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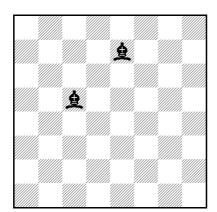
The Virtual Learning Environment for Computer Programming

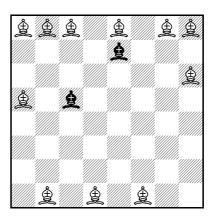
Bishops P93682\_en

Quinzè Concurs de Programació de la UPC - Final (2017-09-13)

You are given an  $n \times n$  chess board, with some black bishops on it. Please place as many white bishops as possible is such a way that no white bishop threatens another bishop, either black or white.

For instance, for the board to the left a possible solution is shown on the board to the right.





## Input

Input consists of several cases, each with n followed by n lines, each one with n characters: 'B' for black bishops, and '.' for empty cells. Assume  $1 \le n \le 1000$ .

## Output

For every case, print any possible solution using 'W' for white bishops, followed by a line with 20 dashes. Follow exactly the format of the sample output.

Sample input	Sample output
8	WWW.W.WW
•••••	B
B	W
• • • • • • • •	W.B
B	
	.W.W.W.
• • • • • • • • • • • • • • • • • • • •	
	WWW
3	• • •
•••	.W.
•••	
•••	

## **Problem information**

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