CSCE 5150 Analysis of Computer Algorithms

Assignment 4

Due on Canvas

(100 points)

State your answers legibly and concisely. Your solutions will be graded on correctness, elegance, clarity, and originality. Please remember that although group work is permitted, the work handed in must be in your own words.

Fill in the cost table using the dynamic programming algorithm for matrix products on the following input:

$n = 5,\ r_0 = 12,\ r_1 = 2,\ r_2 = 2,\ r_3 = 12,\ r_4 = 8,\ r_5 = 14.$

For full credit, show all of your work.

i \ j	1	2	3	4	5
1					
2					
3					
4					
5					