linear search

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

binary search

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