## Problem B. Build The Grid

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 2 seconds |
| Memory limit: | 1024 mebibytes |

Given is a square grid of $N \times N$ squares. Your task is to paint each square of the grid either white or black such that:

- The white squares are connected: for any two white squares, you can go from one to the other by moving only between white squares that share a side.
- Each black square shares a side with at least one white square.
- Denote the number of black cells in the $i$-th row as $p_{i}$. The sequence $P=\left(p_{1}, p_{2}, \ldots, p_{N}\right)$ is then a permutation of integers between 0 and $N-1$, inclusive.
- Denote the number of black cells in the $j$-th column as $q_{j}$. The sequence $Q=\left(q_{1}, q_{2}, \ldots, q_{N}\right)$ is then a permutation of integers between 0 and $N-1$, inclusive.

It can be shown that such a construction always exists.

## Input

The input consists of one integer $N(2 \leq N \leq 500)$.

## Output

Print $N$ lines. On the $i$-th line, print a string of length $N$ consisting of characters ' B ' and ' W '. The $j$-th character in the $i$-th string corresponds to the square in $i$-th row and $j$-th column: ' B ' denotes black squares and ' $W$ ' denotes white squares.

## Example

| standard input | standard output |
| :--- | :--- |
| 3 | WWB |
|  | BWB |
|  | WWW |

