Assignment #3:
Due September 14
Please keep a copy with you!!!

1. Show switch settings for the following using the algorithm described in class: Show the settings for all switches.

   ![Switch Diagram](image)

   \[ n = 8 \]

2. Problem 4-5

3. Problem 4-6

4. Problem 9-2 (a),(b),(c).

5. In SELECT algorithm, we grouped elements into sets of 5 each (except possibly the last one which may contain fewer). Analyse the algorithm if we made the following changes (one at a time)

   (a) We grouped them into sets of 7
   (b) We group them into sets of 3

   Justify your answer.

6. 9.3-8 (page 192)

7. Challenge Problem: Problem 9.3-4 (page 192): do for \( i = 2 \).