

Syntax error

Fix the bug by encircling the part (maximum of one line) of the code snippet you wish to replace with your correction. If you want to insert a line instead, use an arrow to indicate where you want to insert your correction. Your correction is up to a line long only.

Code snippet	Expected output	Actual output
a = range(10) for b in a print(b)	0 1 2 3 4 5 6 7 8 9	File "test.py", line 2 for b in a ^ SyntaxError: invalid syntax
Correction:		

Name error

Fix the bug by encircling the part (maximum of one line) of the code snippet you wish to replace with your correction. If you want to insert a line instead, use an arrow to indicate where you want to insert your correction. Your correction is up to a line long only.

Code snippet	Expected output	Actual output
if foo: print('foo') else: print('bar')	bar	if foo: NameError: name 'foo' is not defined
Correction:		

Index error

Fix the bug by encircling the part (maximum of one line) of the code snippet you wish to replace with your correction. If you want to insert a line instead, use an arrow to indicate where you want to insert your correction. Your correction is up to a line long only.

Code snippet	Expected output	Actual output
a = ['a', 'b', 'c', 'd', 'e'] b = 0 while b <= 5: print(a[b]) b += 1	a b c d e	a b c d e Traceback (most recent call last): File "test.py", line 4, in <module> print a[b] IndexError: list index out of range
Correction:		

Infinite loop

Fix the bug by encircling the part (maximum of one line) of the code snippet you wish to replace with your correction. If you want to insert a line instead, use an arrow to indicate where you want to insert your correction. Your correction is up to a line long only.

Code snippet	Expected output	Actual output
i = 0		<infinite loop>

Commented [Christian4]: Add i += 1 in last line

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```

**Commented [Christian5]:** Replace  $b \leq 5$  with  $b > 5$

Watch variables

Fix the bug by encircling the part (maximum of one line) of the code snippet you wish to replace with your correction. If you want to insert a line instead, use an arrow to indicate where you want to insert your correction. Your correction is up to a line long only.

Code snippet	Expected output	Actual output
import numpy for a in range(10): b = numpy.random.randint(10) print(a, b) if b <= 5: print('ping') else: print('pong')	0 7 ping 1 6 ping 2 1 pong 3 2 pong 4 8 ping 5 9 ping 6 4 pong 7 3 pong 8 8 ping 9 5 pong	0 7 pong 1 6 pong 2 1 ping 3 2 ping 4 8 pong 5 9 pong 6 4 ping 7 3 ping 8 8 pong 9 5 ping
Correction:		

Hint:

randint(...)  
 randint(low, high=None, size=None)

Return random integers x such that low <= x < high.

If high is None, then 0 <= x < low.

Offline debugging

Fix the bug by encircling the part (maximum of one line) of the code snippet you wish to replace with your correction. If you want to insert a line instead, use an arrow to indicate where you want to insert your correction. Your correction is up to a line long only.

```
def dot(a, b):  
    """Compute the dot product of lists a and b  
  
    Lists a and b are 1D lists of equal length  
  
    Parameters  
    -----  
    a : list of int or float  
        first vector  
    b : list of int or float  
        second vector  
  
    Returns  
    -----  
    total : int or float  
        dot product of a and b  
  
    Examples  
    -----  
>>> a = [1, 2, 3]
```

```
>>> b = [4, 5, 6]
>>> dot(a, b)
32'''
if len(a) != len(b):
    raise ValueError("a and b must be of equal length")
total = 0
for i in len(a):
    total += a[i] * b[i]
return total
```

Correction: