A21: x^y

**Time limit: 2sec**

**Problem Description**

Find the all digits of (x^y)%P, where x, y, and P are 32-bits positive integers and P<=10000.

**Input Format**

第一行輸入N組測資，每組測資需要有x,y,P三數，其中 P<=10000

**Output Format.**

每一組測資後面皆需要有換行，印出(x^y)%P的答案

**Sample Input:**

2  
2 5 100  
12345 1 1000

**Sample Output**   
32  
345