

Quizlet 6

For the given code:

```
# lst is a list, n = len(lst)
1. def example(lst, target):
2.     print(binarySearch(lst, target))
3.     sum = 0
4.     x = len(lst)
5.     for i in range(5, x, 10):
6.         if target in lst:
7.             sum = sum + i
8.     return sum
```

What is the runtime of each of the following lines of code?

Line 2: $O(\log n)$

Line 3: $O(1)$

Line 4: $O(1)$

Line 5: $O(n)$

Line 6: $O(n)$

Line 7: $O(1)$

Line 8: $O(1)$

What is the total runtime of the function example in Big-O notation?

Total: $O(n^2)$

Quizlet 6

For the given code: <pre># lst is a list, n = len(lst) 1. def example(lst, target): 2. print(binarySearch(lst, target)) 3. sum = 0 4. x = len(lst) 5. for i in range(5, x, 10): 6. if target in lst: 7. sum = sum + i 8. return sum</pre>	What is the runtime of each of the following lines of code? Line 2: $O(\log n)$ Line 3: $O(1)$ Line 4: $O(1)$ Line 5: $O(n)$ Line 6: $O(n)$ Line 7: $O(1)$ Line 8: $O(1)$ What is the total runtime of the function example in Big-O notation? Total: $O(n^2)$
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