#include<stdio.h>

#include<conio.h>

int a[5],b[5],c[5];

int m,n,p,val,i,j,key,pos,temp;

void create();

void display();

void insert();

void del();

void merge();

int main()

{

int choice;

do

{

printf("1.Create\n");

printf("2.Display\n");

printf("3.Insert\n");

printf("4.Delete\n");

printf("5.Merge\n");

printf("6.Exit\n");

printf("\nEnter your choice:\t");

scanf("%d",&choice);

switch(choice)

{

case 1: create();

break;

case 2: display();

break;

case 3: insert();

break;

case 4: del();

break;

case 5: merge();

break;

case 6: exit(0);

break;

default: printf("\nInvalid choice:\n");

break;

}

}

while(choice!=6);

return 0;

}

void create()

{

printf("\nEnter the size of the array elements:\t");

scanf("%d",&n);

printf("\nEnter the elements for the array:\n");

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

{

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

}

}

void display()

{

int i;

printf("\nThe array elements are:\n");

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

{

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

}

}

void insert()

{

printf("\nEnter the position for the new element:\t");

scanf("%d",&pos);

printf("\nEnter the element to be inserted :\t");

scanf("%d",&val);

for(i=n-1;i>=pos;i--)

{

a[i+1]=a[i];

}

a[pos]=val;

n=n+1;

}

void del()

{

printf("\nEnter the position of the element to be deleted:\t");

scanf("%d",&pos);

val=a[pos];

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

{

a[i]=a[i+1];

}

n=n-1;

printf("\nThe deleted element is =%d",val);

}

void merge()

{

printf("\nEnter the size of the second array:\t");

scanf("%d",&m);

printf("\nEnter the elements for the second array:\n");

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

{

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

}

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

{

c[j]=a[i];

}

for(i=0;i<m;i++,j++)

{

c[j]=b[i];

}

p=n+m;

printf("\nArray elements after merging:\n");

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

{

printf("%d\t",c[i]);

}

}