linear search

```
1  int search(int a[],int n, int val)
2  {
3
4     int i;
5
6     for(i=0;i<n;i++)
7        {
8           if(a[i]==val)
9  return i;
10       }
11
12    return -1;
13 }
```

binary search

```
1  int search(int a[],int n, int val)
2  {
3     int mid, low=0, high=n-1;
4
5     while(low<=high)
6        {
7           mid=(low+high)/2;
8           if(a[mid]==val)
9              return mid;
10          else if(val>a[mid])
11             low=mid+1;
12          else
13             high=mid -1;
14       }
15
16    return -1;
17 }
```

largest element

```
1  int search(int a[],int n)
2  {
3
4     int i;
5     int best_val=a[0];
6
7     for(i=1;i<n;i++)
8        {
9           if(a[i]>best_val)
10 best_val= a[i];
11       }
12
13    return best_val;
14 }
```