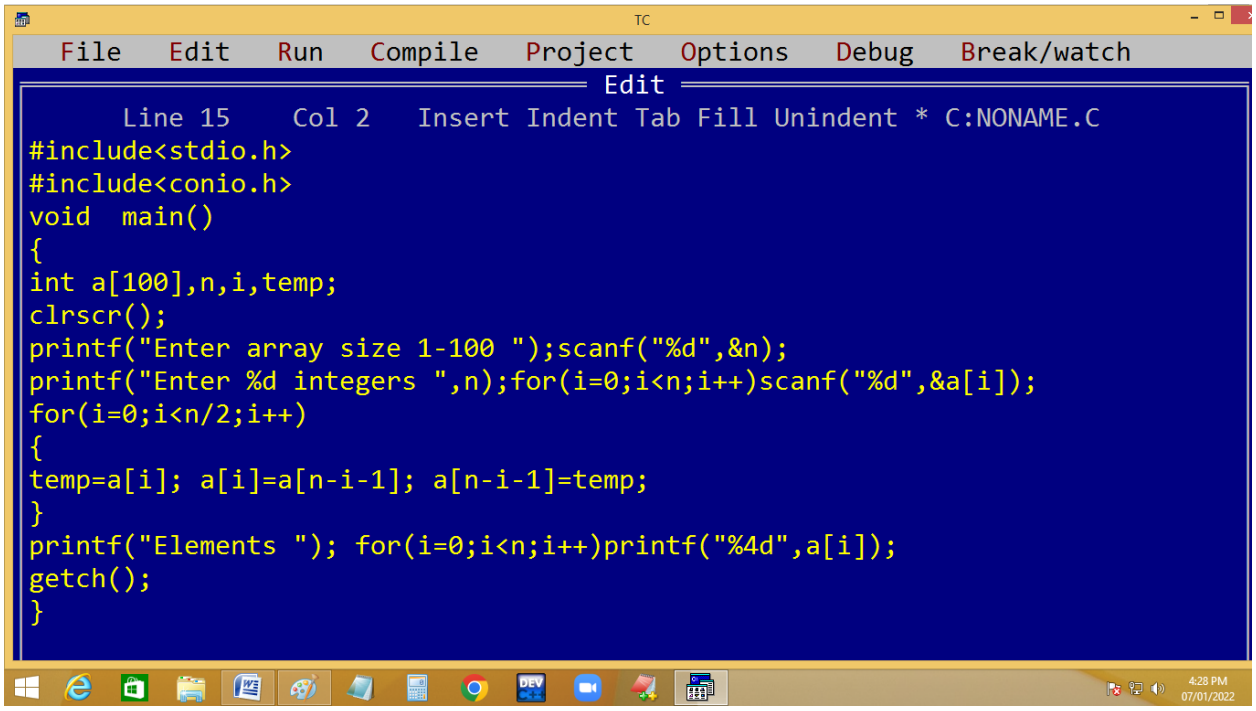
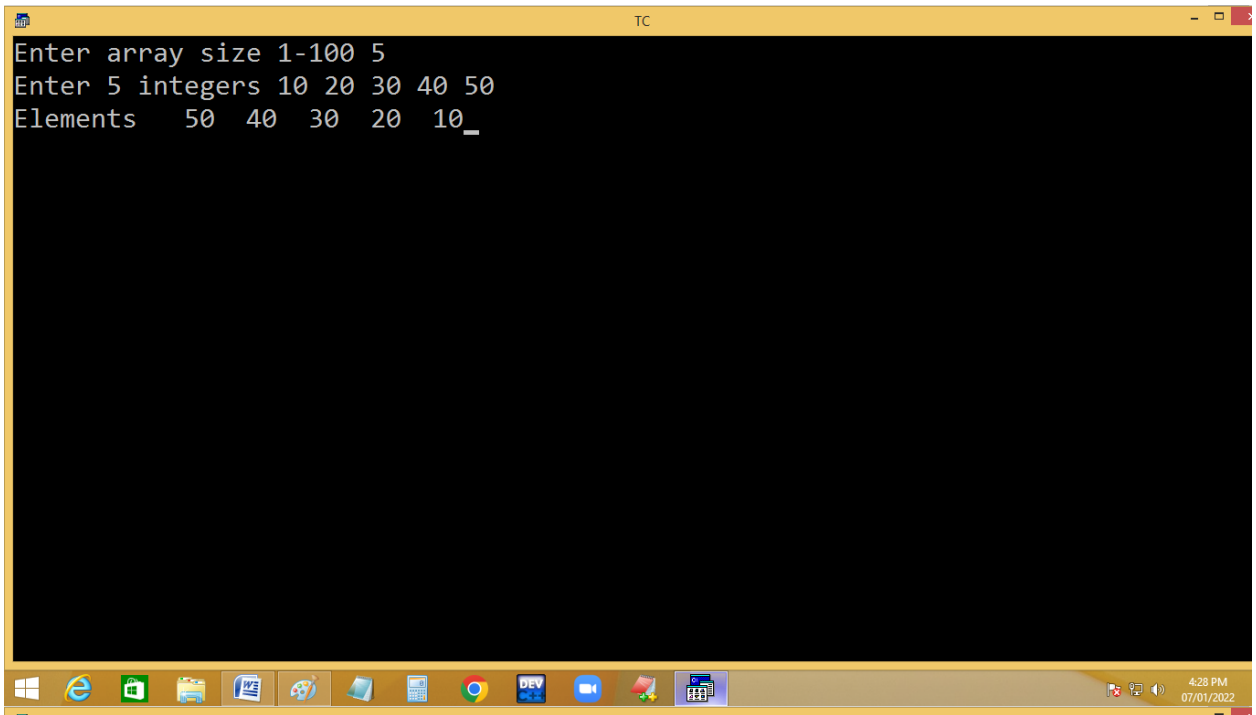
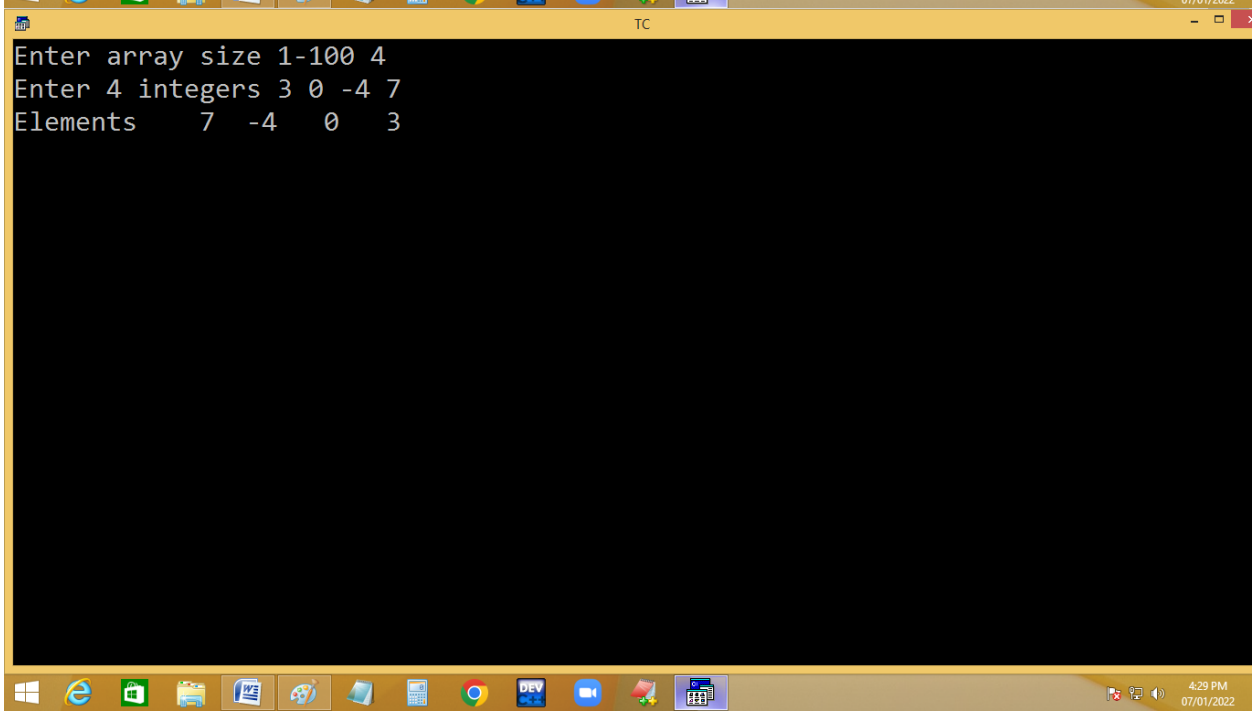
Arranging array elements in reverse order.

