H   PRACTICE   COMPETE   JOBS   LEADERBOARD   Q Search   📭 🔔² H adityakaria ∨

POKEMON EVOLVE

by failed_coder

Problem	Submissions	Leaderboard	Discussions

In mysterious world of `pokemon` , there is a pokemon known as `CryptoMat` and there are two types of stones (`water stone` and `fire stone`). CryptoMat is a legendary pokemon, it can evolve to three forms `CrytoFame` by using fire stone, `CryptoWave` using water stone and `CryptoAir` using both stones.CryptoMat(s) are located in a matrix of size m*m. Now you are given q queries and in each query you are given type of query, n and type of stone. For the type of stone 0 for fire stone and 1 for water stone. For each type of query you will be given 0 and 1 where 0 means give a stone to all the CyrptoMat in nth row and 1 means give a stone to all CryptoMat in nth column.
Print the total number CyptoMat, CryptoWave, CryptoFame and CryptoAir as given in Input Output.
Other Things to keep in mind
1) Fire + Fire = Fire
2) Water + Water = Water
3) Water + Fire + Anything = Fire + Water (CryptoAir)

Input Format

The first line of input contains m and q where size of the given matrix is m*m and q is the number of queries. Then next q lines contain 3 integer where 1st integer represents row(0) or column(1) then n where n represent the nth row or column and 3rd integer represents the type of stone 0 for fire stone and 1 for water stone

Constraints

$1 \le m \le 10^5$
$1 \le q \le 10^6$
$0 \le n \le m-1$

Output Format

Print the number of CryptoAir, CryptoWave, CryptoFame and CryptoMat seperated by a space.

Sample Input 0

```
5 4
0 1 0
0 3 1
1 2 0
1 3 1
```

Sample Output 0

```
2 7 7 9
```

Sample Input 1

```
6 5
0 0 1
0 2 0
0 4 0
1 1 0
1 3 1
```

Sample Output 1

```
3 8 13 12
```

Contest ends in 30 minutes

Submissions: 7
Max Score: 25
Difficulty: Hard

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More

Current Buffer (saved locally, editable)   C

```c
1  #include <stdio.h>
2  #include <string.h>
3  #include <math.h>
4  #include <stdlib.h>
5
6  int main() {
7
8      /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9      return 0;
10 }
11
```

Line: 1 Col: 1

Upload Code as File   ☐ Test against custom input   Run Code   Submit Code