

Linear search

```
void linearsearch(int a[], int x, int n)
{
    int flag=0;
    for(i=0;i<n;i++)
    {
        if(a[i]==x)
        {
            flag=1;
            break;
        }
    }
    if(flag==1)
        print("\n The element is found at position %d\n",i+1);
    else
        print("\nElement notfound");
}
```

Binary Search

```
void binarysearch( int a[], int x, int n)
{
    low=0;
    high=n-1;
    mid= (low+high)/2;
    while(low<high && a[mid]!=x)
    {
        if(x<a[mid])
            high=mid-1;
        if(x>a[mid])
            low=mid+1;
        mid=(low+high)/2;
    }
    if(a[mid]==x)
        print("Element found at position %d",mid+1);
    else
        print("Element not found");
}
```