[CS 11] Prac 5c – Fibonacci Numbers

Problem Statement

Given n, give me the first n Fibonacci numbers.

The Fibonacci numbers $F_0, F_1, F_2, \ldots$ are defined as: $F_0 = 0$, $F_1 = 1$, and $F_n = F_{n-1} + F_{n-2}$ for $n \geq 2$.

Task Details

Implement a function called `fibs`:

```
def fibs(n):
```

- `n` — `int`

Return a `list` of `int`s.

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

```
fibs(8)
```

Example 1 Return Value

```
[0, 1, 1, 2, 3, 5, 8, 13]
```

Constraints

- The function `fibs` will be called at most 10 times.
- $0 \leq n \leq 2{,}500$.

Scoring

- You get 80 ❤ points if you solve all test cases where:
  - $n \geq 2$.
- You get 40 ❤ points if you solve all test cases.

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

Clarifications

Report an issue

No clarifications have been made at this time.