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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Programming, Data Structures And Algorithms Using Python (course)



## Course outline

How does an NPTEL online course work? ()

Week 1 : Introduction ()

Week 1 Quiz ()

Week 2: Basics of Python ()

Week 2 Quiz ()

Week 2 Programming Assignment ()

Week 3: Lists, inductive

# Online Test 1 Question 1

Due on 2020-12-01, 12:00 IST

## Question 1

Here is a function `isprimebad` that takes a positive integer as input and returns True if the number is prime and False otherwise. There is an error in this function. Provide an input `n`, which is a positive integer, for which `isprimebad` produces an incorrect output.

```
import math

def isprimebad(n):
    if n < 2:
        return(False)
    else:
        for i in range(2, int(math.sqrt(n))):
            if n%i == 0:
                return(False)
        return(True)
```

Open up the code submission box below and write your test case where you would normally paste your code. Your input should be a single integer `n`.

### Sample Test Cases

Test Case 1

Test Case 2

Input

Output

True

True

**function  
definitions,  
sorting ()**

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**Week 3  
Programming  
Assignment  
()**

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**Week 4:  
Sorting,  
Tuples,  
Dictionaries,  
Passing  
Functions,  
List  
Comprehension  
()**

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**Week 4 Quiz  
()**

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**Week 4  
Programming  
Assignment  
()**

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**Week 5:  
Exception  
handling,  
input/output,  
file handling,  
string  
processing ()**

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**Week 5  
Programming  
Assignment  
()**

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**Week 6:  
Backtracking,  
scope, data  
structures;  
stacks,  
queues and  
heaps ()**

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**Week 6 Quiz  
()**

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The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

**Week 7:  
Classes,  
objects and  
user defined  
datatypes ()**

**Week 7 Quiz  
()**

**Week 8:  
Dynamic  
programming,  
wrap-up ()**

**Week 8  
Programming  
Assignment  
()**

**Text  
Transcripts ()**

**Books ()**

**Download  
Videos ()**

**Online  
Programming  
Test -  
Sample ()**

**Online  
Programming  
Test 1, 01  
Dec 2020,  
10:00-12:00  
()**

☒ **Instructions**  
(unit?  
unit=126&lesson=127)

☐ **Online Test 1  
Question 1**  
(/noc20\_cs26/progassignment?  
name=131)

☐ **Online Test 1  
Question 2**  
(/noc20\_cs26/progassignment?  
name=132)

☐ Online Test 1  
Question 3  
(/noc20\_cs26/progassignment?  
name=134)

☐ Online Test 1  
Question 4  
(/noc20\_cs26/progassignment?  
name=136)

☐ Online Test 1  
Question 5  
(/noc20\_cs26/progassignment?  
name=137)

☐ Online Test 1  
Question 6  
(/noc20\_cs26/progassignment?  
name=138)

☐ Online Test 1  
Question 7  
(/noc20\_cs26/progassignment?  
name=139)

☐ Online Test 1  
Question 8  
(/noc20\_cs26/progassignment?  
name=140)

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**Online  
Programming  
Test 2, 01  
Dec 2020,  
20:00-22:00  
()**

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**Online  
Programming  
Test 1, 09  
Mar 2021,  
10:00-12:00  
()**

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**Online  
Programming  
Test 2, 09  
Mar 2021,  
20:00-22:00  
()**