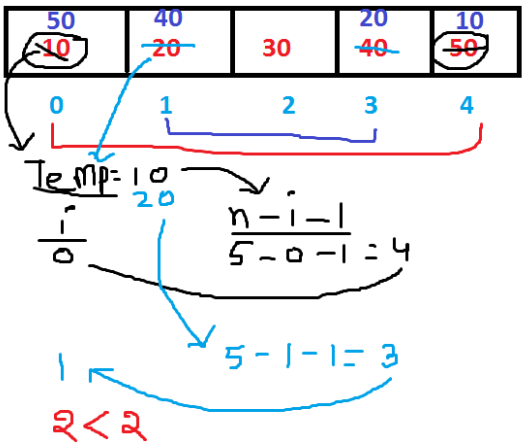



TC
Enter array size 1-100 5
Enter 5 integers 10 20 30 40 50
Elements 50 40 30 20 10
4:28 PM
07/01/2022

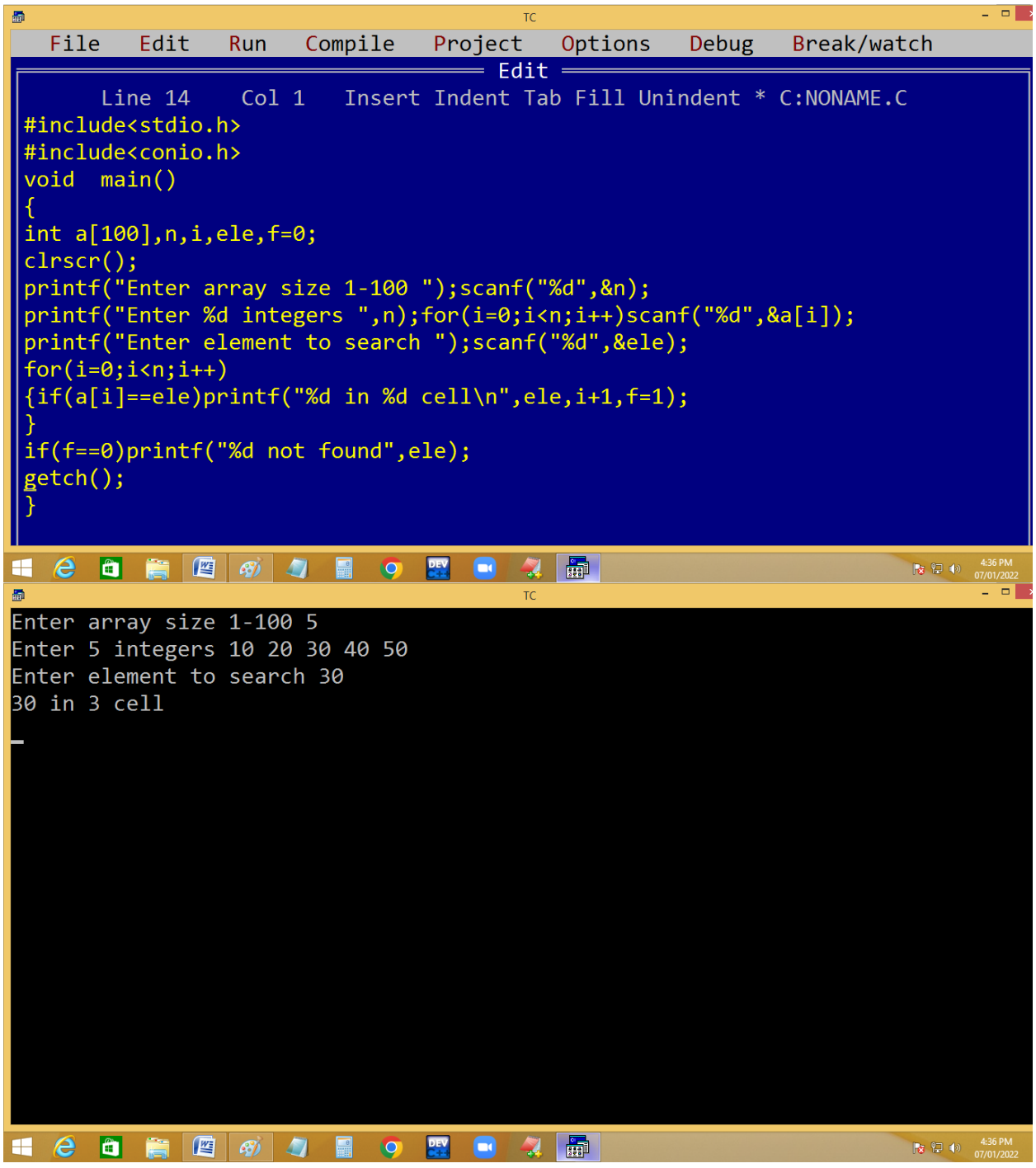

TC
Enter array size 1-100 4
Enter 4 integers 3 0 -4 7
Elements 7 -4 0 3
4:29 PM
07/01/2022

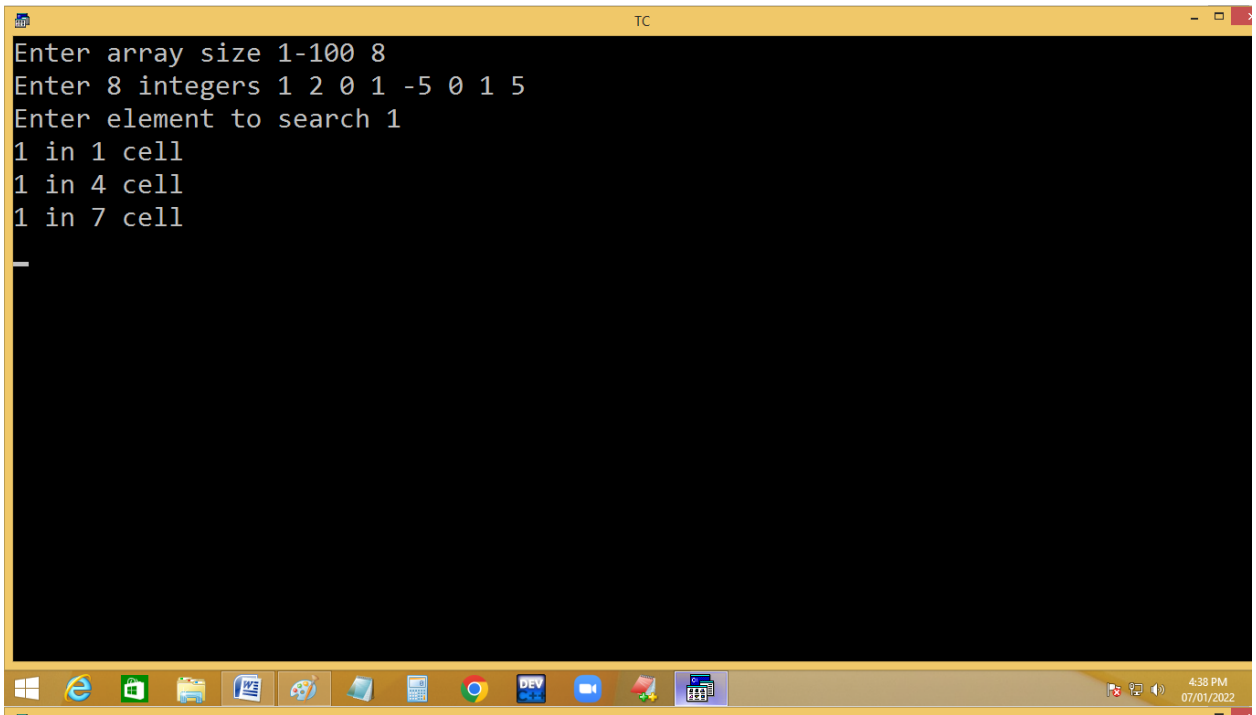
```
for(i=0;i<5/2;i++)
{
temp=a[i];
a[i]=a[5-i-1];
a[5-i-1]=temp;
}
```

