

C

Character Recognition?

Input: Standard Input
Output: Standard Output



Write a program that recognizes characters. Don't worry, because you only need to recognize three digits: 1, 2 and 3. Here they are:

```
. * .   ***   ***  
. * .   . . *   . . *  
. * .   ***   ***  
. * .   * . .   . . *  
. * .   ***   ***
```

Input

The input contains only one test case, consisting of 6 lines. The first line contains n , the number of characters to recognize ($1 \leq n \leq 10$). Each of the next 5 lines contains $4n$ characters. Each character contains exactly 5 rows and 3 columns of characters followed by an empty column (filled with '.').

Output

The output should contain exactly one line, the recognized digits in one line.

Sample Input

Output for Sample Input

3 . * . . . * . . * . . * . . . * . . . * . . * . . . * . . * . . * . * * . . * . . . * . . * .	123
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Problemsetter: Rujia Liu, Special Thanks: Feng Chen, Md. Mahbubul Hasan