[CS 11] Prac 5d – Multiples in Range

Problem Statement

Given two integers x and y with $x \leq y$, print all integers between x and y inclusive that are divisible by u or v but not both.

Task Details

Implement a function called `divisible_by_exactly_one`:

```
def divisible_by_exactly_one(x, y, u, v):
```

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- `x` — `int`
- `y` — `int`
- `u` — `int`
- `v` — `int`

Do not return a value. Print the required output.

Restrictions

For this problem:

- Loops and lists are allowed.
- Additional functions are **disallowed**.
- Recursion is **disallowed**. (The recursion limit has been greatly reduced.)
- Comprehensions are **disallowed**.
- The following names are now allowed: `range`, `list`, `print`, `append`, `pop`, `extend`, `remove`, `sort`, `insert`, `clear`, `reverse`.
- The source code limit is 350.

Example Calls

Example 1 Function Call

```
divisible_by_exactly_one(10, 20, 3, 5)
```

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Example 1 Output

```
10
12
18
20
```

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Constraints

- The function `divisible_by_exactly_one` will be called at most 10 times.
- $-2500 \leq x \leq y \leq 2500$.
- $1 \leq u, v \leq 100$.

Scoring

- You get 120 ❤️ points if you solve all test cases.

Clarifications

Report an issue

No clarifications have been made at this time.

Submit solution [CS 11] Practice 5 ❤️

My submissions ❤️

Points: 120 (partial)
Time limit: 6.0s
Memory limit: 1G

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Problem type

Allowed languages
~~NONE~~, py3