



Prepare

Certify

Compete

Apply



Search



arjit_sharma_cs1

[All Contests](#) > [pylab01](#) > [Valentine's Numbers](#)

Valentine's Numbers

locked

Problem

Submissions

Leaderboard

Discussions

It's January end at the time of this writing, and Valentine's week is coming very soon. Personally, I believe love should be celebrated every day of the year – not just on a designated date. But that's just me.

Mr. Mandeep Singh is 27 years old and yet he had no luck in his love life so far. He has lost all hope about this. Thinking that he will never have any love in his life he started to think about love between numbers. According to him two numbers are in love with each other if their bitwise-xor and sum are equal. For example: bitwise-xor of 160 and 75 is 235 and their sum is also 235. Hence 160 and 75 are in love with each other. On the other hand the bitwise-xor of 32 and 63 is 31 but their sum is 95. Hence 32 and 63 are not lovers.

In this problem Mr. Mandeep Singh will ask you question. In each question he will give you a numbers X and Y. Your task is to find out numbers are in love or not(Valentine or not). If any of the answer doesn't exist simply print None.

Note: for bitwise-xor python use ^ symbol

Input Format

two integers in separate lines

Constraints

0

Output Format

String

Sample Input 0

```
160
75
```

Sample Output 0

```
'Valentine Match'
```

Sample Input 1

```
56
87
```

Sample Output 1

```
None
```

Sample Input 2

```
27
64
```

Sample Output 2

'Valentine Match'

f t in

Submissions: 397

Max Score: 10

Difficulty: Medium

Rate This Challenge:

☆☆☆☆☆

More

Python 3

1

Line: 1 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

Testcase 0 ✓

Testcase 1 ✓

Testcase 2 ✓

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

Input (stdin)

27
64

Your Output (stdout)

'Valentine Match'

Expected Output

'Valentine Match'