

二分查找 (Binary Search)



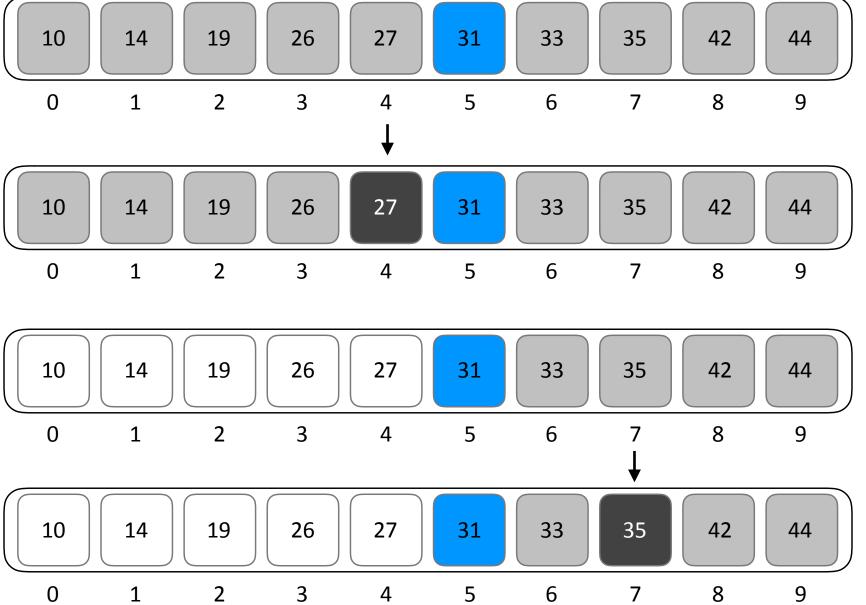
本节内容

- 1. Sorted (单调递增或者递减)
- 2. Bounded (存在上下界)
- 3. Accessible by index(能够通过索引访问)

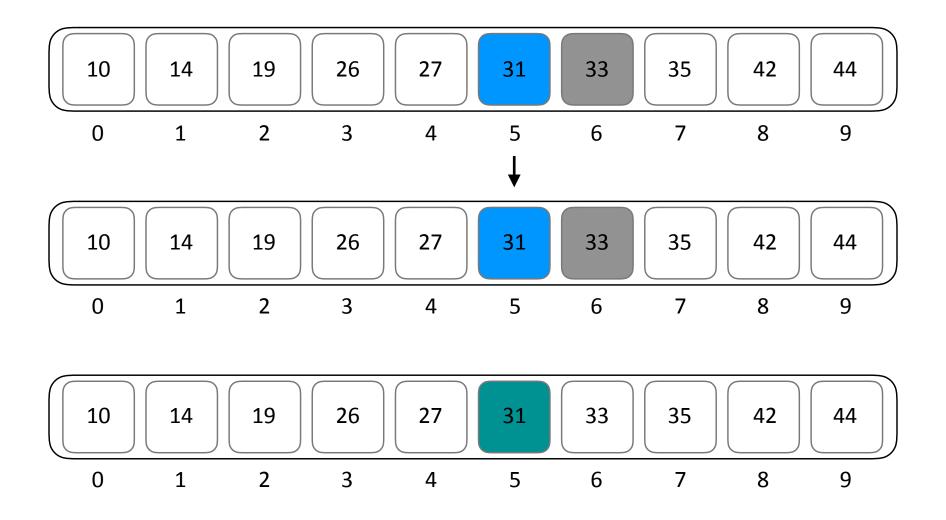


```
left, right = 0, len(array) - 1
while left <= right:
    mid = (left + right) / 2
    if array[mid] == target:
        // find the target!!
        break or return result
    elif array[mid] < target:</pre>
        left = mid + 1
    else:
        right = mid - 1
```











```
left, right = 0, len(array) - 1
while left <= right:</pre>
    mid = left + (right - left)/2
    if array[mid] == target:
        # find the target!!
        break or return result
    elif array[mid] < target:</pre>
        left = mid + 1
    else:
        right = mid -1
```



实战题目

- 1. https://leetcode.com/problems/sqrtx/
- 2. https://leetcode.com/problems/valid-perfect-square/

https://www.beyond3d.com/content/articles/8/ (扩展阅读)