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Final question:

[A - Big Mod](https://vjudge.net/problem/UVA-374)

 Calculate R := B P mod M for large values of B, P, and M using an efficient algorithm. (That’s right, this problem has a time dependency !!!.) Input The input will contain several test cases, each of them as described below. Consecutive test cases are separated by a single blank line. Three integer values (in the order B, P, M) will be read one number per line. B and P are integers in the range 0 to 2147483647 inclusive. M is an integer in the range 1 to 46340 inclusive. Output For each test, the result of the computation. A single integer on a line by itself.

Sample Input 3 18132 17 17 1765 3 2374859 3029382 36123

Sample Output 13 2 13195