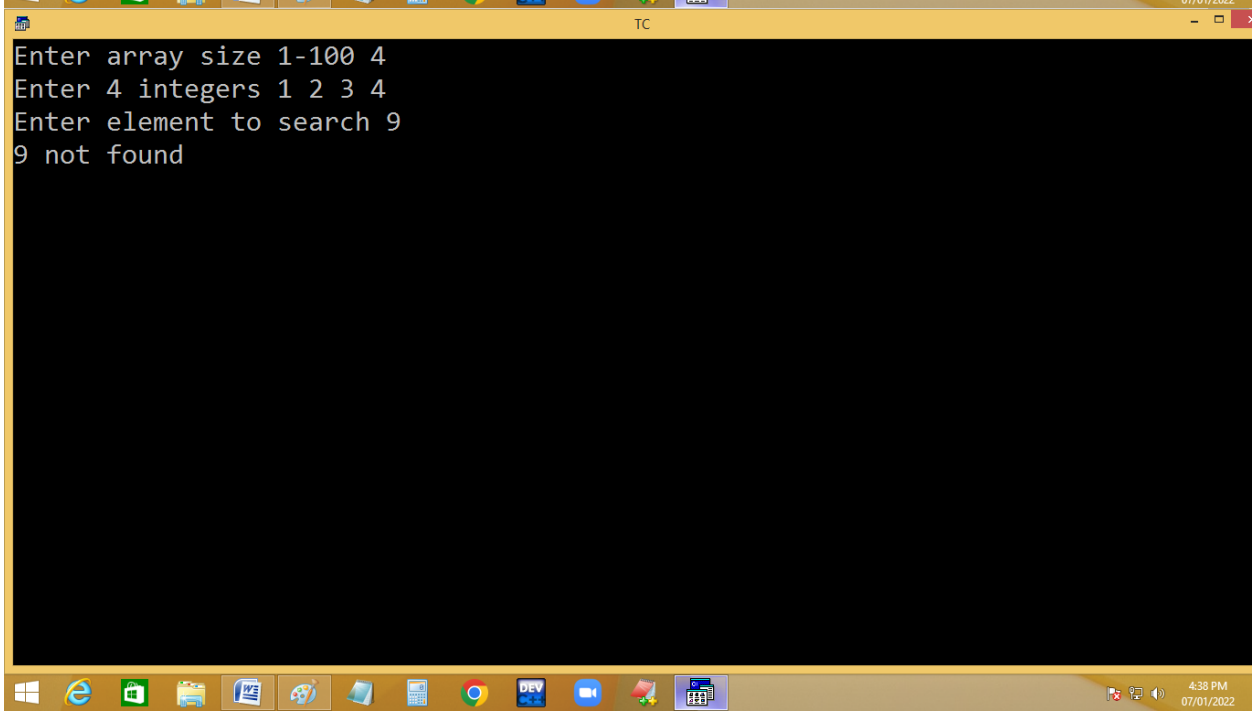
$\frac{n}{5}$



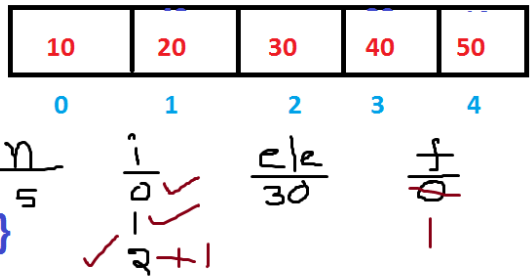
Eg. linear search:


TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 14 Col 1 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,ele,f=0;
clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d integers ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);
printf("Enter element to search ");scanf("%d",&ele);
for(i=0;i<n;i++)
{if(a[i]==ele)printf("%d in %d cell\n",ele,i+1,f=1);
}
if(f==0)printf("%d not found",ele);
getch();
}
4:36 PM
07/01/2022
TC
Enter array size 1-100 5
Enter 5 integers 10 20 30 40 50
Enter element to search 30
30 in 3 cell
4:36 PM
07/01/2022

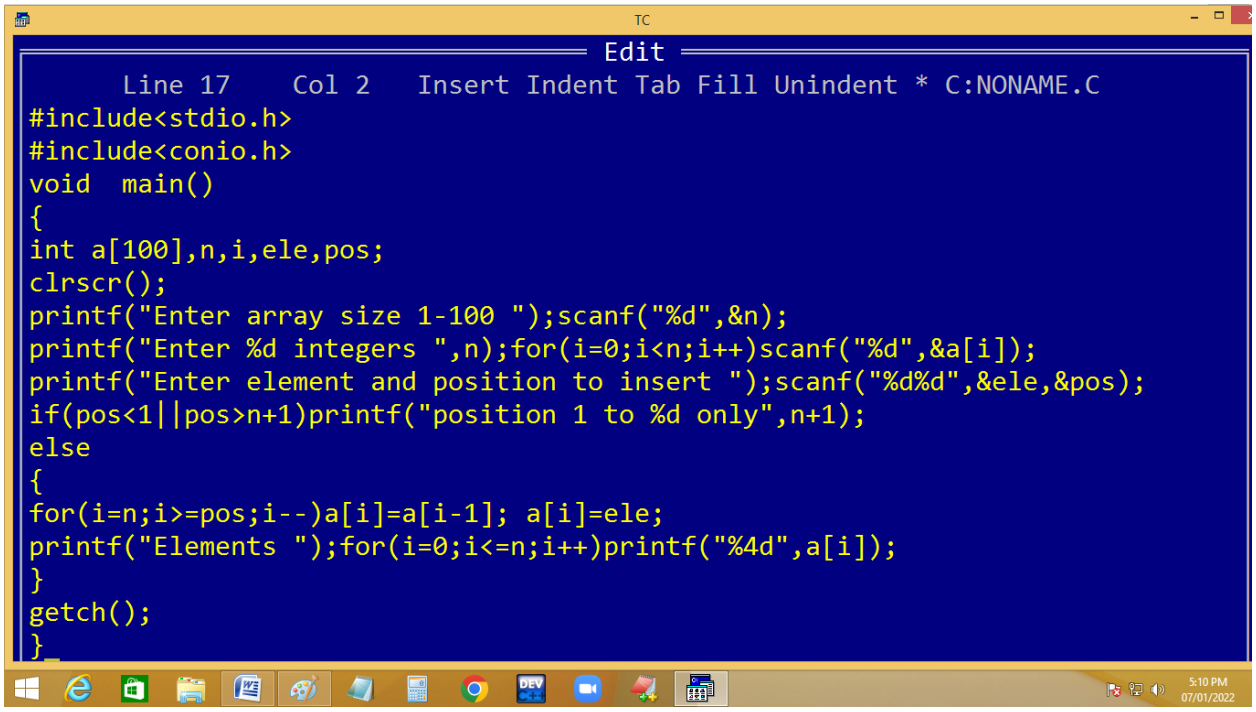

TC
Enter array size 1-100 8
Enter 8 integers 1 2 0 1 -5 0 1 5
Enter element to search 1
1 in 1 cell
1 in 4 cell
1 in 7 cell
4:38 PM
07/01/2022

