BlumBlumShub pseudo-random number generator

- project for "Mobile Network Security" course
- strong security proof (related to integer factorization)
- passes the "Diehard test battery":
  - [http://www.stat.fsu.edu/pub/diehard/](http://www.stat.fsu.edu/pub/diehard/)

Cross-correlation algorithm

- implementation for floating point numbers
- use as basis for secure cross-correlation required for the music matching article (step 1 of the algorithm)