

## C. Trains

time limit per test: 2 seconds  
 memory limit per test: 256 megabytes  
 input: standard input  
 output: standard output

Vasya the programmer lives in the middle of the Programming subway branch. He has two girlfriends: Dasha and Masha, who live at the different ends of the branch, each one is unaware of the other one's existence.

When Vasya has some free time, he goes to one of his girlfriends. He descends into the subway at some time, waits the first train to come and rides on it to the end of the branch to the corresponding girl. However, the trains run with different frequencies: a train goes to Dasha's direction every  $a$  minutes, but a train goes to Masha's direction every  $b$  minutes. If two trains approach at the same time, Vasya goes toward the direction with the lower frequency of going trains, that is, to the girl, to whose directions the trains go less frequently (see the note to the third sample).

We know that the trains begin to go simultaneously before Vasya appears. That is the train schedule is such that there exists a moment of time when the two trains arrive simultaneously.

Help Vasya count to which girlfriend he will go more often.

### Input

The first line contains two integers  $a$  and  $b$  ( $a \neq b$ ,  $1 \leq a, b \leq 10^6$ ).

### Output

Print "Dasha" if Vasya will go to Dasha more frequently, "Masha" if he will go to Masha more frequently, or "Equal" if he will go to both girlfriends with the same frequency.

### Examples

input	Copy
3 7	
output	Copy
Dasha	
input	Copy
5 3	
output	Copy
Masha	
input	Copy
2 3	
output	Copy
Equal	

### Note

Let's take a look at the third sample. Let the trains start to go at the zero moment of time. It is clear that the moments of the trains' arrival will be periodic with period 6. That's why it is

### → Attention

Package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then value 800 ms will be displayed and used to determine the verdict.

### Codeforces Beta Round #73 (Div. 2 Only.)

Finished

### → Virtual participation

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Start virtual contest




### → Problem tags

implementation math number theory

\*1500

No tag edit access

### → Contest materials

- Announcement 
- Tutorial #1 
- Tutorial #2 

enough to show that if Vasya descends to the subway at a moment of time inside the interval  $(0, 6]$ , he will go to both girls equally often.

If he descends to the subway at a moment of time from 0 to 2, he leaves for Dasha on the train that arrives by the second minute.

If he descends to the subway at a moment of time from 2 to 3, he leaves for Masha on the train that arrives by the third minute.

If he descends to the subway at a moment of time from 3 to 4, he leaves for Dasha on the train that arrives by the fourth minute.

If he descends to the subway at a moment of time from 4 to 6, he waits for both trains to arrive by the sixth minute and goes to Masha as trains go less often in Masha's direction.

In sum Masha and Dasha get equal time — three minutes for each one, thus, Vasya will go to both girlfriends equally often.

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