

Q1) PSEUDOCODE FOR MATRIX ADDITION IN MAP REDUCE FORM

map (files, location)

{

// $m \times n$ matrix, files containing Matrices A, B

For i range from 1 to m

For j range from 1 to n

Input Matrix A, Get Values to A[i][j]; // mapping values

For i range from 1 to m

For j range from 1 to n

Input Matrix B, Get Values to B[i][j]; // mapping values

}

reduce(keys, valuelist)

{

//keys are A[i][j] and B[i][j] , Create C as Null Matrix

For i range from 1 to m

For j range from 1 to n

Input Matrix C, C[i][j]=0;

For i range from 1 to m

For j range from 1 to n

C[i][j]=A[i][j]+B[i][j]

}

Emit (keys, valuelist)

{

For i range from 1 to m

For j range from 1 to n

C[i][j]=A[i][j]+B[i][j]

Emit C[i][j] //printing a row

Emit New Line //printing a new line

}