N	Matrix Dimensions	Initial Parenthesization (IP)	Optimal Parenthesization (OP)	Time IP	Time OP	Speedup
4	800 1100 900 1200 100	$(((A_1 \times A_2) \times A_3) \times A_4)$	$(A_1 \times (A_2 \times (A_3 \times A_4)))$	2.708203 s	0.435892 s	6.213014 X
5	1000 2000 900 1500 600 800	$((((A_1 \times A_2) \times A_3) \times A_4) \times A_5)$	$((A_1 \times (A_2 \times (A_3 \times A_4))) \times A_5)$	23.159563 s	6.536831 s	3.5429344X
6	1500 400 2000 2200 600 1400 1000	$(((((A_1 \times A_2) \times A_3) \times A_4) \times A_5) \times A_6)$	$(A_1 \times ((((A_2 \times A_3) \times A_4) \times A_5) \times A_6))$	82.55576 s	22.279821 s	3.705405 X