

[CS 11] Prac 2m – 4-Combinations

oj.dcs.upd.edu.ph/problem/cs11prac2m

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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

Given a sequence of numbers, enumerate all of its length-4 subsequences.

Task Details

Implement a function called `subsequences4`:

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```
def subsequences4(seq):
```

- `seq`—tuple of ints

Return a `frozenset` of 4-tuples 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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```
subsequences4((3, 1, 4, 1, 5))
```

Example 1 Return Value

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```
frozenset(  
    (3, 1, 4, 1),  
    (3, 1, 4, 5),  
    (3, 1, 1, 5),  
    (3, 4, 1, 5),  
    (1, 4, 1, 5),  
)
```

Constraints

- The function `subsequences4` will be called at most 100100 times.
- `seq` will have at most 88 elements.
- Each element of `seq` 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.