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Hogwarts School of Witchcraft

Max. Marks: 40

PROBLEM   EDITORIAL   MY SUBMISSIONS

Hogwarts decided to set a camp in Forest of Dean.

Two houses of Hogwarts Godric Gryffindor(G) and Salazar Slytherin(S) are going to the camp.

Professor Severus Snape has the guide of every wizard, he randomly distributes the camping site to both the houses Godric Gryffindor and Salazar Slytherin.

Godric Gryffindor and Salazar Slytherin can stay together so he decided in one camping site either Gryffindor or Slytherin can stay together.

Harry Potter wants to be with his house Godric Gryffindor members, he uses Cloak of invisibility to find the maximum Gryffindor member camping site which are next to each other continuously and forming a square, he stole the camping layout and now find the group.

Help Harry to find the largest square group of Gryffindor(Not location)

Input:

Input will be a matrix of order m x n of character type.

in which G represents Gryffindor and S represents Slytherin.

Output:

Output will be a square matrix having maximum elements as G .

Constraints:

$1 <= m <= 10$

$1 <= n <= 10$

Input format:

First line contains two integer m and n for order of matrix.

Second will be the input of matrix of order with m x n

Output format:

Output will be a matrix having maximum elements as G .

?

SAMPLE INPUT

```
6 4
G G G S G G
S G G S S G
G G S G G S
S G G G S G
```

SAMPLE OUTPUT

```
G G
G G
```

Explanation

INPUT:

OUTPUT:

Matrix with maximum Gryffindor members:

Time Limit:	1.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Marks are awarded if any testcase passes.
Allowed Languages:	Bash, C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, Visual Basic

CODE EDITOR

Enter your code or Upload your code as file.   Save   Bash (GNU bash, version 4.3 ▾)

```
1  # Sample bash code
2
```

☑ Provide custom input

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