STAGE
Competitive Programming

End Stage

00D : 02H : 55M : 55S

Questions

1. Spiral Rhombus Pattern ()

Note:

- You can do multiple submissions.

- Your highest score will be considered

Spiral Rhombus Pattern

Given half-height `h`, and a string `s` output a rhombus pattern with a spiral in it formed using the characters in the string. Direction of the spiral is clockwise inward.

Input Format

The first line of input consists of an integer `t` which is the number of test cases. First line of each test case consists of two space separated integers, `h` and `l` denoting the half-height of the rhombus and length of the string respectively. Second line is the string `s`.

Output Format

For every test case, print the spiral rhombus pattern (see diagrams below).

Sample Input

```
5
3 26
abcdefghijklmnopqrstuvwxyz
4 5
12345
5 2
01
6 6
spiral
2 1
z
```

Sample Output

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```
aimke
 hlf 00D : 02H : 55M : 55S
  g
   4
  355
 24211
1315322
 25433
  144
   5
    0
   111
  00000
 1111111
000000000
 1111111
  00000
   111
    0
     l
    ass
   rlrpp
  iaiiaii
 prpprrlrr
sissisaasaa
 pllpllpll
  saasiss
   lrrpp
    aii
     r
 z
zzz
 z
```

Constraints

1 <= t <= 1000

1 <= h <= 1000

1 <= l <= 1000

Character set of `s` - 0-9a-z

Explanatory Diagrams

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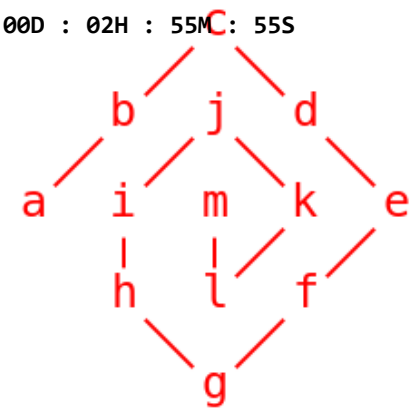

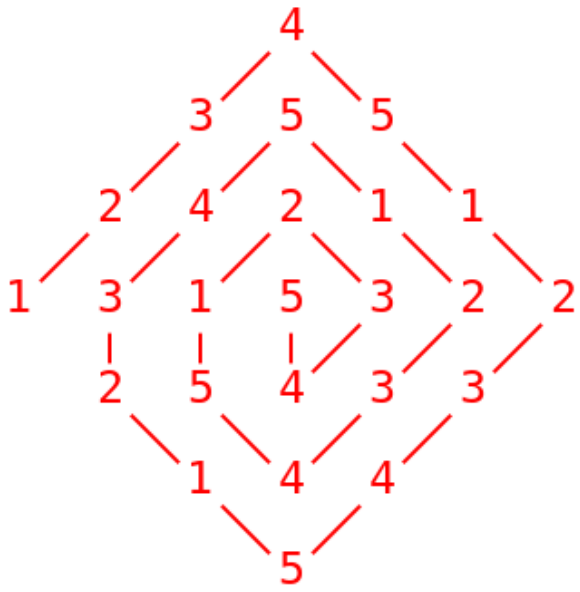

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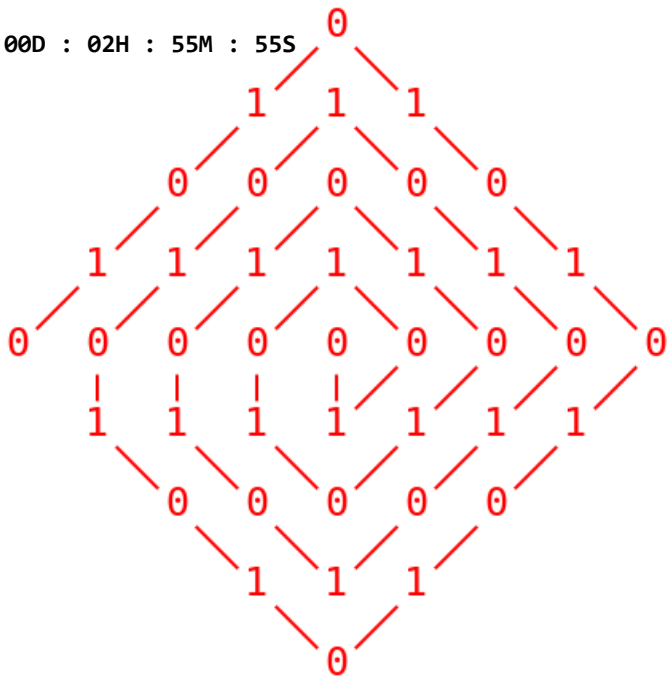

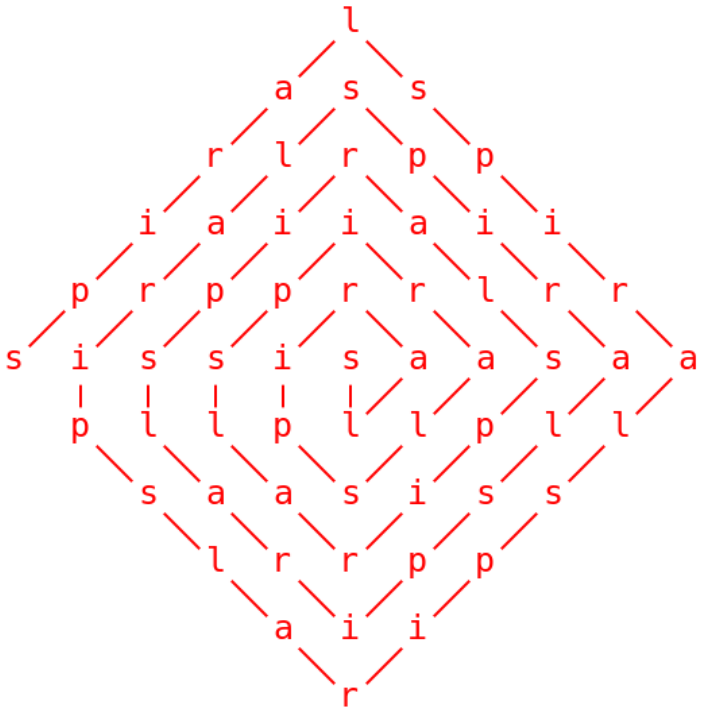

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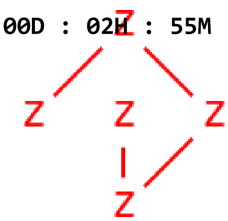

Environment

Read from STDIN and write to STDOUT.

Please check the sample programs below which print the sum of two numbers received as input

- Bash goo.gl/bMZzAh (https://goo.gl/bMZzAh)
