1)

b)

Output C:

18 14

62 66

c)

Time for multiplying 16x16 matrix is 121800

d)

Time for multiplying 64x64 matrix is 2379400 . Run time has increased nearly 20 times.

2)

b)

Matrix check for desired result:

18 14

62 66

c)

Time for multiplying 16x16 matrix with recursive method is 2005200

d)

Time for multiplying 64x64 matrix with recursive method is 82617500. Run time increased nearly 40 times