

Another Bigmod Problem

Given A, B and C, find the value of $(A^B)\%C$.

Input:

First line will contain a single integer T ($T < 1000$) indicating number of test case. After that, T lines will follow with three positive integers A, B and C. ($A, B, C \leq 10^{18}$)

Output:

For each test case, print a single line containing the case number and the value of $(A^B)\%C$.

Please check sample input/output to understand the format.

Sample Input	Sample Output
3 12 43 123 1231 123 1000 12345 123456789 123456789012345	Case 1: 6 Case 2: 991 Case 3: 59212459031520

Limits:

Language	Time	Memory
C	0.5 Second	50MB
C++	0.5 Second	50MB
Java	2 Second	50MB
C#	2 Second	50MB

For Java, use main as class name, do not mark your class as public and do not use custom package. Follow Ideone rule for java compilation, if you get compile error, try your code in ideone.com to see your problem.