A

1		3
	2	4

Sparse matrix (CSC format)

×

B

0	7	0
5	0	9
6	8	0

Dense matrix

=

C

18	31	0
24	32	18

Dense matrix

A column pointers

0	1	2	3	5

A row indexes

0	1	0	0	1

A values

1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4

B values

0	5	6	7	0	8	0	9	0
0	5	6	7	0	8	0	9	0
0	5	6	7	0	8	0	9	0
0	5	6	7	0	8	0	9	0
0	5	6	7	0	8	0	9	0
0	5	6	7	0	8	0	9	0
0	5	6	7	0	8	0	9	0
0	5	6	7	0	8	0	9	0
0	5	6	7	0	8	0	9	0
0	5	6	7	0	8	0	9	0
0	5	6	7	0	8	0	9	0

C values

0	0	0	0	0	0
0	10	0	0	0	0
18	10	0	0	0	0
18	34	0	0	0	0
18	34	7	0	0	0
18	34	7	0	0	0
18	34	31	0	0	0
18	34	31	32	0	0
18	34	31	32	0	0
18	34	31	32	0	18
18	34	31	32	0	18
18	34	31	32	0	18