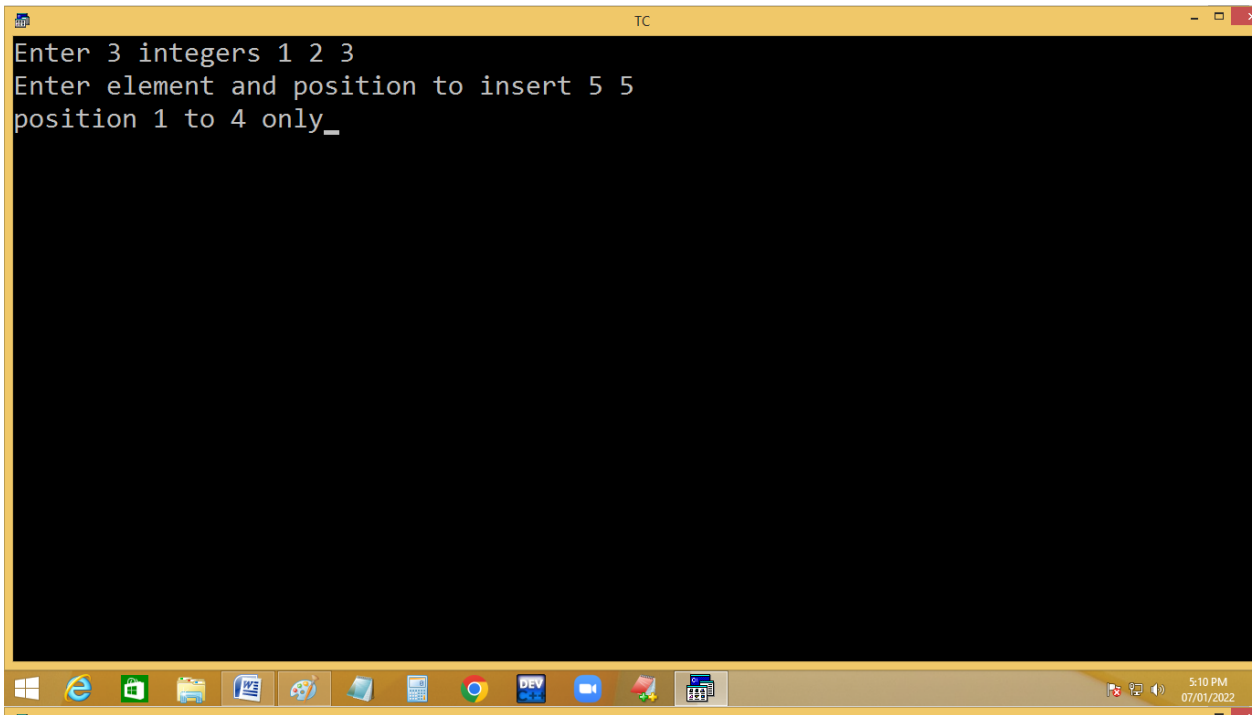

TC
Enter array size 1-100 4
Enter 4 integers 1 2 3 4
Enter element to search 9
9 not found
4:38 PM
07/01/2022

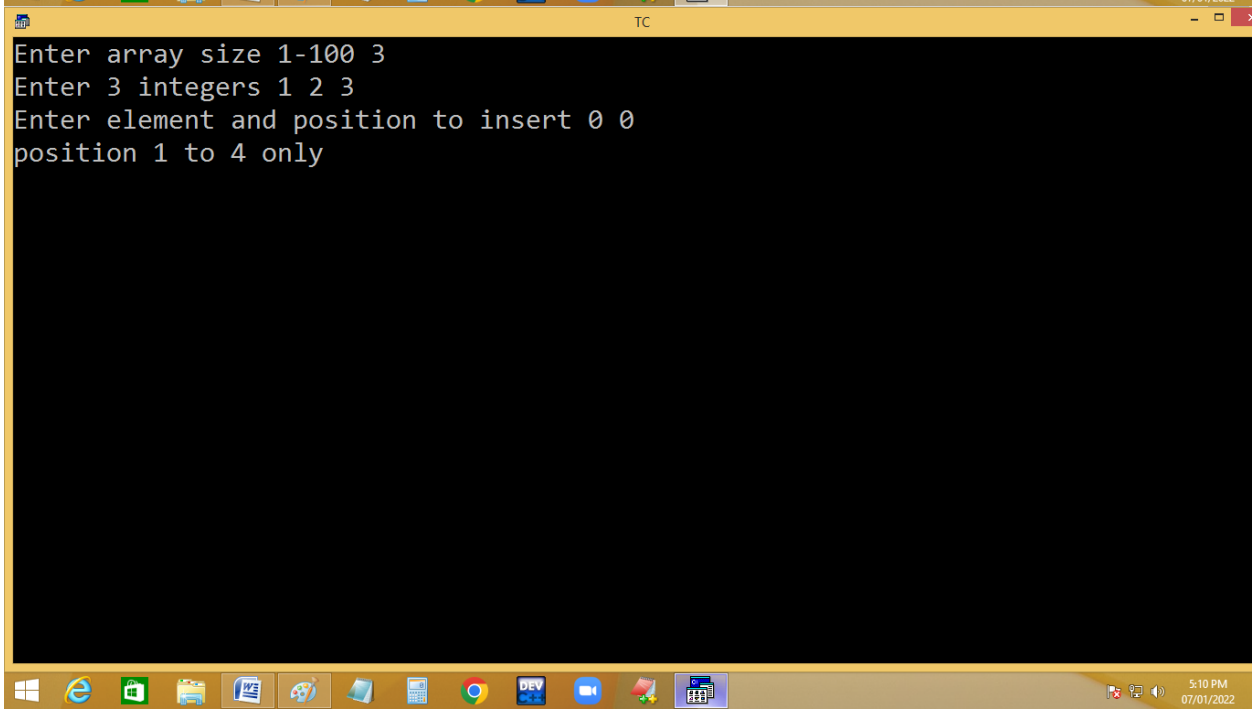
```
for(i=0;i<n;i++)
{
if(a[i]==ele)
{p("%d in %d cell\n",ele,i+1,f=1);}
}
if(f==0)p("not found");
```

