# LCC '22 Contest 5 J2 - Pieces

**Time limit:** 2.0s **Memory limit:** 64M

Leo wants to bring a chess set on his field trip. However, the set is quite old (it even has some leftover cheese on it from when he last brought it to a field trip), and after a quick headcount, he realizes that he is missing a few pieces! Given $N$ pieces that his chess set currently contains, can you help Leo figure out which pieces he is missing?

**Note**: A complete chess set has 32 pieces, 16 black ones and 16 white ones. For each color, there are two bishops (`B`), two knights (`N`), two rooks (`R`), a king (`K`), a queen (`Q`), and eight pawns (`P`).

## Constraints

$1 \leq N \leq 31$

## Input Specification

The first line of input contains one integer $N$, the number of chess pieces Leo already has.

The next $N$ lines will contain two space-seperated characters: the color and type of the $i^{th}$ chess piece that Leo has.

For example, `B B` represents a black bishop, and `W Q` represents a white queen.

## Output Specification

In any order, for each piece that Leo is missing, output its color and type seperated by a space.

## Sample Input

```
30
B B
W P
B K
B Q
B R
B N
B P
B N
B P
B P
B P
B P
W P
B P
W P
W B
W B
W Q
W R
B P
W R
W N
W N
B B
W P
W P
B R
W P
W P
W P
```

## Sample Output

```
W K
B P
```