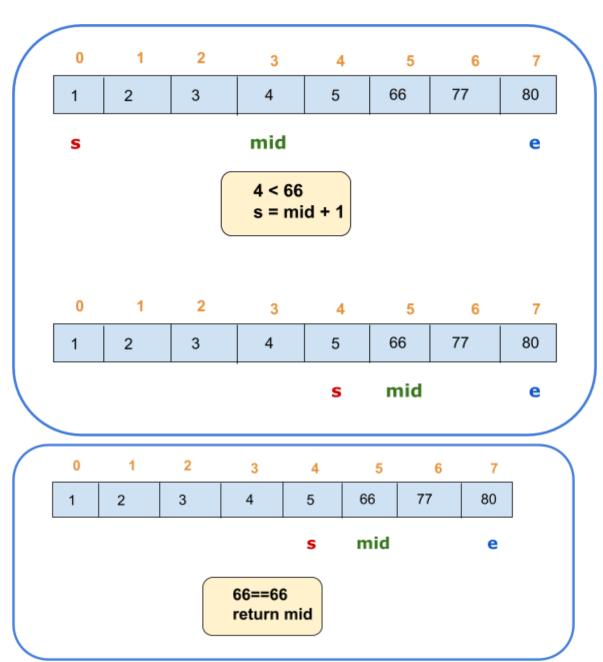
Binary Search

To perform binary search, the array should be sorted.

```
int[] arr = {1,2,3,4,5,66,77,80};
System.out.println(binarySearch(arr,66));
```



```
public static int binarySearch(int[] a, int x){
      int s = 0;
      int e = a.length;
      while (s<=e) {
          int mid = (s+e)/2;
          if (a[mid]>x) {
              e = mid - 1;
          }else if (a[mid]<x) {</pre>
              s = mid + 1;
          }else{
              return mid;
          }
      }
      return -1;
  }
  public static void main(String[] args) {
      int[] arr = {1,2,3,4,5,66,77,80};
      System.out.println(binarySearch(arr,66));
      //output: 5
  }
```