1. Construct $\hat{A}^{CSC}$

$\hat{A}^{CSC}.colPtr$

0	0	2	3	3	4	5	5	5

$\hat{A}^{CSC}.row$

1	2	1	2	1

2. Histogram

$coarseCounts$

5	4
3	2

3. Modified prefix sum

$coarseOffsets$

0	5	9
9	12	14

4. Generate coarse level (reorder)

$coarseCol$

0	2	0	1	3	5	7	7	5	0	2	3	5	7

$coarseVal$

| $A_{11}B_{10}$ | $A_{11}B_{12}$ | $A_{12}B_{20}$ | $A_{15}B_{51}$ | $A_{15}B_{53}$ | $A_{11}B_{15}$ | $A_{11}B_{17}$ | $A_{12}B_{27}$ | $A_{15}B_{55}$ | $A_{21}B_{10}$ | $A_{21}B_{12}$ | $A_{24}B_{43}$ | $A_{21}B_{15}$ | $A_{21}B_{17}$ |

Coarse chunk 0   Coarse chunk 1   Coarse chunk 0   Coarse chunk 1

Row 1 of C Row 2 of C