[CS 11] Prac 5b – Basenames of Markdown Files

Problem Statement

We say a filename represents a Markdown file if its name ends with the characters "`.md`"; for example, `hello.md`. Its *basename* is the part before the `.md`, e.g., `hello`.

Given a sequence of filenames, return the sequence of basenames of those representing text files.

Task Details

Implement a function called `markdown_file_bases`:

```
def markdown_file_bases(filenames):
```

- `filenames` — `tuple` of `str`s

Return a `list` of `str`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

```
markdown_file_bases((
    'hello.md',
    'fromtheoutside.jpg',
    'lol.mdown',
    'lol.amd',
    'md.txt',
    'lol.png.md',
    'lol.png.png',
    'lol.md.md',
    'lol',
    'md.md.md',
    'md.md.lol',
    'lolo.md',
))
```

Example 1 Return Value

```
[
    'hello',
    'lol.png',
    'lol.md',
    'md.md',
    'lolo',
]
```

Constraints

- The function `markdown_file_bases` will be called at most $50{,}000$ times.
- The total length of `filenames` across all inputs will be will be at most $200{,}000$.
- `filenames` will have at most $100{,}000$ elements.
- Each filename is a nonempty string of between 1 and 18 lowercase letters or dots (`.`).

Scoring

- You get 80 ❤️ points if you solve all test cases where:
  - `filenames` will have at most $4{,}000$ elements.
  - the total length of `filenames` across all inputs will be will be at most $8{,}000$.
- You get 40 ❤️ points if you solve all test cases.

Clarifications

Report an issue

No clarifications have been made at this time.

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