[CS 11] Prac 3a – Bacteria

oj.dcs.upd.edu.ph/problem/cs11prac3a

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Points: 100 (partial)

Time limit: 4.0s

Memory limit: 1G

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Problem type

Allowed languages

~~NONE~~, py3

Problem Statement

On day 00, there are bb bacteria in your Petri dish.

Every subsequent day, the number of bacteria doubles.

Can you keep track of the number of bacteria for nn days?

Task Details

Your task is to implement a function called `bacteria_counts`. This function has two parameters `b` and `n` in that order, both `int`s, whose meanings are described in the problem statement. In particular, your function will be declared as follows:

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```
def bacteria_counts(b, n):
```

The function must return a `tuple` of `n` `int`s, where the element at index `i` is the number of bacteria in the Petri dish on day ii.

Restrictions

For this problem:

- Recursion is **disallowed**.
- Additional functions are **disallowed**.
- Comprehensions are allowed.
- The `range`, `min`, `max`, and `sum` symbols are allowed.
- The source code limit is 200200.

Example Calls

Example 1 Function Call

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```
bacteria_counts(3, 4)
```

Example 1 Return Value

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```
(3, 6, 12, 24)
```

Constraints

- The function `bacteria_counts` will be called at most 100100 times.
- $1 \leq n \leq 50$
- $0 \leq b \leq 10200 \leq b \leq 10^{20}$

Scoring

You get 100100 ❤️ points if you solve all test cases.
Report an issue

Clarifications

No clarifications have been made at this time.