



[CS 11 25.1] Lab 5b – Blockbuster

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

Problem Statement

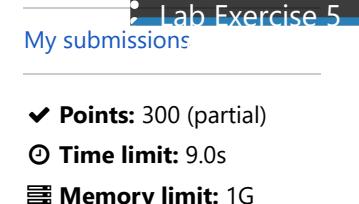
Bumhouse Productions is a film production company from a small country called Bilippines. The currency in Bilippines is the **bezo**, written as the symbol B .

Bumhouse Production have allocated a budget of between b_1 and b_2 bezos, inclusive, to fund their next great horror film.

They have received m movie proposals. The i th movie runs for r_i minutes.

There are also a insanely versatile actors who can play the lead role in any of these films. Hiring the i th actor costs h_i bezos per second.

They must select exactly one movie and exactly one actor to play the lead role in it. How many ways are there to do so such that the overall cost is within Bumhouse's allocated budget?



- ✓ Points: 300 (partial)
- ⌚ Time limit: 9.0s
- 💻 Memory limit: 1G

➤ Problem type

➤ Allowed languages

py3

Task Details

Your task is to implement a function called `movie_count`. The function takes four arguments:

- the first is a `tuple` or `list` of m `int`s representing the r_i s.
- the second is a `tuple` or `list` of a `int`s representing the h_i s.
- the third is the `int` b_1 .
- the fourth is the `int` b_2 .

The function must return an `int` denoting the answer.

Restrictions

(See 5a for more restrictions)

For this problem:

- The source code limit is 2000.

Example Calls

Example 1 Function Call

```
movie_count(  
    [90, 63, 120, 70, 150],  
    (3, 1, 4, 9, 6),  
    5_000,  
    15_000  
)
```

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Example 1 Return Value

```
5
```

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Constraints

- The function `movie_count` will be called at most 60,000 times.
- $0 \leq m \leq 250,000$
- $0 \leq a \leq 250,000$
- The sum of the ms will be at most 250,000.
- The sum of the as will be at most 250,000.
- $1 \leq b_1 \leq b_2 \leq 10^{40}$
- $1 \leq r_i, h_i \leq 10^{20}$

Scoring

Note: New tests may be added and all submissions may be rejudged at a later time. (All future tests will satisfy the constraints.)

- You get 120 ❤ points if you solve all test cases where:
 - $m \leq 50$
 - $a \leq 50$
 - The sum of the ms is at most 500.
 - The sum of the as is at most 500.

- You get 30 ❤ points if you solve all test cases where:
 - $m \leq 3,000$
 - $a \leq 3,000$
 - The sum of the ms is at most 6,000.
 - The sum of the as is at most 6,000.

- You get 150 🎲 points if you solve all test cases.

❓ Clarifications

Report an issue

No clarifications have been made at this time.