

Interactive Casino

Input file: **standard input**
Output file: **standard output**
Time limit: 3 seconds
Memory limit: 512 megabytes

This is an interactive problem.

You are given 1000\$. You play a game consisting of $T = 1000$ rounds.

In each round, the jury **randomly** picks an integer b from the range $[1..m]$, where m is the amount of money you currently have. Each integer in this range has an equal probability of being chosen. You can either play this round or skip it. If you play in the round, one of the outcomes is selected with equal probability:

- You need to pay b dollars.
- Jury gives you $2b$ dollars.

If, at some point, you have more than 10 000 dollars, you win. You lose if you have 0\$ or the game ended (you played or skipped all T rounds).

Interaction Protocol

The first line contains one integer T ($T = 1000$ or $T = 5$) — the number of rounds. It is guaranteed that $T = 5$ is used only in the sample. Your solution is considered correct on the sample if you have a positive amount of money after T rounds.

Each of the T rounds starts with a command “ROUND m b ”, where m is the amount of money you currently have and b is a bet chosen by the jury for this round. You should respond with either “PLAY” or “SKIP”. Don’t forget to flush the output after each response!

If you have more than 10 000 dollars after some round, you will get the word “WIN” instead of the next round. If you lose, you will get the word “LOSE”. Your program should terminate immediately after receiving “WIN” or “LOSE”.

Example

standard input	standard output
5	
ROUND 1000 43	PLAY
ROUND 957 433	SKIP
ROUND 957 525	SKIP
ROUND 957 125	PLAY
ROUND 832 685	SKIP
WIN	

Note

This problem has one sample test and 50 real test cases. Each real test case has some fixed random seed. Note that your decision to participate or not participate in the round affects how the random number generator is used, so all rounds after that will be different.