USC ID: 3689281438

> 1st Map Function:

for each tuple (A.i,j, A[i,j]) (i is the row number of A
emit (j, (A, i, A[i,j]))

Similarly for each tuple (B, j, k, B[j,k]) (j is the row number of B
emit (j, (B, §k, B[j,k]))

emit (j, (B, §k, B[j,k]))

> 1st Reduce Function:

for each j in the key
for each i in the value list in A and for each k in the value list in B

emit $((i,k), A[i,j] \times B[j,k])$

> 2nd Map Function:

Just is identity.

pass the key-value pair into reduce function

for each k-v pair

emit ((i,k), A[i,j]*B[j,k])

> 2nd Reduce Function:

for each key-value pair ((i,k), A[i,j] × B[j,k])

emit (i,k, value), where i is the row of C

k is the column of C

value is the value of C[i,k]