Rajvaibhav Rahane

17u283 223045

SE-C Comp,Viit,Pune

***CODE:***

#include<iostream>

using namespace std;

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\*@Rajvaibhav Rahane

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void printMenu(){

cout<<"1)Print Array\t";

cout<<"2)Print Sum of Elements\n";

cout<<"3)Delete Element at Position\t";

cout<<"4)Exit\n";

cout<<"Choice : ";

}

int calculateSumOfElements(const int \*arr,int length){ //return sum of elements

int sum=0;

for(int i=0;i<length;i++){

sum+=\*(arr+i);

}

return sum;

}

void printArray(const int \*arr,int length){ //print array

int i;

for(int i=0;i<length;i++){

cout<<\*(arr+i)<<" ";

}

cout<<endl;

}

void removeElement(int \*arr,int \*length,int index){ //remove an element at specified index

if(index<0 || index>=\*length) //array out of bounds

cout<<"Invalid index\n";

else{

for(int i=index+1;i<\*length;i++){ //move elements up by one

\*(arr+(i-1))=\*(arr+i);

}

(\*length)--; //decrement length by one

}

}

int main(){

int length,choice,position;

cout<<"Enter size of array and its elements\t";

cin>>length;

int arr[length];

for(int i=0;i<length;i++){

cin>>arr[i];

}

do{

printMenu();cin>>choice;

switch(choice){

case 1:{

printArray(arr,length);break;

}

case 2:{

cout<<calculateSumOfElements(arr,length)<<endl;break;

}

case 3:{

cout<<"Index(0 Based):";

cin>>position;

removeElement(arr,&length,position);break;

}

case 4:{break;}

default:{cout<<"Invalid Input.Try Again\n";}

}

}while(choice!=4);

return 0;

}

***Output:***

