**LETSUPGRADE- DATA STRUCTURES AND ALGORITHMS- ASSIGNMENT DAY 2**

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**Question 1**

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

#include <stdio.h>

int main()

{

int array[100], position, c, n;

printf("Enter number of elements in array\n");

scanf("%d", &n);

printf("Enter %d elements\n", n);

for (c = 0; c < n; c++)

scanf("%d", &array[c]);

printf("Enter the location where you wish to delete element\n");

scanf("%d", &position);

if (position >= n+1)

printf("Deletion not possible.\n");

else

{

for (c = position - 1; c < n - 1; c++)

array[c] = array[c+1];

printf("Resultant array:\n");

for (c = 0; c < n - 1; c++)

printf("%d\n", array[c]);

}

return 0;

}

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

#include<stdio.h>

using namespace std;

// Function to rightRotate array

void RightRotate(int a[], int n, int k)

{

// If rotation is greater

// than size of array

k = k % n;

for(int i = 0; i < n; i++)

{

if(i < k)

{

// Printing rightmost

// kth elements

cout << a[n + i - k] << " ";

}

else

{ // Prints array after

// 'k' elements

cout << (a[i - k]) << " ";

}

}

cout << "\n";

}

// Driver code

int main()

{

int Array[] = { 1, 2, 3, 4, 5 };

int N = sizeof(Array) / sizeof(Array[0]);

int K = 3;

RightRotate(Array, N, K);

}