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Exercise 3

Finger Exercises due Aug 5, 2020 20:30 -03

Exercise 3

1/1 point (graded)

ESTIMATED TIME TO COMPLETE: 5 minutes

Here is some 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 search2(L, e):
    for i in L:
        if i == e:
            return True
        elif 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 integers.



☒ `search` and `search2` return the same answers.

☐ `search` and `search2` return the same answers provided `L` is non-empty.

☐ `search` and `search2` return the same answers provided `L` is non-empty and `e` is in `L`.

☐ `search` and `search2` do not return the same answers.

☐ `search` and `search2` return the same answers for lists of length 0 and 1 only.



Explanation:

The change from an `if` statement, in line 5 of `search1`, to an `elif` statement, in line 5 of `search2`, does not change the behavior of the function.

Enviar

i Answers are displayed within the problem

Exercise 3

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