```
                  0      84

                         0

          S Matrix

0       1      1      3

        0      2      3

               0      3

                      0


Minimum number of matrix multiplication using dynamic programming: 158

Total number of scalar multiplication without dynamic programming: 1680
Enter the number of matrices you wish to multiply:
6
Please enter dimension 0 : 4
Please enter dimension 1 : 3
Please enter dimension 2 : 5
Please enter dimension 3 : 7
Please enter dimension 4 : 3
Please enter dimension 5 : 6
Please enter dimension 6 : 4


          M Matrix

0       60     189    186    258    306

        0      105    150    204    258

               0      105    195    237

                      0      126    156

                             0      72

                                    0

          S Matrix

0       1      1      1      4      1

        0      2      2      4      4

               0      3      4      4

                      0      4      4

                             0      5

                                    0


Minimum number of matrix multiplication using dynamic programming: 306

Total number of scalar multiplication without dynamic programming: 30240
rohitkrishnanvidyasagar@Rohits-MacBook-Air assignment-8-matrix %
```