

## 8031 Baklava

Baklava or baklava, is a sweet middle eastern dessert, mainly made from phyllo dough sheets, walnuts, and sugar syrup cut into small cubic pieces and served in cuboid boxes containing multiple layers.

Alice and Bob love to play what they call the last Baklava game, The rules are as follows:

- They choose a cuboid containing  $X$  by  $Y$  by  $Z$  cells of Baklava to play with.
- There are  $N$  poisonous cells both players know them.
- Alice plays first, and the two players alternate.
- In his/her turn the player has to cut the cuboid into two cuboids at least one of which is safe (doesn't contain a poisonous cube) and eats the safe part. The game continues with the other part.
- A cut is made by slicing along one of the axis  $X$ ,  $Y$  or  $Z$ .
- The person who cannot make a move in his/her turn losses the game.

Assuming both players play optimally, you are asked the following question: who wins the game?

### Input

Your program will be tested on one or more test cases. The first line of the input will be a single integer  $T$ , the number of test cases ( $1 \leq T \leq 100$ ).

Each test case starts with a line containing four space separated integers:

- $X$ : The length of the cuboid ( $1 \leq X \leq 1,000,000,000$ )
- $Y$ : The width of the cuboid ( $1 \leq Y \leq 1,000,000,000$ )
- $Z$ : The height of the cuboid ( $1 \leq Z \leq 1,000,000,000$ )
- $N$ : The number of poisonous cells. ( $0 \leq N \leq 100$ )

Followed by  $N$  lines each containing three space separated integers:

- $x_i$ : The  $x$ -coordinate of the  $i$ -th cube. ( $1 \leq x_i \leq X$ )
- $y_i$ : The  $y$ -coordinate of the  $i$ -th cube. ( $1 \leq y_i \leq Y$ )
- $z_i$ : The  $z$ -coordinate of the  $i$ -th cube. ( $1 \leq z_i \leq Z$ )

### Output

For each test case, print a single line containing 'Alice' if Alice wins the game, or 'Bob' otherwise.

**Note:** The figure on the right is an example of the first test case:

**Sample Input**

```
2
3 3 3 4
3 2 1
3 1 1
3 3 1
3 2 2
5 5 5 1
3 4 2
```

**Sample Output**

```
Alice
Bob
```

