

Problem H

RSA Mistake

An *RSA* number is a positive integer n that is the product of two distinct primes. For example, $10 = 2 \cdot 5$ and $77 = 7 \cdot 11$ are *RSA* numbers whereas $7 = 7$, $9 = 3 \cdot 3$, and $105 = 3 \cdot 5 \cdot 7$ are not.

You are teaching a course that covers *RSA* cryptography. For one assignment problem, you asked students to generate *RSA* numbers. They were to submit two positive integers A, B . Ideally, these would be distinct prime numbers. But some students submitted incorrect solutions. If they were not distinct primes, partial credit can be earned if $A \cdot B$ is not an integer multiple of k^2 for any integer $k \geq 2$. If there is an integer $k \geq 2$ such that k^2 divides $A \cdot B$, then the student receives no credit.

For a pair of positive integers submitted by a student for the assignment, determine if they should receive full credit, partial credit, or no credit for this submission.

Note: In the sixth sample case below, the number $545\,528\,636\,581 \cdot 876\,571\,629\,707$ is divisible by $1\,000\,003^2$ and in the seventh sample case below, the number $431\,348\,146\,441 \cdot 3$ is divisible by $656\,771^2$.

Input

The input consists of a single line containing two integers A ($2 \leq A \leq 10^{12}$) and B ($2 \leq B \leq 10^{12}$), which are the two submitted numbers.

Output

Display if the student should receive `full credit`, `partial credit`, or `no credit` for the submitted numbers.

Sample Input 1	Sample Output 1
13 23	full credit
Sample Input 2	Sample Output 2
35 6	partial credit
Sample Input 3	Sample Output 3
4 5	no credit
Sample Input 4	Sample Output 4
17 17	no credit
Sample Input 5	Sample Output 5
15 21	no credit

Sample Input 6**Sample Output 6**

545528636581 876571629707	no credit
---------------------------	-----------

Sample Input 7**Sample Output 7**

431348146441 3	no credit
----------------	-----------