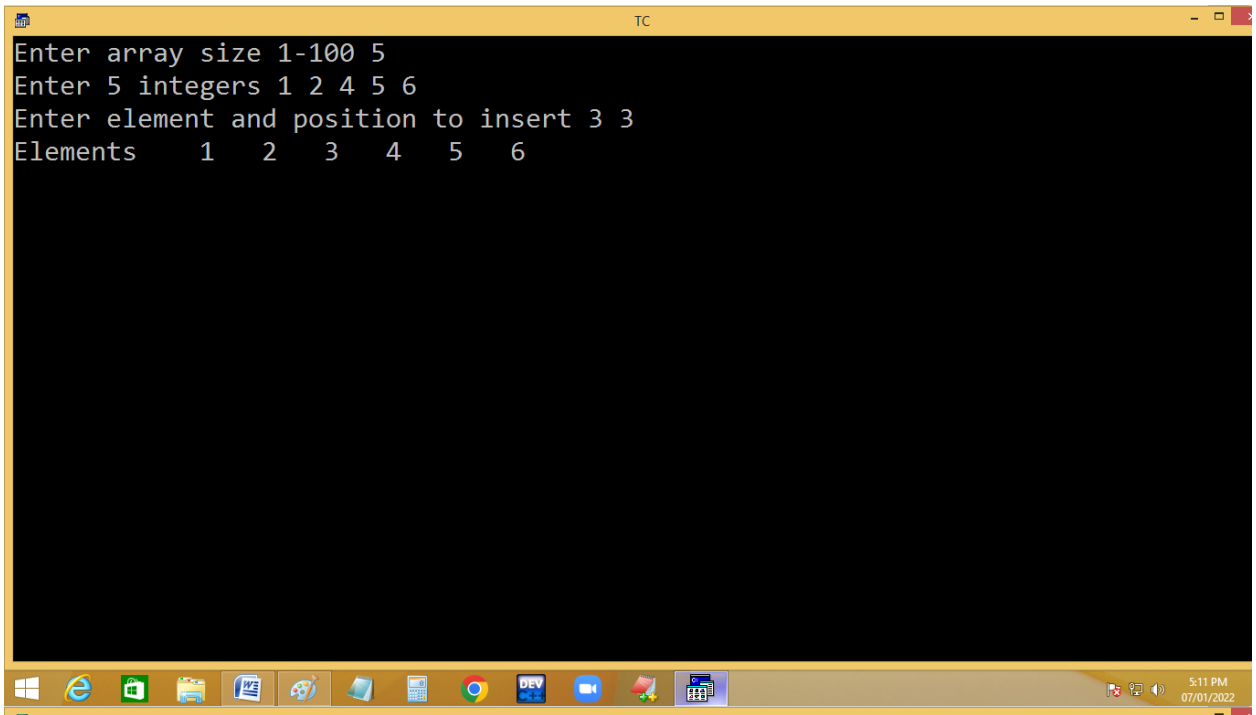


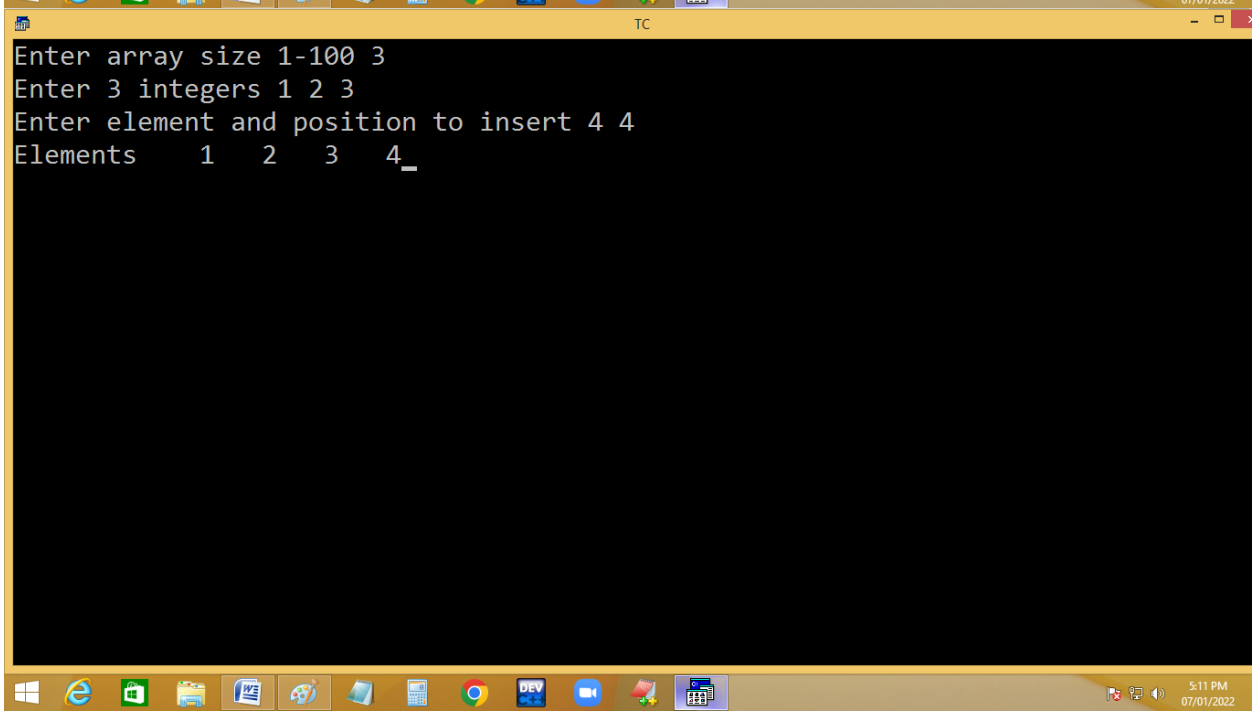
Eg. read n elements into array and insert a new element into the array at specified position.

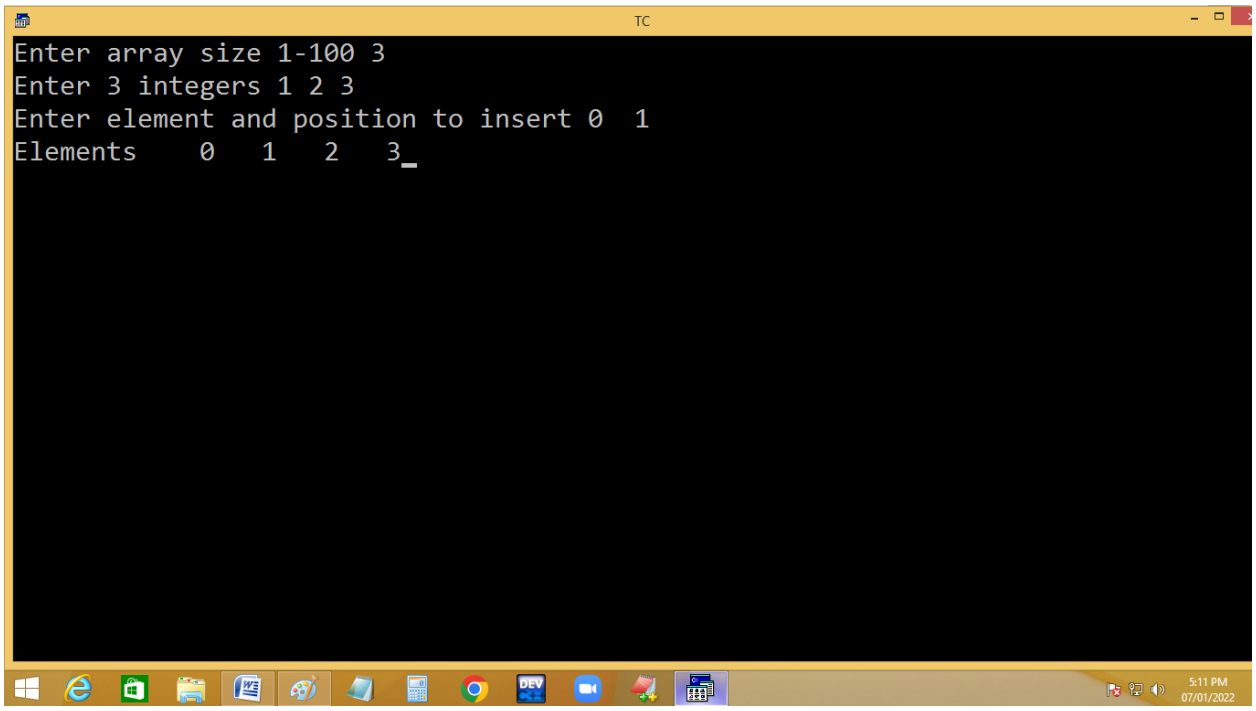


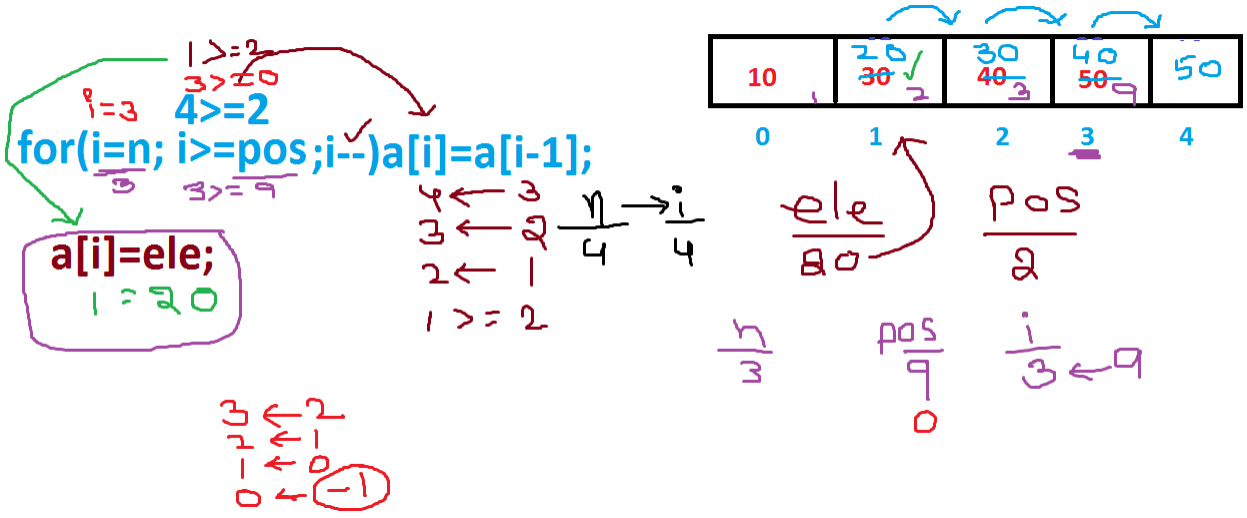

TC
Enter 3 integers 1 2 3
Enter element and position to insert 5 5
position 1 to 4 only_
5:10 PM
07/01/2022