- C goo.gl/4zRfEC (https://goo.gl/4zRfEC)
- C# goo.gl/X1Svfp (https://goo.gl/X1Svfp) (Mono JIT Compiler)
- C++ bitly.com/2Io1VND (https://bitly.com/2Io1VND)
- Clojure goo.gl/teZHzL (https://goo.gl/teZHzL)
- Go goo.gl/hWHToi (https://goo.gl/hWHToi)
- Java goo.gl/QUZhgb (https://goo.gl/QUZhgb) (Remove package declarations and keep the class name as “solution” (small case)
- JavaScript goo.gl/L3jxM6 (https://goo.gl/L3jxM6)
- Kotlin goo.gl/qTMk6v (https://goo.gl/qTMk6v)
- PHP goo.gl/p26tnC (https://goo.gl/p26tnC)
- Python goo.gl/myYeoA (https://goo.gl/myYeoA)
- Ruby goo.gl/PhpUyX (https://goo.gl/PhpUyX)
- Rust bit.ly/2I9onK8 (https://bit.ly/2I9onK8)
- Scala goo.gl/PZvMJ3 (https://goo.gl/PZvMJ3)
- Swift goo.gl/fX3kdj (https://goo.gl/fX3kdj)

Instructions

- The dashboard provides two modes.
  - Test runs your code against public/sample test cases.
  - Submit runs against private/hidden ones.
- Only public/sample test cases and their elaborate "test" results are made available. A line by line comparison with expected output is shown. There is no score for passing the public test cases. It's only for testing and debugging.
- For the private/hidden test cases, the judging system only shows the exit code, passed status, time consumption, memory consumption and score. We expect users to take cues from these values. Only making a "submit" will yield a score. Total score is a normalized weighted score over all test cases.
- If the code reaches execution time limit and it still running, it is terminated and a timeout is declared.
- Use the help button

SAMPLE STDIN 1 (https://cdn.skillenza.com/files/dd3d86b

SAMPLE STDOUT (https://cdn.skillenza.com/files/bf

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abcdefghijklmnopqrstuvwxyz
4 5
12345
5 2
01

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aimke
hlf
g
4
355

Upload solution to editor

Select language

1

Test Submit