

(/problems/convert-

Difficulty:



Medium

6061. Number of Ways to Buy Pens and Pencils

My Submissions (/contest/biweekly-contest-76/problems/number-of-ways-to-buy-pens-and-pencils/submissions/)

Back to Contest (/contest/biweekly-contest-76/)

You are given an integer total indicating the amount of money you have. You are also given two integers cost1 and cost2 indicating the price of a pen and pencil respectively. You can spend **part or all** of your money to buy multiple quantities (or none) of each kind of writing utensil.

Return the number of distinct ways you can buy some number of pens and pencils.

User Accepted: 0 User Tried: 0 Total Accepted: 0 Total Submissions: 0

Example 1:

```
Input: total = 20, cost1 = 10, cost2 = 5
Output: 9
Explanation: The price of a pen is 10 and the price of a pencil is 5.
- If you buy 0 pens, you can buy 0, 1, 2, 3, or 4 pencils.
- If you buy 1 pen, you can buy 0, 1, or 2 pencils.
- If you buy 2 pens, you cannot buy any pencils.
The total number of ways to buy pens and pencils is 5 + 3 + 1 = 9.
```

Example 2:

```
Input: total = 5, cost1 = 10, cost2 = 10
Output: 1
Explanation: The price of both pens and pencils are 10, which cost more than total, so you cannot buy any writing utensils. The
```

Constraints:

• 1 <= total, cost1, cost2 <= 10^6

```
\boldsymbol{\varepsilon}
JavaScript
1 ▼ const waysToBuyPensPencils = (total, pen, pencil) => {
        let res = 0;
         for (let x = 0; x * pen <= total; x++) {
З ч
             let sum = total - x * pen;
 4
 5
             let add = parseInt(sum / pencil);
 6
             res += add + 1;
 7
 8
        return res;
    };
```

☐ Custom Testcase

Use Example Testcases



Submission Result: Accepted (/submissions/detail/681507905/) ?

More Details > (/submissions/detail/681507905/)

Share your acceptance!

Copyright © 2022 LeetCode

Help Center (/support) | Jobs (/jobs) | Bug Bounty (/bugbounty) | Online Interview (/interview/) | Students (/student) | Terms (/terms) | Privacy Policy (/privacy)

United States (/region)