Analysis example algorithms

1. Complete analysis of Russian multiplication – theoretical
2. Complete analysis of Fibonacci recursive – program, curve.

They noticed from Excel sheet that Fn=an+1. I proved that by induction.

1. Sorting
   1. Binary search - theoretical analysis with floor/ceiling
   2. Insertion sort
      1. Complete theoretical analysis
      2. program
   3. HW: Selection sort two versions
      1. Theoretical analysis
      2. Programs
      3. Find a worst case list for second version