

MATH 343, PROBLEM SET 4

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1. PROBLEMS

- (1) Please write a program which takes as input e , c , and p , and solves the equation $x^e = c \pmod{p}$.
- (2) Please write a program which takes as input a composite number $N = pq$ and outputs p and q ; use Pollard's $p - 1$ algorithm.
- (3) From the text: 3.5, 3.8, 3.10, 3.11, and 3.13.