

# Problem C



MEMORY LIMIT  
**1024 MB**



CPU TIME LIMIT  
**1 second**



DIFFICULTY  
**Not Available**

## LINKS

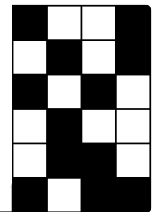
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## DOWNLOADS

[Sample data files](#)

## SOURCE & LICENSE

ICPC North America  
Regional Contests  
2019-11-09



- Every row has the same number of black squares as it has white squares.
- Every column has the same number of black squares as it has white squares.
- No row or column has 3 or more consecutive squares of the same color.

Given a grid, determine whether it is *correct*.

## Input

The first line contains an integer  $n$  ( $2 \leq n \leq 24$ ;  $n$  is even). Each of the next  $n$  lines contains a string of length  $n$  consisting solely of the characters 'B' and 'W', representing the colors of the grid squares.

## Output

If the grid is *correct*, print the number 1 on a single line. Otherwise, print the number 0 on a single line.

### Sample Input 1

4

WBBW

WBWB

BWWB

BWBW



### Sample Output 1

1



### Sample Input 2

4

BWWB

BWBB

WBBW

WBWW



### Sample Output 2

0



### Sample Input 3

6

BWBWWB

WBWBWB

WBBWBW

BBWBWW

BWWBBW

WWBWBB



### Sample Output 3

0



### Sample Input 4

6

WWBBWB

BBWWBW

WBWBWB

BWBWBW

BWBBWW

WBWWBB



### Sample Output 4

1



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