I Larry's Race

TJ IOI Inc. has chosen Larry as their corporate representative at the local track and field competition! However, the competition has a very peculiar set of rules: if Larry would like to advertise TJ IOI Inc., he must compete in the race! To get Larry in shape, Devon has built a robot to chase Larry, traveling 100 meters in T seconds ($1 \leq T \leq 100,000$).

There are N inputs to this problem ($1 \leq N \leq 100,000$). Each consists of a distance A_i that Larry runs, where A_i is a multiple of 100 ($100 \leq A_i \leq 100,000$), and the time B_i it took for him to run that distance ($1 \leq B_i \leq 100,000$), determine whether Larry could outrun Devon's robot.

Note: if Devon's robot catches Larry exactly at the finish line, Larry did not outrun it.

SHORT NAME: `race`

INPUT FORMAT:
The first line consists of two integers, N and T. The next N lines each contain an integer A_i representing a distance in meters (A_i is a multiple of 100), and a time B_i representing the time it took Larry to run that distance in seconds.

OUTPUT FORMAT:
For each input, if Larry outran Devon's robot, output "SPEEDRACER" (without quotes). Otherwise, output "POTATO" (without quotes).

SAMPLE INPUT:

```
3 22
1600 352
800 150
3200 840
```

SAMPLE OUTPUT:

```
POTATO
SPEEDRACER
POTATO
```