[CS 11] Prac 1a – JaNein

oj.dcs.upd.edu.ph/problem/cs11prac1a

Problem Statement

JaNein likes the number nine.

Please help JaNein enumerate all integers divisible by 99 that are at least aa and at most bb.

Task Details

Your task is to implement a function called `div_by_9_between`. This function has two parameters `a` and `b` in that order, both `int`s, whose meanings are described in the problem statement. In particular, your function will be declared as follows:

Copy

```
def div_by_9_between(a, b):
```

The function must return a `tuple` whose elements are `int`s. It must return the sequence of integers divisible by 99 that are at least aa and at most bb **in increasing order**.

Restrictions

For this problem:

- Assignment is allowed.
- Recursion is allowed.
- Up to 66 function definitions are allowed.
- Comprehensions are **disallowed**.
- `range` is **disallowed**.
- The `abs` symbol is now allowed.
- The source code limit is 10001000.

The main idea is that you should implement the required functions yourself using conditionals, function composition, recursion, and basic operations.

Example Calls

Example 1 Function Call

Copy

```
div_by_9_between(25, 50)
```

Example 1 Return Value

Copy

```
(27, 36, 45)
```

Example 2 Function Call

Copy

```
div_by_9_between(27, 45)
```

Example 2 Return Value

Copy

```
(27, 36, 45)
```

Example 3 Function Call

Copy

```
div_by_9_between(91, 98)
```

Example 3 Return Value

Copy

```
()
```

Constraints

- The function `div_by_9_between` will be called at most 1010 times.
- |a|,|b|≤1010000 | a | , | b | $\leq 10^{10000}$.

- |a−b|≤100 | $a - b$ | ≤ 100.

Scoring

- You get 5050 ❤️ points if you solve all test cases where:
  - |a|,|b|≤10100 | a | , | b | $\leq 10^{100}$
  - a≤b$a \leq b$
- You get 5050 ❤️ points if you solve all test cases where:
  - |a|,|b|≤10100 | a | , | b | $\leq 10^{100}$
- You get 5050 ❤️ points if you solve all test cases where:
  - a≤b$a \leq b$
- You get 5050 ❤️ points if you solve all test cases.

Report an issue

Clarifications

No clarifications have been made at this time.