

Key = 77.

[0]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
11	22	33	44	55	66	77	88	99

left   left Subarray   mid   Right Subarray   Right

① Get the key.

② left = 0  
Right = 8  
 $mid = \frac{(l+r)}{2}$   
mid = 4.

~~LSA~~

[0]	[1]	[2]	[3]
11	22	33	44

RSA :

[5]	[6]	[7]	[8]
66	77	88	99

left mid   Right

★ 77 == 77.

key found at index 6.

③ Compare the key with element at mid.  
77 == 55. ★  
if not matching, go to step 4.

④ Check if key is smaller or greater to mid element.

if key is smaller, continue the search in left sub array.  
else, search in right sub array.