Reading

Cormen, Leiserson, Rivest and Stein, Chapters 1, 2, & 3.

Practice

CLRS, 1.2-2, 1-1, 2.1-2, 2.2-1, 2.2-3, 2.2-4, 2.3-4, 2-4, 3.1-1...8, 3.2-1, 3.2-5, 3-1, 3-3, 3-4 (c)-(f), 3-5, A-1

To Be Handed In

1. CLRS, 1.2-3

2. CLRS, 2.1-4. In addition to solving the problem as stated, express the running time (as a function of n) of your algorithm using Θ-notation.

3. Express the running time (as a function of n) of the following pseudo-code algorithms using Θ-notation.

```plaintext
r = 0
i = n*n
while i > 1 do
    for j = 1 to i do
        r = r + 1
    i = i/2
```

Please note: i/2 is \([i/2]\), the integer part of i/2.

4. CLRS, 3-2

5. CLRS, 3-4 (a), (b), (g), (h)