TC
Enter array size 1-100 3
Enter 3 integers 1 2 3
Enter element and position to insert 0 0
position 1 to 4 only
5:10 PM
07/01/2022


TC
Enter array size 1-100 5
Enter 5 integers 1 2 4 5 6
Enter element and position to insert 3 3
Elements 1 2 3 4 5 6
5:11 PM
07/01/2022

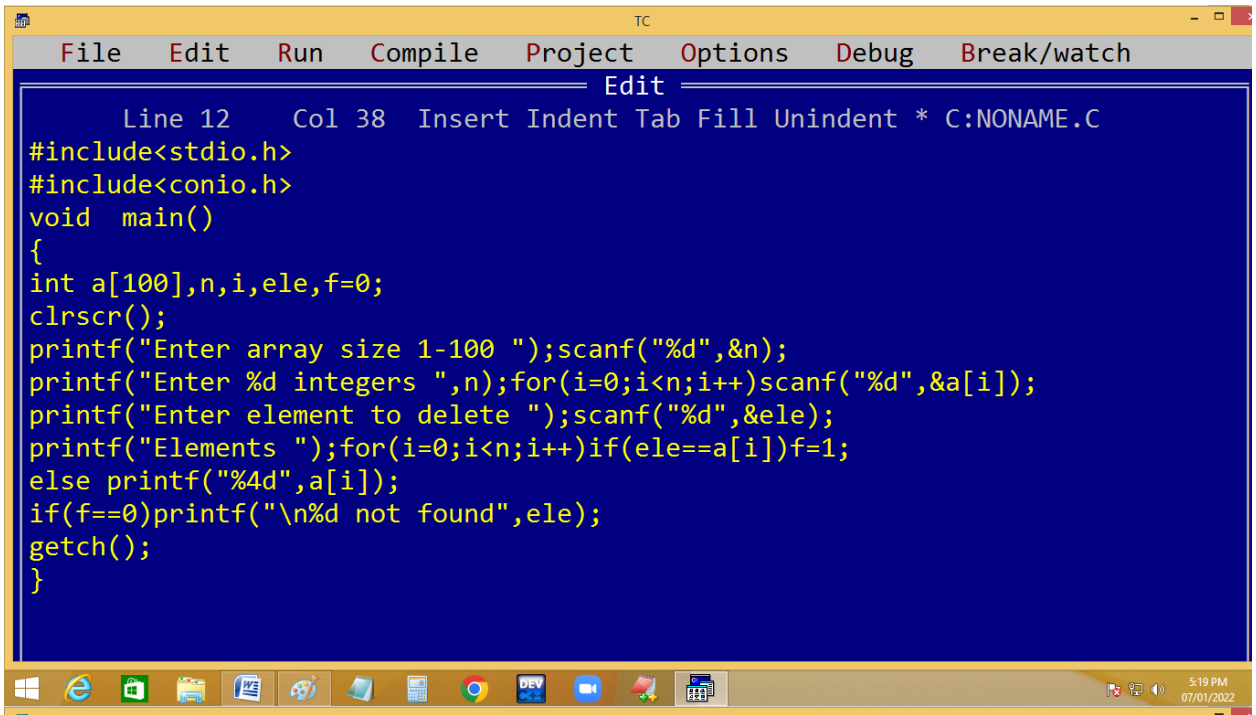

TC
Enter array size 1-100 3
Enter 3 integers 1 2 3
Enter element and position to insert 4 4
Elements 1 2 3 4
5:11 PM
07/01/2022

