#include<stdio.h>

main()

{

int student[40],pos,i,size,value;

printf("enter no of elements in array of students:\n");

scanf("%d",&size);

printf("\nenter %d elements are:\n",size);

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

{

scanf("%d",&student[i]); //initial array of size 10

}

printf("\nelements are:\n");

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

{

printf("%d\t",student[i]); // print the original array

}

printf("\nenter the position where you want to insert the element: \n");

scanf("%d",&pos);

printf("\nenter the value into that poition:\n ");

scanf("%d",&value);

for(i=size-1;i>=pos-1;i--) // shift elements forward

{

student[i+1]=student[i];

}

student[pos-1]= value; // insert value at pos

printf("\nfinal array after inserting the value is \n");

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

printf("%d\t",student[i]); // print the updated array

}