Editorial A

Submissions

Triple sum ☆

Given $\bf 3$ arrays m a, m b, m c of different sizes, find the number of distinct triplets $(m p, \m q, \m r)$ where m p is an element of m a, written as $m p \in m a$, $q \in \emph{b}$, and $r \in \emph{c}$, satisfying the criteria: $p \leq q$ and $q \geq r$.

Discussions

Leaderboard

For example, given a = [3, 5, 7], b = [3, 6], and c = [4, 6, 9], we find four distinct triplets: (3, 6, 4), (3, 6, 6), (5, 6, 4), (5, 6, 6).

Problem

Complete the triplets function in the editor below. It must return the number of distinct triplets that can be formed from the given

triplets has the following parameter(s):

• a, b, c: three arrays of integers

Input Format

The first line contains 3 integers lena, lenb, and lenc, the sizes of the three arrays.

The next ${f 3}$ lines contain space-separated integers numbering ${\it lena}, {\it lenb}, {\it and lenc}$ respectively.

Constraints

 $1 \le lena, lenb, lenc \le 10^5$

 $1 \leq \text{ all elements in } a, b, c \leq 10^8$

Output Format

Print an integer representing the number of distinct triplets.

Sample Input 0

- 3 2 3
- 1 3 5
- 2 3
- 1 2 3

Sample Output 0

Explanation 0

The special triplets are (1,2,1), (1,2,2), (1,3,1), (1,3,2), (1,3,3), (3,3,1), (3,3,2), (3,3,3)

Sample Input 1

- 3 3 3
- 2 3 3
- 1 2 3

Sample Output 1

5

Explanation 1

The special triplets are (1,2,1),(1,2,2),(1,3,1),(1,3,2),(1,3,3)

Sample Input 2

- 4 3 4
- 1 3 5 7 5 7 9
- 7 9 11 13

Sample Output 2

12

Explanation 2

The special triplets are

(1,7,7), (1,9,7), (1,9,9), (3,7,7), (3,9,7), (3,9,9), (5,7,7), (5,9,7), (5,9,9), (7,7,7), (7,9,7), (7,9,9), (

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