

linear_searching

```
#include<stdio.h>
int linsearch(int x[],int n,int key)
{
int i;
for(i=0;i<n;i++)
{
if(x[i]==key)
return i;
}
return -1; // element not found
}

void main()
{
int x[10],i,n,key,k;
printf("\nHow Many Values:");
scanf("%d",&n);
printf("\nEnter Actual Values:\n");
for(i=0;i<n;i++)
{
scanf("%d",&x[i]);
}
printf("\nEnter Values To Be Searched:\n");
scanf("%d",&key);
k=linsearch(x,n,key);
if(k!=-1);
printf("\nThe Element Is Found At Location:%d\n",k);
}
/*
```

output->

How Many Values: 5
Enter Actual values : 12

44
76
89
22

Enter Value to be Searched: 76

The Element is Found at location :2

*/