#include <iostream>

using namespace std;

template <class T>

class vector{

T a[100];

int size;

public :

void read(){

cout<<"Size of array"<<endl;

cin>>size;

cout<<"Enter elements :"<<endl;

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

cin>>a[i]; }

}

void print();

void multiply();

void modify();};

template <class T>

void vector<T>::print (){

cout<<"Vector : (";

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

cout<<a[i];

if(i<size-1)cout<<","; }

cout<<")";

cout<<endl;}

template <class T>

void vector<T>:: modify(){

int k,lat;

cout<<"Enter serial no. You want to modify"<<endl;

cin>>k;

cout<<"Enter Latest Element"<<endl;

cin>>lat;

a[k-1]=lat; }

template <class T>

void vector<T>:: multiply(){

int k;

cout<<"Enter scaler"<<endl;

cin>>k;

for(int i=0;i<size;i++)a[i]=a[i]\*k; }

int main(){

vector <int>Oint;

int n,t=1;

while(t){

cout<<"What do you want to perform\n1.Read\n2.Modify Element\n3.Multiply vector bt scaler\n4.Display\n5.Exit"<<endl;

cin>>n;

switch(n){

case 1:

Oint.read();

break;

case 2:

Oint.modify();

break;

case 3:

Oint.multiply();

break;

case 4:

Oint.print();

break;

case 5:

t=0;

break;

default:

cout<<"Wrong Input !!\nEnter Valid Option\n";

}}}