PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   STANDINGS   CUSTOM INVOCATION

D. Run-Scooby !!

time limit per test: 0.5 s.

memory limit per test: 64 MB

input: standard input

output: standard output

$Scooby - Doo$ and his best friend $Shaggy$ are stuck in a building with a Scary ghost and want to get out of this building Without that ghost seeing them

(The ghost can see them if he's on the same floor with one of them at the same time)

The building is represented by a Matrix of size $(N \times N)$ Each row of this matrix represents a floor of that building

Your task is to find out if $Scooby - Doo$ and his friend $Shaggy$ can escape from the exit door without the ghost seeing them.

Input
The first line contains one integer N $(3 \le N \le 50)$ represents the Size of The Matrix. The next N lines each contains characters — the j-th character of the i-th line denotes the content of the cell at row i and column j, and is either one of these:

. The ghost is in the cell represented by the letter G.

. Shaggy is in the cell, represented by the letter H.

. Scooby-Doo is in the box represented by the letter S.

. The Exit door is represented by a the letter E.

. Empty cell represented by the symbol $*$.

Output
If Scooby and Shaggy can get out of the building safely, print "**Scooby-Dooby-Doo!**" Otherwise, print "**Ruh-roh–RAGGY!!!**"

Please **Copy the "Ruh-roh–RAGGY!!!" from the examples,not from the output section**"

Examples

input	Copy

```
4
****
**E*
*SG*
***H
```

output	Copy

```
Ruh-roh--RAGGY!!!
```

input	Copy

```
4
****
E*SH
****
***G
```

output	Copy

```
Scooby-Dooby-Doo!
```