The TCS Global Coding Contest

## Shanmukha Gajula 😃

**05** Hr **41** Min **17** Sec

## Guidelines

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ONLINE EDITOR (A)

Constellation

+ Problem Description

Three characters { #, \*, . } represents a constellation of stars and galaxies in space. Each galaxy is demarcated by # characters. There can be one or many stars in a given galaxy. Stars can only be in shape of vowels { A, E, I, O, U } . A collection of \* in the shape of the vowels is a star. A star is contained in a 3x3 block. Stars cannot be overlapping. The dot(.) character denotes empty space.

Given 3xN matrix comprising of { #, \*, . } character, find the galaxy and stars within them.

Note: Please pay attention to how vowel  $\boldsymbol{A}$  is denoted in a 3x3 block in the examples section below.

+ Constraints

3 <= N <= 10^5

+ Input

Input consists of single integer N denoting number of columns.

+ Output

Output contains vowels (stars) in order of their occurrence within the given galaxy. Galaxy itself is represented by # character.

+ Time Limit

1

+ Examples

Example 1

Input

18

As it can be seen that the stars make the image of the alphabets U, O, I, E and A respectively.

Example 2

Input

12

\*.\*#.\*\*#.\*. \*.\*#..\*.#\*\*

\*\*\*#.\*\*\*#\*.\*

Output

U#I#A

Explanation

As it can be seen that the stars make the image of the alphabet U, I and A.

```
12
* . * # . * * * # . * .
* . * # . . * . # * * *
* * * # . . * . # * . *
```

## Upload Solution [ Question : A ]

 $\square$  I, **shanmukha gajula** confirm that the  $\square$  Took help from online sources answer submitted is my own. (attributions)

Choose a

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