

PUBLIC KEY CRYPTOGRAPHY - Mathematics

Project 3 (Weeks 5-8)

Topics: modern primality and factorization.

- You will prepare and explain a written homework on one of the following questions, which will be assigned to you during the seminars:
 1. Describe Solovay-Strassen's primality test, and apply it in an example.
 2. Describe Lucas's primality test, and apply it in an example.
 3. Describe Lucas-Lehmer's primality test, and apply it in an example.
 4. Describe Euler's factorization method, and apply it in an example.
 5. Describe Dixon's factorization method, and apply it in an example.

Points

- **1 point** if handed in by Weak 9 or Weak 10.
- **0.5 points** if handed in by Weak 11 or Weak 12.