

WHAT A CO-ACCIDENT

Ramesh and Suresh get a box full of five stars on lottery each. Since both the boxes need not have the same number of chocolates, they decide to play a game. The winner gets to have both the boxes of chocolates. They play alternatively and Suresh starts the game.

Given the number of chocolates in both the boxes, let them be c_1 and c_2 , the player takes either c_1 or c_2 number of chocolates and divide the remaining box of chocolates to two boxes (these two boxes need not have the same number of chocolates). The player who cannot make such a move loses.

Given the initial number of chocolates (c_1 and c_2) find the winner. Assume both the players play optimally.

Input

First line of input contains a number T ($1 \leq T \leq 1000$), the number of test cases. Then follows T lines each containing two space separated integers c_1 and c_2

($1 \leq c_1 \leq c_2 \leq 10000$).

Output

For each test case print "Ramesh" or "Suresh" depending on who is the winner.

Example

Input:

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2
3 1
4 5
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Output:

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Ramesh
Suresh
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