# **Data Structures and Algorithms**

Assignment Day 2 25th December 2020

### **Question 1:**

Write the program for deleting an element from the beginning and from any position.

```
InlineGDB beta
and debugger for c/c++
                                  Write your code in this editor and press "Run" button to compile and execute
ile. run. debug. share.
  IDE
                               8
                              9 #include <stdio.h>
Ay Projects
                              10
                              11 int main()
ssroom new
                              12 -
n Programming
                                  int array[100], position, c, n;
                              13
                              14
mming Questions
                                       printf("Enter number of elements in array\n");
scanf("%d", &n);
                              15
                              16
                              17
  Login
                              18
                                       printf("Enter %d elements\n", n);
                              19
                               20
                                       for (c = 0; c < n; c++)
                               21
                                         scanf("%d", &array[c]);
                               22
                                       printf("Enter the location where you wish to delete element\n");
scanf("%d", &position);
                              23
24
                                        if (position >= n+1)
                               27
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                                             printf("Deletion not possible.\n");
                                           for (c = position - 1; c < n - 1; c++)
    array[c] = array[c+1];</pre>
                                           for (c = 0; c < n - 1; c++)
    printf("%d\n", array[c]);</pre>
```

#### **Output:**

```
Enter number of elements in array

4
Enter 4 elements

8

7

6

5
Enter the location where you wish to delete element

3
Resultant array:

8

7

5

...Program finished with exit code 0
Press ENTER to exit console.
```

#### Question 2:

Write the program for printing the array after rotating it k times towards left, where k would be taken as user input.

```
## Sinclude cstdio.h>

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## In int main()

## Int arr[] = {3, 4, 5, 6, 7};

## int length = sizeof(arr)/sizeof(arr[0]);

## int length = sizeof(arr[0]);

## in
```

## Output:

```
original array:
3 4 5 6 7
Array after left rotation:
4 5 6 7 3

...Program finished with exit code 0
Press ENTER to exit console.
```