edX

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Problem 5

Problem Set due Jul 30, 2020 20:30 -03   *Completo*

Problem 5

1/1 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
```

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.

○ `search` and `newsearch` return the same answers for lists `L` of length 0 or 1.

✔

Enviar   You have used 2 of 2 attempts

Problem 5

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? [STAFF] Resolved --- I believe there is an error in the answer

I think there is an error in the answer to this question. I used up both my attempts with the same…

3 new

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3 new