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SE-C Comp,Viit,Pune

CODE:

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#include<iostream>
using namespace std;
/*
*@Rajvaibhav Rahane
*
*/
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 : ";
}
intcalculateSumOfElements(constint *arr,int length){ //return sum of elements
        int sum=0;
        for(inti=0;i<length;i++){
                sum+=*(arr+i);
        }
        return sum;
}
void printArray(constint *arr,int length){                //print array
        inti;
        for(inti=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(inti=index+1;i<*length;i++){   //move elements up by one
                        *(arr+(i-1))=*(arr+i);
                }
                (*length)--;                                //decrement length by one
        }
}
intmain(){
        intlength,choice,position;
        cout<<"Enter size of array and its elements\t";
        cin>>length;
        intarr[length];
        for(inti=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: