

**MITx:** 6.00.1x Introduction to Computer Science and Programming Using Python

Help

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## Problem 5

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## Problem 5

0/1 point (graded)

You have 2 attempts for this problem.

Here is code for linear search that uses the fact that a set of elements is sorted in increasing order:

```
def search(L, e):
for i in range(len(L)):
    if L[i] == e:
        return True
    if L[i] > e:
        return False
return False
```

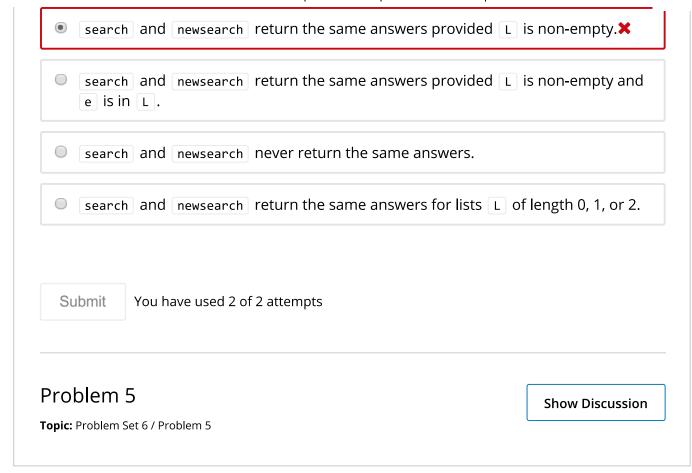
Consider the following code, which is an alternative version of search.

```
def newsearch(L, e):
size = len(L)
for i in range(size):
    if L[size-i-1] == e:
        return True
    if L[i] < e:
        return False
return False</pre>
```

Which of the following statements is correct? You may assume that each function is tested with a list  $\[ \]$  whose elements are sorted in increasing order; for simplicity, assume  $\[ \]$  is a list of positive integers.

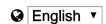
```
search and newsearch return the same answers for all L and e.
```





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