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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 $1 \leq n \leq 1000$.

## 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

8
.... B. . .
.........
. . B....
.........
.........
........

3
$\cdots$
. . .

## Sample output

```
WWW.W.WW
....в...
........
W.B.....
.......
........
```

.w.w.w. .
WWW
. . .
. W.
. W.
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## Problem information

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