Try to solve the following problems by implementing their solutions with your favourite programming language.

Print the divisors of a number in O(n * sqrt(n)) complexity (n is the number)
Print the prime factorization of a number in O(n * log(n)) complexity (n is the number)
Given an integer array of size n, print the product of its elements modulo 998244353
Print 1000! (factorial) Modulo 998244353
Print C(10, 5) (print 10 choose 5 binomial coefficient).