10
Reversed array is:
10 9 8 7 6 5 4 3 2 1 anonymous17@Turing:~/Desktop/Myfolder/dsa3$
```

2. C program to find nearest lesser and greater element in an array.

3. Display elements of array in triangle pattern. Use formatting to get a uniform display.

4. Write a program that calculates the sum of even elements of an integer array of size 20

```
#include<stdio.h>
#include<stdio.th>
#include<stdio.th}
#include<stdio.th>
#include<stdio.th>
#include<stdio.th}
#include<stdio
```

```
anonymous17@Turing:-/Desktop/Myfolder/dsa3$ ./a.out
Enter 20 integers:
1 1 2 2 3 3 4 4 5 5 6 7 7 8 8 9 9 10 10
Input array is:
1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10
Sum of all the elements at even position in the array is 55anonymous17@Turing:-/Desktop/Myfolder/dsa3$
```