Coding C

Auto saved at 10:59:38

RUN MENU

```c
//bubble sort
#include<stdio.h>
int main()
{
int n,i,j,a[10],temp;
printf("\n enter the number of element");
scanf("%d",&n);
printf("enter the array elements\n");
for(i=0;i<n;i++)
{
scanf("%d",&a[i]);
}
printf("original elements are \n");
for(i=0;i<n;i++)
{
printf("%d\t",a[i]);
}
for(i=0;i<n-1;i++)
{
for(j=0;j<n-1-i;j++)
{
if(a[j]>a[j+1])
{
temp=a[j];
a[j]=a[j+1];
a[j+1]=temp;
}
}
}
printf("\n the stored elements are \n");
for(i=0;i<n;i++)
printf("%d\n",a[i]);
return 0;
}
```

Compile Result

```
 enter the number of element5
enter the array elements
23 4 6 12 40
original elements are
23      4       6       12      40
 the stored elements are
4
6
12
23
40

[Process completed - press Enter]
```

Compile Result

```
 enter the number of element4
enter the array elements
-3 -9 12 6
original elements are
-3       -9       12       6
 the stored elements are
-9
-3
6
12

[Process completed - press Enter]
```

Coding C

Auto saved at 07:52:59

RUN MENU

```c
//binary search
#include<stdio.h>
#include<string.h>
int main()
{
int a[10],key;
int n,i,low,high,mid,found=0;
printf("enter the number of numbers to read\n"
scanf("%d",&n);
printf("enter the numbers in ascending order\n
for(i=0;i<n;i++)
scanf("%d",&a[i]);
printf("enter the number to search\n");
scanf("%d",&key);
low=0;
high=n-1;
while(low<=high&&found!=1)
{
mid=(low+high)/2;
if(a[mid]==key)
found=1;
else if(a[mid]<key)
low=mid+1;
else
high=mid-1;
}
if(found==1)
printf("\n number found at position:%d",mid+1
else
printf("\n number not found");
return 0;
}
```

Compile Result

```
enter the number of numbers to read
5
enter the numbers in ascending order
10 20 30 40 50
enter the number to search
5

 number not found
[Process completed - press Enter]
```