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Help

PROBLEM 5 (5/5 points)

You have 2 attempts for this problem.

In lecture, we saw a version of linear search that used the fact that a set of elements is sorted in increasing order. Here is the code from lecture:

```
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
```

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

- ○ `search` and `newsearch` return the same answers for all `L` and `e`.
- ○ `search` and `newsearch` return the same answers provided `L` is non-empty.
- ○ `search` and `newsearch` return the same answers provided `L` is non-empty and `e` is in `L`.
- ○ `search` and `newsearch` never return the same answers.
- ● `search` and `newsearch` return the same answers for lists `L` of length 0, 1, or 2. ✔

You have used 2 of 2 submissions

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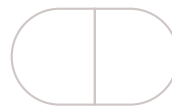
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