

Sample Solutions to Quiz #2

1. (a) See Figure 1.

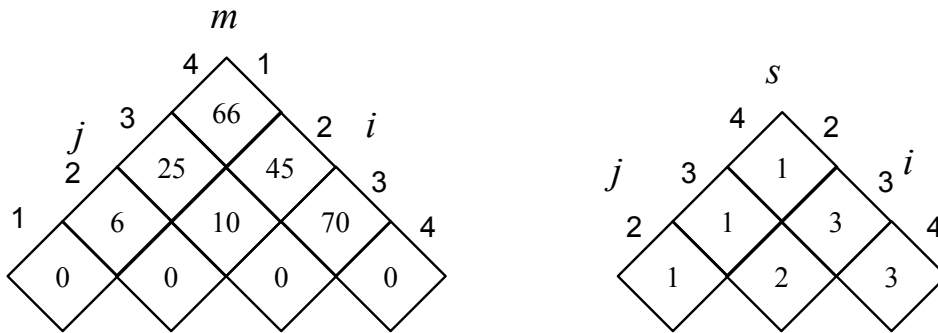


Figure 1: The results for Problem 1.

(b) An optimal parenthesization: $(A_1)((A_2A_3)(A_4))$.
 The minimum number of scalar multiplications: 66.

2. See Figure 2.

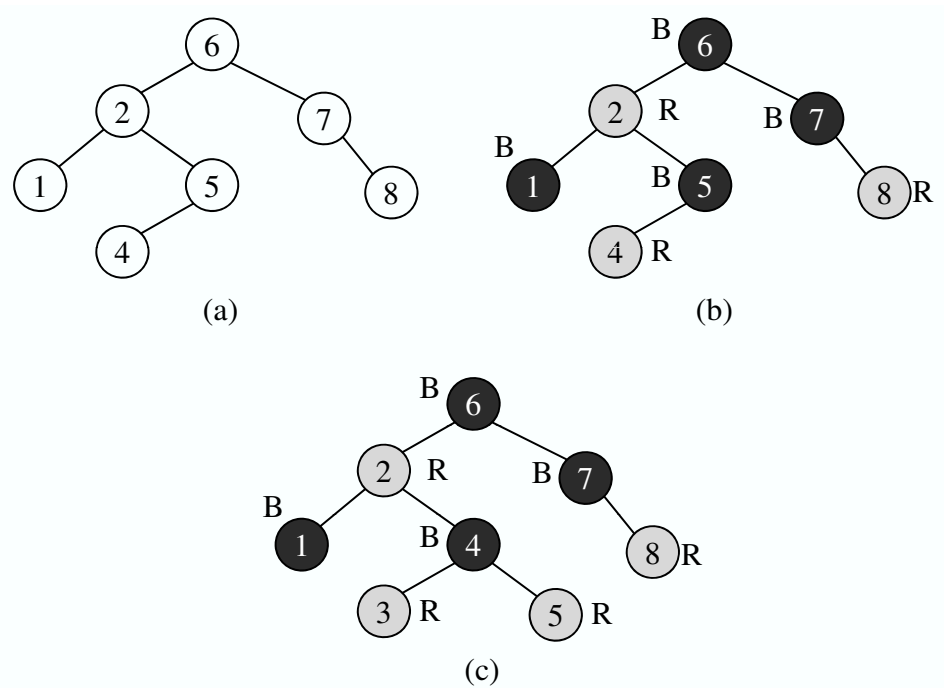


Figure 2: The results for Problem 2.