

# Assignment Day 2 | 25th December 2020

## Question-1:

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

## C-Code:

```
C:\Users\Bolleddus\Desktop\BLOCKCHAIN and DS\ALOG\DS and ALGORITHM\test.c - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
password_gen.py x lambda.py x hydra_mine.py x formatter.py x check.py x check2.py x test.c x

1 #include<stdio.h>
2 int FElement(int array[], int size, int Deleted){
3     int i;
4     for (i = 0; i < size; i++){
5         if (array[i] == Deleted)
6             return i;
7     }
8     return -1;
9 }
10 int DElement(int array[], int size, int Deleted){
11     int pos = FElement(array, size, Deleted);
12     if (pos == -1) {
13         printf("Entered element not found buddy try again\n");
14         return size;
15     }
16     int i;
17     for (i = pos; i < size - 1; i++){
18         array[i] = array[i + 1];
19     }
20     return size - 1;
21 }
22 int main() {
23     int array[1000000];
24     int input, j;
25     printf("array size buddy: ");
26     scanf("%d", &input);
27     for(j = 0; j < input; j++){
28         printf("Enter the %d number buddy: ", j+1);
29         scanf("%d", &array[j]);
30     }
31     printf("\n\n");
32     int i, Deleted;
33     printf("enter the number which you want to delete: ");
34     scanf("%d", &Deleted);
35     printf("before deletion, The numbers which are present in the array: ");
36     for (i = 0; i < input; i++){
37         printf(" %d", array[i]);
38     }
39     printf("\n\n");
40     int size = DElement(array, input, Deleted);
41     printf("after deletion, The numbers which are present in the array: ");
42     for (i = 0; i < size; i++){
43         printf(" %d", array[i]);
44     }
45     return 0;
46 }
```

C source file length: 1,149 lines: 43 Ln: 43 Col: 1 Pos: 1,150 Windows (CR LF) UTF-8 INS 1:15 PM 1/2/2021

## Output:

```
array size buddy: 5
Enter the 1 number buddy: 2
Enter the 2 number buddy: 4
Enter the 3 number buddy: 3
Enter the 4 number buddy: 5
Enter the 5 number buddy: 1

enter the number which you want to delete: 5
before deletion, The numbers which are present in the array:  2  4  3  5  1

after deletion, The numbers which are present in the array:  2  4  3  1

...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.

## C-Code:

```
C:\Users\Bolleddus\Desktop\BLOCKCHAIN and DS&A\LOG\DS and ALGORITHM\test1.c - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

password_gen.py x lambola.py x hydra_mine.py x fomatter.py x check.py x check2.py x test1.c x

1 #include <stdio.h>
2 void Rotation(int arr[], int R, int n){
3     int mod = R % n;
4     printf("The result after %d Left Rotation(s) is/are: ",R);
5     for (int i = 0; i < n; i++){
6         printf("%d ",arr[(mod + i) % n]);
7     }
8     printf("\n");
9 }
10 int main()
11 {
12     int array[100000];
13     int inp,j;
14     printf("array size buddy: ");
15     scanf("%d",&inp);
16     for(j = 0 ; j < inp ; j++){
17         printf("Enter the %d number buddy: ",j+1);
18         scanf("%d",&array[j]);
19     }
20     int R;
21     printf("How many time you want to Rotate the Array towards left buddy? : ");
22     scanf("%d",&R);
23     printf("The array before Left Rotation: ");
24     for (int i = 0; i < inp; i++){
25         printf("%d ",array[i]);
26     }
27     printf("\n");
28     Rotation(array, R, inp);
29     return 0;
30 }
```

C source file length: 756 lines: 30 Ln: 30 Col: 2 Pos: 757 Windows (CR LF) UTF-8 INS

## Output:

```
array size buddy: 5
Enter the 1 number buddy: 1
Enter the 2 number buddy: 2
Enter the 3 number buddy: 3
Enter the 4 number buddy: 4
Enter the 5 number buddy: 5
How many time you want to Rotate the Array towards left buddy? : 3
The array before Left Rotation: 1 2 3 4 5
The result after 3 Left Rotation(s) is/are: 4 5 1 2 3

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