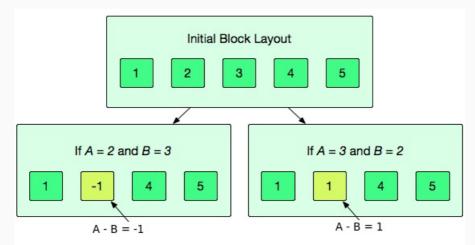
Kitty and Katty have N plastic blocks. They label the blocks with sequential numbers from 1 to N and begin playing a game in turns, with Kitty always taking the first turn. The game's rules are as follows:

- For each turn, the player removes 2 blocks, A and B, from the set. They calculate A B, write the result on a new block, and insert the new block into the set.
- ullet The game ends when only  $oldsymbol{1}$  block is left. The winner is determined by the value written on the final block,  $oldsymbol{X}$ :
  - $\circ$  If X%3=1, then Kitty wins.
  - If X%3 = 2, then Katty wins.
  - If X%3 = 0, then the player who moved last wins.

Recall that % is the Modulo Operation.

Given the value of N, can you find and print the name of the winner? Assume that both play optimally.

**Note:** The selection order for A and B matters, as sometimes  $A - B \neq B - A$ . The diagram below shows an initial set of blocks where N = 5. If A = 2 and B = 3, then the newly inserted block is labeled -1; alternatively, if A = 3 and B = 2, the newly inserted block is labeled 1.



### **Input Format**

The first line contains a single positive integer, T (the number of test cases or games). The T subsequent lines each contain an integer, N (the number of blocks for that test case).

### **Constraints**

- $1 \le T \le 100$
- $1 \le N \le 10^5$

## **Output Format**

For each test case, print the name of the winner (i.e.: either Kitty or Katty) on a new line.

## **Sample Input**

2

### **Sample Output**

Kitty Katty

### **Explanation**

Test Case 0:

N=2 so there are two blocks labeled 1 and 2. Kitty chooses A=2 and B=1, then inserts a new block with the label 1 (the result of 2-1). The game ends, as there is now only 1 block in the set. The

label on the last block, X, is 1, so we calculate result = 1 % 3 = 1. Because result = 1, Kitty wins and we print Kitty on a new line.

# Test Case 1:

N=3, so there are three blocks labeled 1, 2, and 3. No matter how Kitty makes the first move, Katty will win. If Kitty chooses A=3 and B=2 on the first move and inserts a block labeled 1 (the result of 3-2), the set of blocks becomes  $\{1,1\}$ . Katty then must choose A=1 and B=1 and insert a new block labeled 0 (the result of 1-1). The game ends, as there is now only 1 block in the set. The label on the last block, X, is 0, so we calculate result=0 % 3=0. Because result=0 and Katty made the last move, Katty wins and we print Katty on a new line.