

For Monday

- Read chapter 10, section 5
- Chapter 10, exercise 28

Research Paper

- Any questions?

Program 5

- Any questions?

Matrix Multiplication

Optimal Binary Tree

Random Numbers

- Are they really random?
- What makes a good sequence of numbers for the purposes of randomized algorithms?

Linear Congruential Generators

- Basic concept:
 - $x_{i+1} = Ax_i \text{ mod } M$
- First x must be given: cannot be 0.
- Quality of the generator depends on the selection of A and M.
- If M is prime, x_i is never 0.
- Need to handle arithmetic overflow.
- PS: Standard rand() is not this good.

Skip Lists