



# Default Arguments ★

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Problem

Submissions

Leaderboard

In this challenge, the task is to debug the existing code to successfully execute all provided test files.

Python supports a useful concept of default argument values. For each keyword argument of a function, we can assign a default value which is going to be used as the value of said argument if the function is called without it. For example, consider the following increment function:

```
def increment_by(n, increment=1):  
    return n + increment
```

The function works like this:

```
>>> increment_by(5, 2)  
7  
>>> increment_by(4)  
5  
>>>
```

Debug the given function `print_from_stream` using the default value of one of its arguments.

The function has the following signature:

```
def print_from_stream(n, stream)
```

This function should print the first  $n$  values returned by `get_next()` method of `stream` object provided as an argument. Each of these values should be printed in a separate line.

Whenever the function is called without the `stream` argument, it should use an instance of `EvenStream` class defined in the code stubs below as the value of `stream`.

Your function will be tested on several cases by the locked template code.

## Input Format

The input is read by the provided locked code template. In the first line, there is a single integer  $q$  denoting the number of queries. Each of the following  $q$  lines contains a `stream_name` followed by integer  $n$ , and it corresponds to a single test for your function.

## Constraints

- $1 \leq q \leq 100$
- $1 \leq n \leq 10$

## Output Format

The output is produced by the provided and locked code template. For each of the queries (`stream_name`,  $n$ ), if the `stream_name` is even then `print_from_stream(n)` is called. Otherwise, if the `stream_name` is odd, then `print_from_stream(n, OddStream())` is called.

## Sample Input 0

```
3
odd 2
even 3
odd 5
```

#### Sample Output 0

```
1
3
0
2
4
1
3
5
7
9
```

#### Explanation 0

There are **3** queries in the sample.

In the first query, the function `print_from_stream(2, OddStream())` is executed, which leads to printing values **1** and **3** in separated lines as the first two non-negative odd numbers.

In the second query, the function `print_from_stream(3)` is executed, which leads to printing values **2, 4** and **6** in separated lines as the first three non-negative even numbers.

In the third query, the function `print_from_stream(5, OddStream())` is executed, which leads to printing values **1, 3, 5, 7** and **9** in separated lines as the first five non-negative odd numbers.

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Language

Python 3



```
1 class EvenStream(object):
2     def __init__(self):
3         self.current = 0
4
5     def get_next(self):
6         to_return = self.current
7         self.current += 2
8         return to_return
9
10 class OddStream(object):
11     def __init__(self):
12         self.current = 1
13
14     def get_next(self):
15         to_return = self.current
16         self.current += 2
17         return to_return
18
19 def print_from_stream(n, stream=None):
20     if stream is None:
21         stream = EvenStream()
22     for _ in range(n):
23         print(stream.get_next())
24
25
26 queries = int(input())
```

⬆️ Upload Code as File

☐ Test against custom input


Run Code

Submit Code

You have earned 30.00 points!

100/115 challenges solved.

87%





Congratulations


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Next Challenge


✔️ Test case 0


✔️ Test case 1 

✔️ Test case 2 

✔️ Test case 3 

✔️ Test case 4 

✔️ Test case 5 

✔️ Test case 6 

Compiler Message

Success

Input (stdin)

1	3
2	odd 2
3	even 3
4	odd 5

Expected Output

1	1
2	3
3	0

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