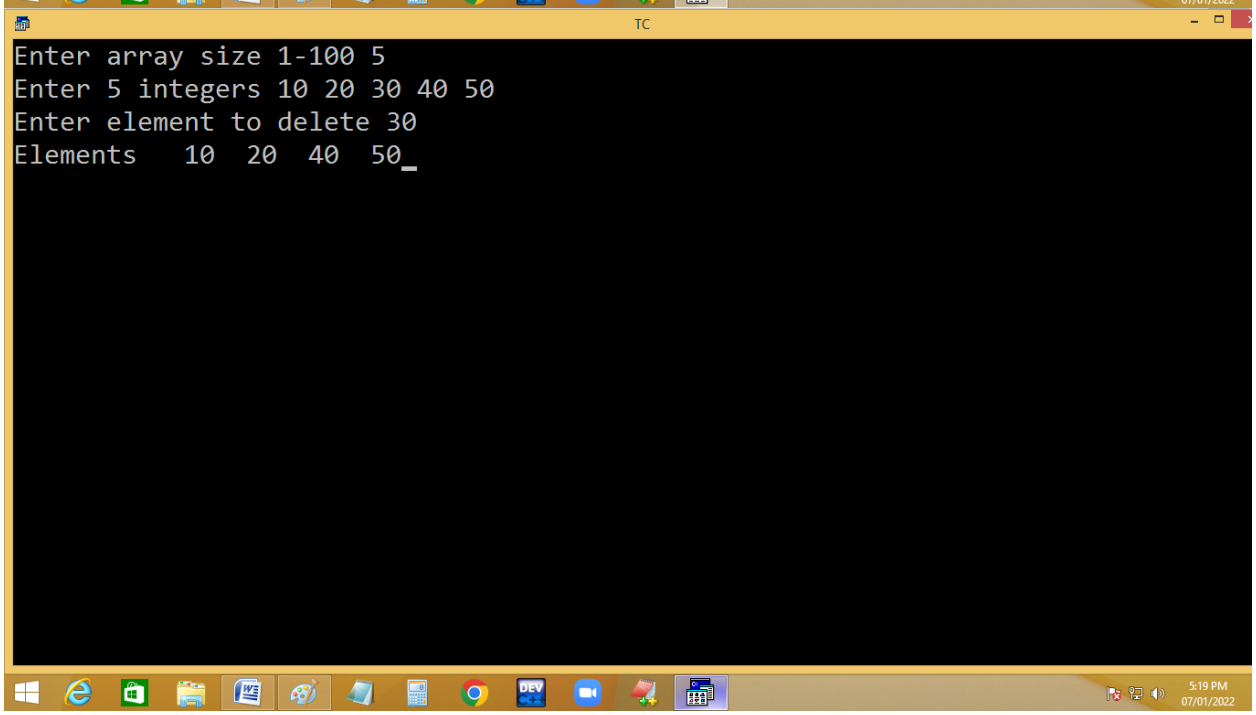


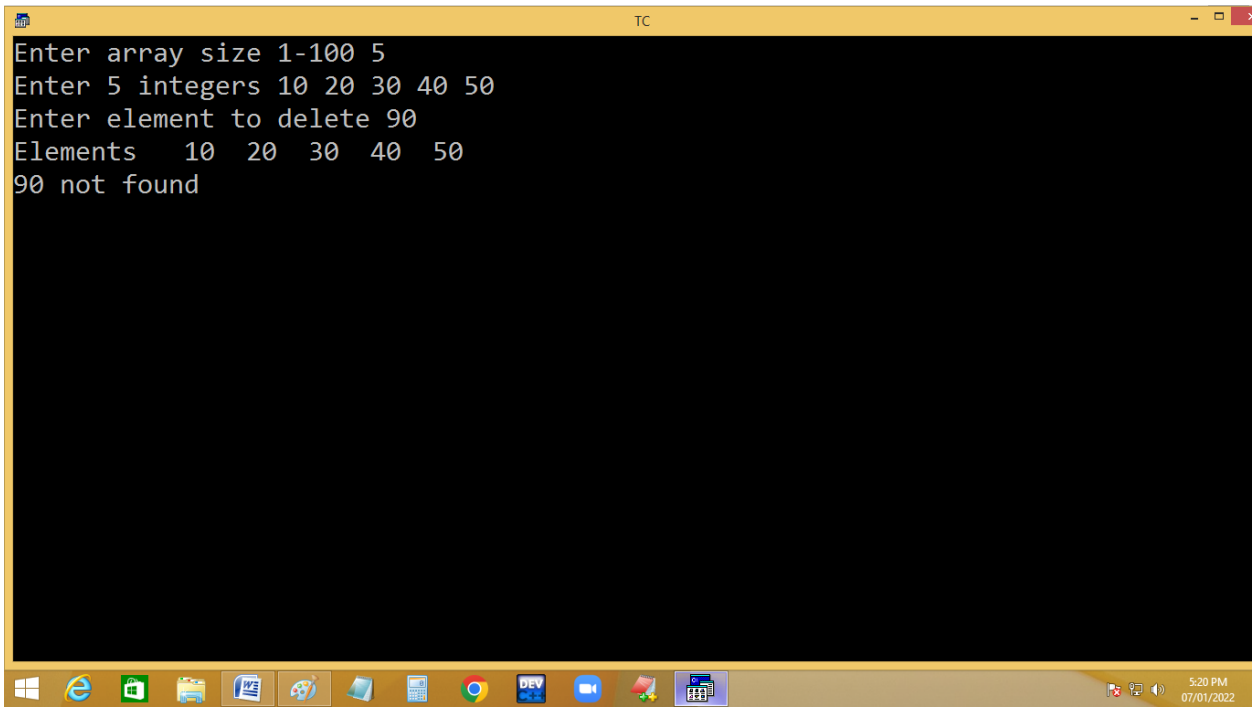


Eg. deleting specified element from array.

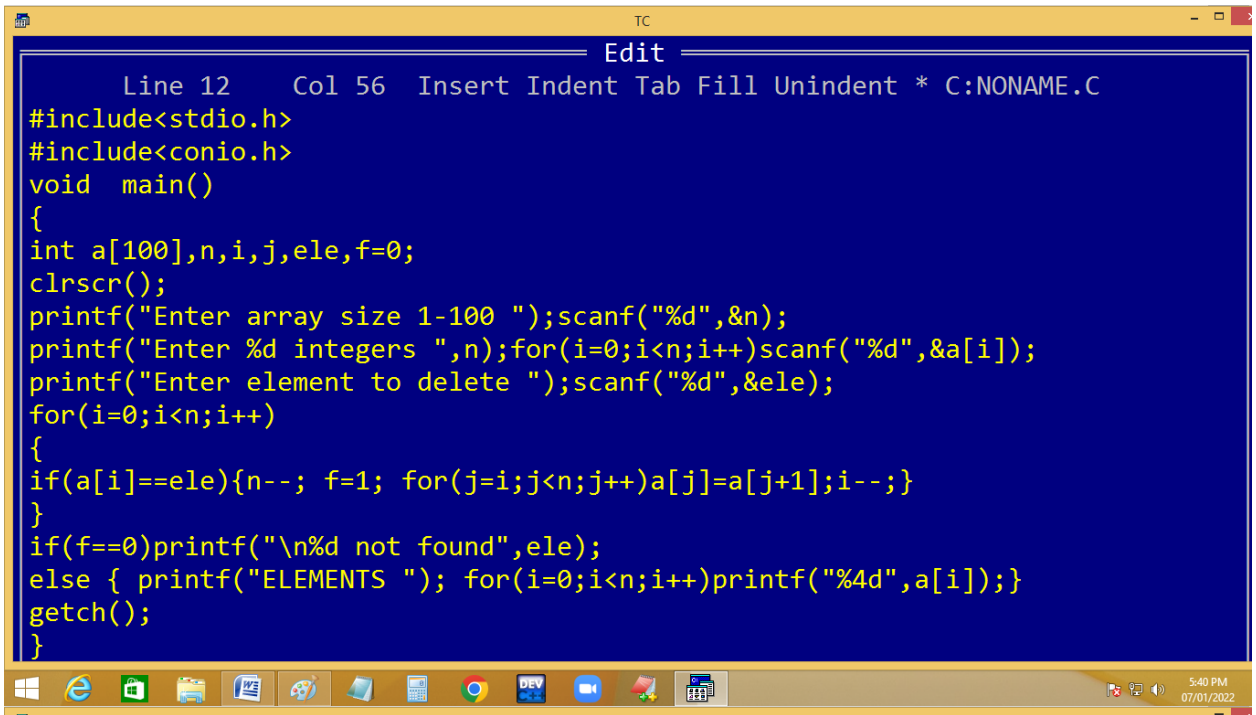
Method1: skipping that element

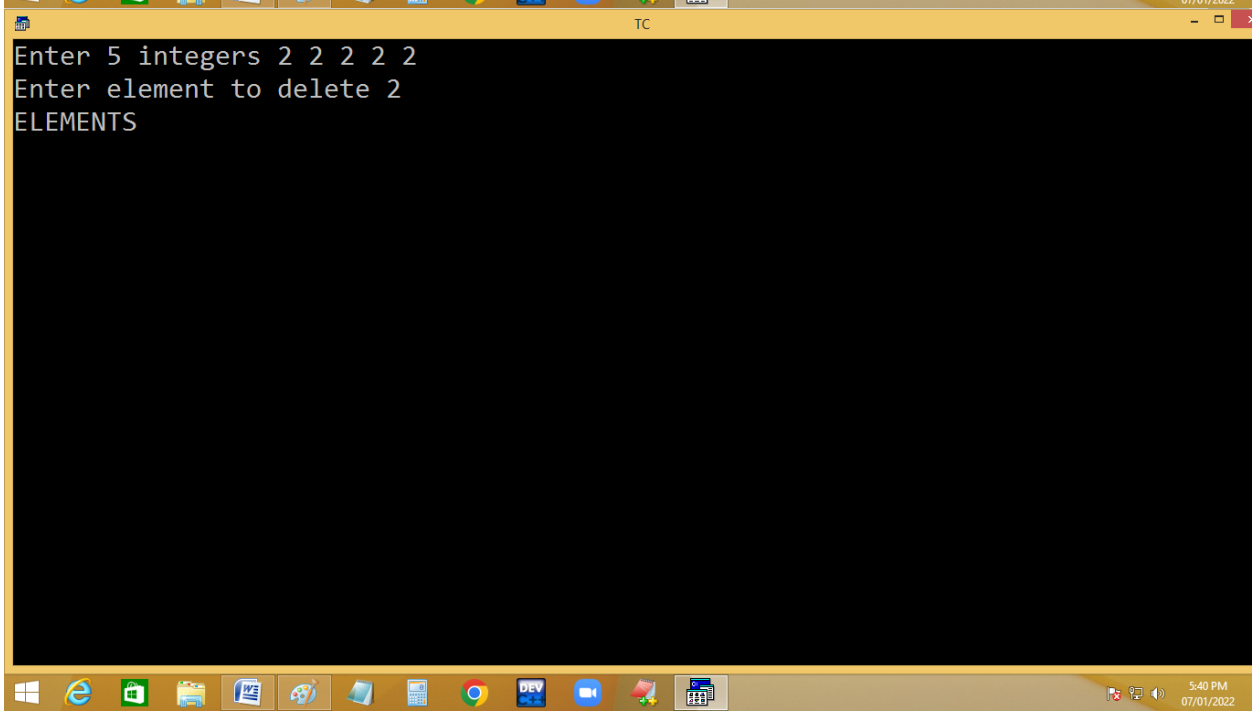

TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 12 Col 38 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,ele,f=0;
clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d integers ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);
printf("Enter element to delete ");scanf("%d",&ele);
printf("Elements ");for(i=0;i<n;i++)if(ele==a[i])f=1;
else printf("%4d",a[i]);
if(f==0)printf("\n%d not found",ele);
getch();
}

