

Use the binary search algorithm to find 99 in the following list.

7, 21, 52, 59, 68, 92, 94, 99, 133

7 21 52 59 68 92 94 99 133  
1st middle Last

$$68 \neq 99$$

$68 < 99$  so discard first half of list.

92 94 99 133  
1st middle Last

$$94 \neq 99$$

$94 < 99$  so discard first half of list

99 133  
1st middle Last

$99 = 99$  Item Found.