

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

left (under [0])      mid (under [4])      mid Left (over [7])      Right (over [8])  
 Left (under [5])      mid (under [6])      Right (under [7])

- 1) key = 99.
- 2) Left = 0  
Right = 8  
mid = 4.
- 3) If (99 == 55)  
no,  
go to step 4.
- 4) As 99 is greater  
we will search in RSA.

RSA.

② L - 5  
R - 8  
m - 6.

③ If (key == arr[mid])  
(99 == 77) no.

④ As 99 is greater, continue in RSA.

RSA

② Left - 7  
Right - 8  
mid - 7.

③ If (99 == 88)  
no.

④ Continue in RSA.

RSA.

② Left - m + 1 = 7 + 1 = 8.  
Right - 8.  
mid - 8.

③ If (99 == arr[mid])  
99 == 99 yes.  
Key found at index 8.