# **Intersecting Lines**

Given N lines in 2-D plane and a range (L, R). You have to output the number of pairs of lines that intersect in the range (L, R) ( i.e their X co-ordinate of intersection lies in range (L, R) not including L, R). Since the answer may be large output the answer modulo  $(10^9+7)$ .

#### Input:

First line contain three integers N, L and R.

Next N line contain description of lines (i'th line describes i'th line), each line has three integers A, B and C. (Line is A\*x + B\*y + C = 0).

### Output:

Single integer denoting the answer modulo  $10^9+7$ .

#### Constraints:

 $0 \le N \le 10^5$ -10^8 \le L, R, A, B, C \le 10^8

Time Limit: 1 sec

Memory Limit: 256 MB

### Sample Input:

305

1 -1 0

02-4

01-1

## Sample Output:

2