**Discussion** 

<u>Help</u>

shengtatng v

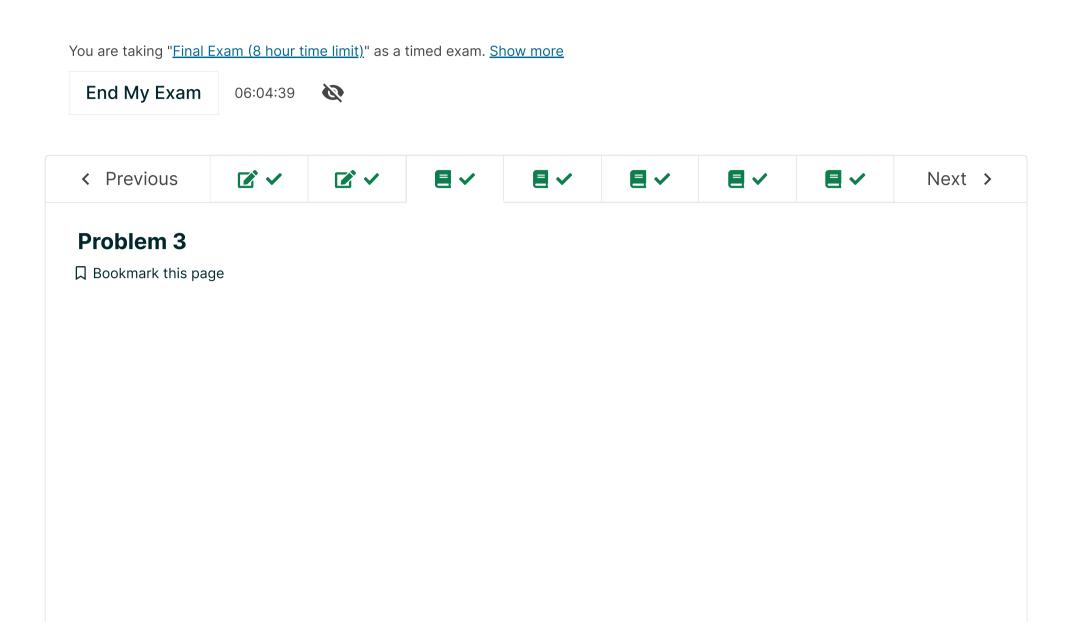
★ Course / Final Exam / Final Exam (8 hour time limit)

<u>Dates</u>

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()



<u>Notes</u>

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Final Exam due Oct 26, 2022 07:30 +08 Completed

You will not be able to see the test cases for this question. This will test your ability to come up with your own test cases.

#### Problem 3

10.0/10.0 points (graded)

Write a function <code>is\_triangular</code> that meets the specification below. A triangular number is a number obtained by the continued summation of integers starting from 1. For example, 1, 1+2, 1+2+3, 1+2+3+4, etc., corresponding to 1, 3, 6, 10, etc., are triangular numbers.

```
def is_triangular(k):
    """
    k, a positive integer
    returns True if k is triangular and False if not
    """
    #YOUR CODE HERE
```

Paste your entire function, including the definition, in the box below. Do not leave any debugging print statements.

```
1 def is_triangular(k):
      ....
3
      k, a positive integer
4
      returns True if k is triangular and False if not
5
6
      #YOUR CODE HERE
7
      count = 1
8
      breakpoint = 0
9
      while k > breakpoint:
10
        k = k - count
11
          count = count + 1
12
          # print(k)
13
      if k == breakpoint:
14
          return True
15
      else:
```

Press ESC then TAB or click outside of the code editor to exit

Correct

### Test results

CORRECT				See full	<u>output</u>
CORRECT				See full	<u>output</u>
Submit	You have used 2 of 10 at	cempts			
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