## Quiz

It's quiz time! Test yourself by solving these questions about binary search.

Binary search is only applicable in case of sorted lists.
O A) True
O B) False
What is the worst-case time complexity of the recursive approach of a binary search?
$\bigcirc$ A) $O(logn)$
$\bigcirc$ B) $O(n)$
$\bigcirc$ C) $O(nlogn)$
$\bigcirc$ D) $_{O(2n)}$

What is the worst-case time complexity of the iterative approach of a binary search?
$\bigcirc$ A) $O(logn)$
$\bigcirc$ B) $O(n)$
$\bigcirc$ C) $O(nlogn)$
$\bigcirc$ D) $_{O(2n)}$
Binary search works by comparing the target element with the values on the first and the last index of a list.
O A) True
O B) False
What is the output of the following code?  def binary_search_recursive(data, target, low, high):     if low > high:         return False

```
mid = (low + high) // 2
    if target < data[mid]:

        return binary_search_recursive(data, target, low,
mid-1)
    else:
        return binary_search_recursive(data, target, mid+1
, high)
data = [2,4,5,7,8,9]
target = 2
print(binary_search_recursive(data, target, 0, 5))</pre>
```

- O A) 2
- O B) True
- C) False
- O) No output

**CHECK ANSWERS**