# 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