CSC373 Worksheet 3

July 28, 2020

Source: link

- 1. **CLRS 15.2-1:** Find an optimal parenthesization of a matrix-chain product whose sequence of dimension is < 5, 10, 3, 12, 5, 50, 6 >
- 2. **CLRS 15.2-2:** Give a recursive algorithm MATRIX-CHAIN-MULTIPLY(A, s, i, j) that actually performs the optimal matrix-chain multiplication, given the sequence o matrices $\langle A_1, A_3, ..., A_n \rangle$, the s table computed by MATRIX-CHAIN-ORDER, and the indices i and j. (The initial call would be MATRIX-CHAIN-MULTIPLY(A, s, 1, n)).