

Problem J. Knight Game

- Time Limit: 2 sec

Problem Statement

The rule of this game is given as follows.

- There is a knight and a chessboard with H rows and W columns. The square at the i -th row from the top and the j -th column from the left is called square (i, j) . Initially, the knight is placed on square (x, y) .
- Alice and Bob alternately take the following action, starting with Alice.
- Move the knight onto one of the unvisited squares according to the knight's movement.
- Knights can move from (x_1, y_1) to (x_2, y_2) if and only if $(x_1 - x_2)^2 + (y_1 - y_2)^2$ is 5.
- The player who cannot move the knight is the loser.

When both players have done their best, determine whether Alice or Bob will win. Answer for T test cases.

The unvisited square is defined as follows.

- A square on the board that the knight has never visited since the beginning of the game.

Input

```
 $T$   
case1  
⋮  
case $T$ 
```

case _{i} represents the i -th test case.

Each test case is given in the following format.

H W x y

The input satisfies the following constraints.

- All inputs consist of integers.
- $1 \leq T \leq 2 \times 10^5$
- $1 \leq H, W \leq 10^9$
- $1 \leq x \leq H$
- $1 \leq y \leq W$

Output

Output T lines. On the line i , answer the winner of the i -th test case, Alice or Bob.

Sample Input	Sample Output
2 4 4 1 1 9 17 7 3	Alice Bob