

MITx: 6.00.1x Introduction to Computer Science and Programming ...

Help



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Midterm Exam

Midterm due Feb 14, 2017 15:30 PST

Sandbox

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Problem 4

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Problem 4

10.0 points possible (graded)

Implement a function called <code>closest_power</code> that meets the specifications below.

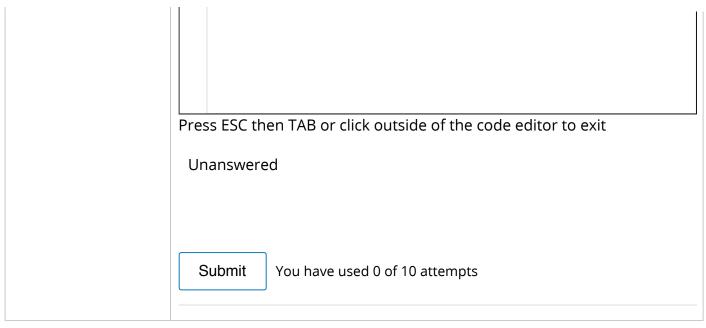
```
def closest_power(base, num):
    '''
    base: base of the exponential, integer > 1
    num: number you want to be closest to, integer > 0
    Find the integer exponent such that base**exponent is
closest to num.
    Note that the base**exponent may be either greater or
smaller than num.
    In case of a tie, return the smaller value.
    Returns the exponent.
    '''
# Your code here
```

For example,

- closest_power(3,12) returns 2
- closest_power(4,12) returns 2
- closest power(4,1) returns 0

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

1 # Paste your function here



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