

Pigeonhole - DCS Online Judge

oj.dcs.upd.edu.ph/problem/pigeonhole

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Points: 200 (partial)

Time limit: 4.0s

Memory limit: 1G

Author:

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Problem type

Allowed languages

NONE, py3

Problem Statement

You are putting Pokémons in your PC boxes. If you have p Pokémons and b boxes, is it always the case that some box will contain **at least** l Pokémons, no matter how you distribute them among the boxes?

Assume that a PC box can hold an infinite number of Pokémons.

Task Details

Your task is to implement a function named `pigeonhole`, which should look like this:

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```
def pigeonhole(p, b, l):
    return ...
```

Here, you only need to replace the `...` part with a **Python expression**.

The function must return a `bool` denoting the answer.

Your source code must have at most 7575 bytes.

Examples

Example 1 Function Call

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```
pigeonhole(2, 2, 1)
```

Example 1 Return Value

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```
True
```

Example 2 Function Call

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```
pigeonhole(1, 10, 2)
```

Example 2 Return Value

Copy

```
False
```

Constraints

- The function `pigeonhole` will be called at most $104 \cdot 10^4$ times.
- $1 \leq p, b, l \leq 105$ $1 \leq p, b, l \leq 10^{50}$

Scoring

Note: New tests may be added and all submissions may be rejudged at a later time. (All future tests will satisfy the constraints.)

- You get 5050 ❤ points if you solve all test cases where:
 - $b=7, l=3$
- You get 5050 ❤ points if you solve all test cases where:
 - $b=7, l=3$

- $|l| \leq 100$, $|l| \leq 100$
- You get 5050 ❤ points if you solve all test cases where:
 - $b, |l| \leq 100$, $b, l \leq 100$
- You get 5050 ❤ points if you solve all test cases.

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Clarifications

No clarifications have been made at this time.