

# PLAYGAME

Hemlata and Ritu were playing a game from a number of coins. Hemlata was jealous of Ritu. She wanted to win at all cost. A stack consists of  $n$  coins. Any player can take either 1, 2 or 5 (anyone number of coins) coins from stack at a time. Both Hemlata and Ritu play their moves alternatively.

Hemlata always starts first. Both play optimally. Your job is to predict the output beforehand. A player who can't take any coin loses the game. A player can take only one of 1, 2, 5 number of coins at a time in a move.

## Input

First line contains number of testcases  $t$ .  $0 < t \leq 10^5$

An integer  $n$  denoting number of coins.  $0 \leq n \leq 10^{18}$

## Output

For each testcase print "Hemlata" if Hemlata wins, else print "Ritu" if Ritu wins (without quotes) in different lines .

## Example

### Input:

3  
1  
2  
3

### Output:

Hemlata  
Hemlata  
Ritu