

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

```
3
.*..***,***.
.*...*...*.
.*..***,***.
.*..*...*...*.
.*..***,***.
```

Sample Output

123