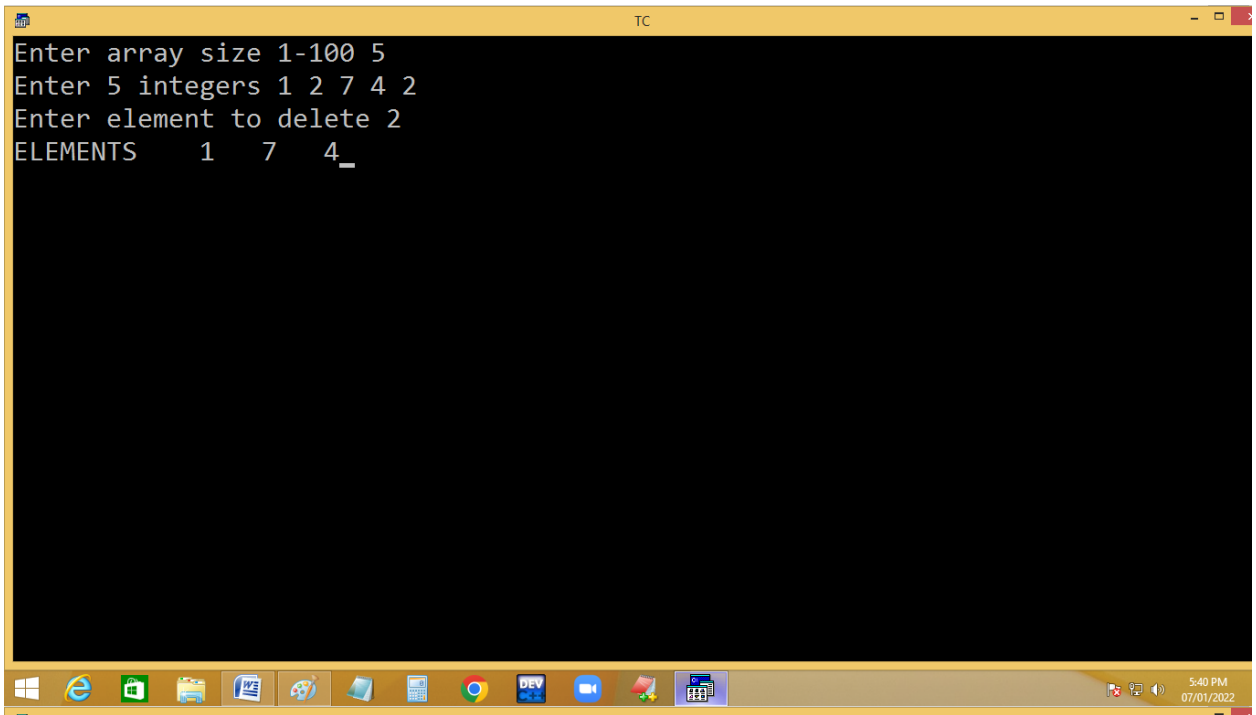

TC
Enter array size 1-100 5
Enter 5 integers 10 20 30 40 50
Enter element to delete 30
Elements 10 20 40 50

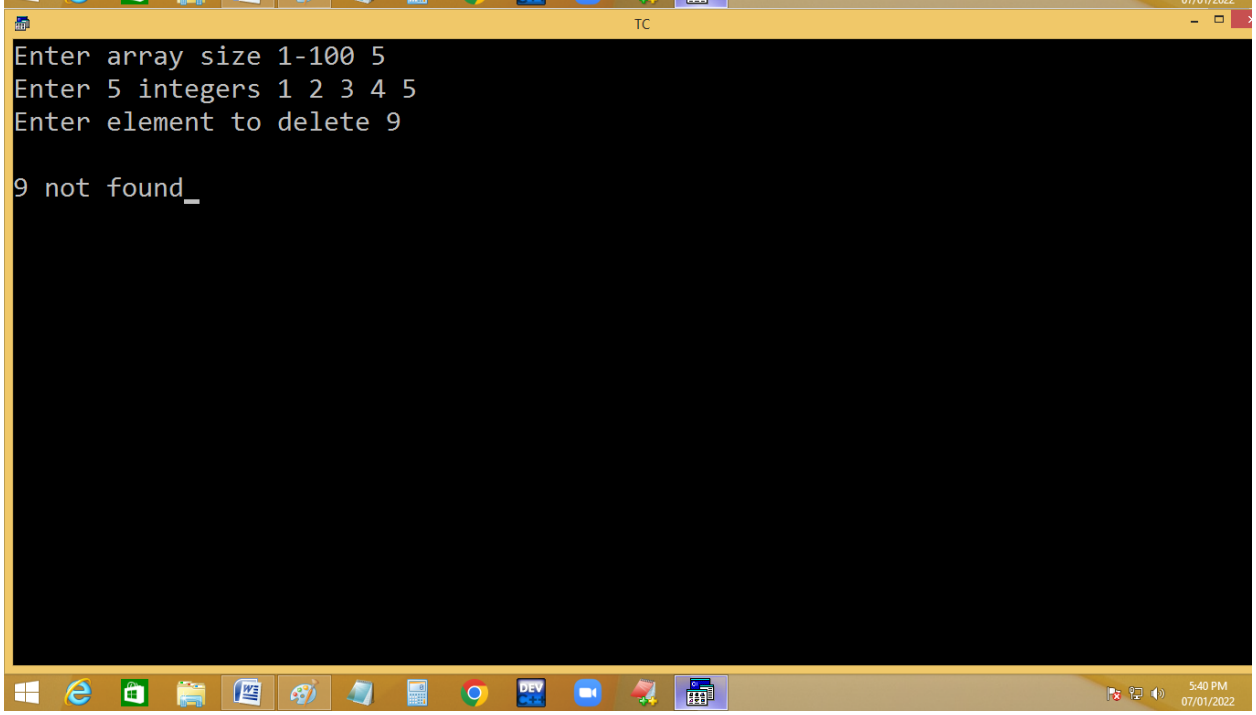


Method2: Deleting the element permanently

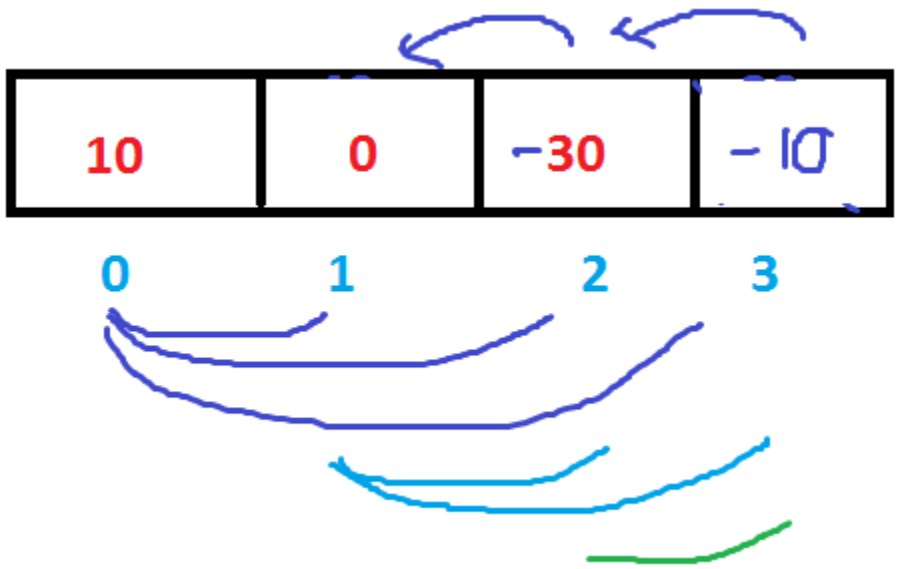

TC
Edit
Line 12 Col 56 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,j,ele,f=0;
clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d integers ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);
printf("Enter element to delete ");scanf("%d",&ele);
for(i=0;i<n;i++)
{
if(a[i]==ele){n--; f=1; for(j=i;j<n;j++)a[j]=a[j+1];i--;}
}
if(f==0)printf("\n%d not found",ele);
else { printf("ELEMENTS "); for(i=0;i<n;i++)printf("%4d",a[i]);}
getch();
}


TC
Enter 5 integers 2 2 2 2 2
Enter element to delete 2
ELEMENTS





Eg. arrange array elements in ascending order using selection sort.


10
0
-30
-10
0
1
2
3