Problem A. Old Magician

Practice Contest

A. Old Magician

B. Square Fields

C. Cycles

Questions asked 4

This contest is open for practice. You can try every problem as many times as you like, though we won't keep track of which problems you solve. Read the Quick-Start Guide to get started.

Small input 5 points	Solve A-small
Large input 10 points	Solve A-large

Problem

A magician does the following magic trick. He puts W white balls and B black balls in his hat and asks someone from the audience, say Bob, to remove pairs of balls in whatever order Bob would desire. After removing a pair of balls, Bob is asked to place a white ball back into the hat if they are the same color. Otherwise he is asked to place a black ball into the hat.

When Bob is left with only one ball in the hat, he asks the magician what color the last ball is. Needless to say, the magician can't see the order by which Bob does the replacements.

The problem is that the magician, like most magicians, is old and sometimes forgets how to do the trick. Being the kind person you are, you are going to help the magician.

For each pair of numbers (W,B) you are asked to output one of the following:

- "WHITE" - if the last ball in the hat will be white for sure.
- "BLACK" - if the last ball in the hat will be black for sure.
- "UNKNOWN" - if you can't be sure of the last ball's color.

Input

The first line of the input file contains the number of cases, **N**. **N** test cases follow.

Each case contains **W** and **B** on a line separated by a space.

Output

For each input case, you should output:

```
Case #X: Y
```

where **X** is the number of the test case and **Y** is either "WHITE", "BLACK" or "UNKNOWN" as explained above. (quotes for clarity)

Limits

0 < **N** ≤ 1000
W + **B** > 0

Small dataset

$0 \le \mathbf{W} \le 1000$
$0 \le \mathbf{B} \le 1000$

Large dataset

$0 \le \mathbf{W} \le 10^9$
$0 \le \mathbf{B} \le 10^9$

Sample

Input	Output
2 3 1 3 6	Case #1: BLACK Case #2: WHITE