

[CS 11] Prac 2b – Triangular Numbers

oj.dcs.upd.edu.ph/problem/cs11prac2b

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Points: 100 (partial)

Time limit: 4.0s

Memory limit: 1G

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Problem type

Allowed languages

NONE, py3

Cheatsheet is available here: <https://oj.dcs.upd.edu.ph/cs11cheatsheet/>

Problem Statement

The n th triangular number has formula $n(n+1)/2n$ ($n + 1$) / 2.

Given a sequence of integers, find the triangular numbers with those indices.

Task Details

Implement a function called `triangular_numbers`:

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```
def triangular_numbers(nums):
```

- `nums`—tuple of ints

Return a tuple of ints.

Restrictions

(See 2a for more restrictions)

For this problem:

- Up to 11 function definition is allowed.
- Recursion is **disallowed**. (The recursion limit has been greatly reduced.)
- Comprehensions are allowed.
- `range` is allowed.
- The source code limit is 500500.

Example Calls

Example 1 Function Call

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```
triangular_numbers((3, 1, 4, 1))
```

Example 1 Return Value

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```
(6, 1, 10, 1)
```

Constraints

- The function `triangular_numbers` will be called at most 1,0001,000 times.
- `nums` will have at most 4040 elements.
- Each element of `nums` has absolute value at most 102010^{20} .

Scoring

- You get 100100 ❤️ points if you solve all test cases.

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Clarifications

No clarifications have been made at this time.