Some suggested problems in the eigth edition of Rosen's book chapters 1 to 6

Chapter: 1, 2. Logic and Sets. In the first six chapters we can't go through everything. Do the basic problems. If you get stuck, have a look in the text.

Exercises: I have tried to divide all problems into three categories, basic (B), medium (M) and challenges (C).

Basic (B) 1.1.11 (11:th problem in section 1.1),

1.2.23, 1.2.25,

1.3.5,

1.5.1, 1..5.3,

1.7.7, 1.7.11, 1.7.17

1.8.1

Supp 1.21

2.1.1, 2.1.9, 2.1.37,

2.2.1, 2.2.3

2.3.1, 2.3.3, 2.3.9

2.4.1, 2.4.29

2.5.1

Supp 2.13

Chapter: 3,4,5. Algorithms, Number Theory and Induction.

Exercises:

B 3.2.1, 3.2.5

3.3.5

4.1.5, 4.1.13ab

4.2.1, 4.2.5

4.3.5

Supp 4.3

5.1.3, 5.1.5

5.3.1, 5.3.9, 5.3.23

Supp 5.1

Chapter: 6. Counting

Exercises:

B 6.1.1, 6.1.11, 6.1.21, 6.1.25

6.2.1, 6.2.3, 6.2.9

6.3.1, 6.3.3, 6.3.11, 6.3.17

6.4.1, 6.4.5, 6.4.7

6.5.1, 6.5.5

Supp 6.1.