Let’sUpgrade

Day-2 Assignment

Ques1 : write a program for deleting an element from the beginning and from any position.

Ans :

#include<stdio.h>

#include<stdlib.h>

#define MAX 100

int arr[MAX];

int i = 0 ;

int size;

int position ;

int n ;

void delete\_Front();

void delete\_position();

int main(){

printf("Please enter the size of the Array : ");

scanf("%d",&size);

printf("Please enter the values in Array: \n\n ");

for(i=0; i< size ; i++){

scanf("%d",&arr[i]);

}

printf("Before deleting element in array:\n\n");

for(i=0 ; i<size ; i++){

printf(" %d \n",arr[i]);

}

printf("please enter the write choice \n 1. for deleting element from starting \n 2. deleting element from selected position");

scanf("%d" , &n);

switch (n){

case 1 :

delete\_Front();

break;

case 2 :

delete\_position();

break;

default :

printf("invalid selection/n");

}

return 0;

}

void delete\_Front(){

printf("The array after deleting the first element \n\n");

for(i = 0 ; i < size-1 ; i++){

arr[i] = arr[i+1];

printf(" %d \n", arr[i]);

}

}

void delete\_position(){

printf("Enter the position where you want to delete \n please select from 0 to %d" , size);

scanf("%d",&position);

for(i = 0 ; i < size ; i++){

if(i != position-1){

printf("%d \n", arr[i] );

}

}

}

Ques2. Write the program for printing the array after rotating it k times towards left, where k

would be taken as user input.

Answer:

#include <stdio.h>

#include <stdlib.h>

void leftRotate(int arr[], int rotation, int n)

{

int i;

for (i = 0; i < rotation; i++)

leftRotation(arr, n);

}

void leftRotation(int arr[], int n)

{

int temp = arr[0], i;

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

arr[i] = arr[i + 1];

arr[i] = temp;

}

void displayArray(int arr[], int n)

{

int i;

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

printf("%d ", arr[i]);

}

int main()

{

int arr[] = { 1, 2, 3, 4, 5, 6, 7 };

int rotation;

printf("enter the number of rotation\n");

scanf("%d",&rotation);

leftRotate(arr, rotation , 7);

displayArray(arr, 7);

return 0;

}