For the first written assignment you will do the following exercises

1. Review section 3.2, Standard notations and common functions
2. Review the loop invariant proof for the MERGE procedure used in MergeSort (by the end of section 2.3.1 of the textbook)
3. Problem 2-2 *Correctness of bubblesort*
4. Problem 3-2 *Relative asymptotic growths*

*The assignment is due on September 14 by midnight. Only exercises 3 and 4 will be graded. For exercise 4, you need to proof your answer (you may use a plot or a mathematical proof).*