#include <stdio.h>

void insert(int \*a,int num,int pos);

void search (int \*a,int num,int n);

void display(int \*a,int n);

void delete(int \*a,int pos,int n);

int main()

{ int num,pos,i,ch,n;

printf("enter size of array \n");

scanf("%d",&n);

int a[n];

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

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

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

}lable:

printf("select option\n 1.insert\n2.search\n3.display\n4.delete\n");

scanf("%d",&ch);

switch(ch){

case 1:

printf("enter number and position\n");

scanf("%d %d",&num,&pos);

insert(a,num,pos);

display(a,n);

break;

case 2:

printf("enter number\n");

scanf(" %d ", &num);

search(a,num,n);

break;

case 3:

display(a,n);

break;

case 4:

printf("enter position\n");

scanf(" %d ", &pos);

delete(a,pos,n);

display(a,n);

break;

default:

printf("enter valid number\n");

break;

}goto lable;

return 0;

}

void display(int \*a,int n){

printf("array is:\n");

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

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

}

}

void insert(int \*a,int num,int pos){

a[pos]=num;

}

void search (int \*a,int num,int n){int flag=1;

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

if(a[i]==num)

{flag=0;

}

}

if(flag==0){ printf("is array element\n");}

else{printf("is not array element\n");}

}

void delete(int \*a,int pos,int n){

a[pos]=0;

}

--------------------------------------------------------------------------------------------------------------------------------------output:

enter size of array

3

enter a[0]

15

enter a[1]

25

enter a[2]

35

select option

1.insert

2.search

3.display

4.delete

4

enter position

2

array is:

15 25 0

select option

1.insert

2.search

3.display

4.delete

3

array is:

15 25 0

select option

1.insert

2.search

3.display

4.delete

1

enter number and position

45 2

array is:

15 25 45 select option

1.insert

2.search

3.display

4.delete

2

enter number

45

is array element