```
JS binarysearch.js > ...
      function binarySearch(array,item)
           let left=0;
           let right=array.length-1;
           while(left<=right){
  6
               let mid=Math.floor((left+right)/2)
               if(array[mid]===item){
  8
                   return mid;
  9
 10
               if(array[mid]<=item){</pre>
 11
 12
                   left=mid+1;
 13
 14
               else{
                   right=mid-1;
 15
 16
  17
  18
  19
           return -1;
  20
  21
       let array=[10,20,30,40,50,60,70,80,90]
       item=70;
       let index=binarySearch(array,item);
       document.write("Index of item 70 is: "+index);
```





```
Algorithm
Step 1: Start
Step 2: Initialize Array, take input left=0, right=array.length-1, item
Step 3: Decision making (left<=right)
Step 4: Set value of mid=Math.floor((left+right)/2)
Step 5: Decision making (array[mid]===item)
        print value of mid
        perform step 8
Step 6: Decision making (array[mid]<=item)
        left=mid+1
```

Step 7: right=mid-1

Step 8: Stop

