

PARALLEL. 019 R3/24/22

D: A B C D E
2 1 2 3 2

O: A A B C C D D D E E
0 3 4 6 9

1. SCAN C: 0 3 4 6 9 11 S.

2. USE S TO SCATTER COUNTS
ITERATION

DATA	0	1	2	3	4	5	6
INDX	0	3	4	6	9	11	

OUT: 0 0 0 1 2 0 3 0 0 4 0 5

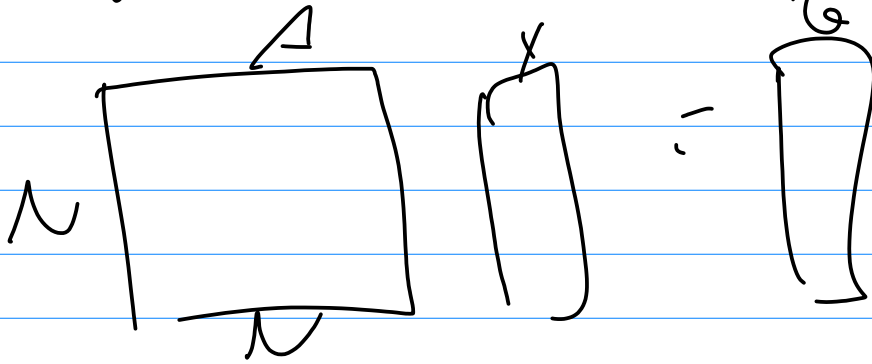
MAXSCAN 0 0 0 1 2 2 3 3 3 4 4 5

USE THIS TO GATHER DATA

DATA A B C D E F

OUT A A B C C D D D E E E F

SPARSE MATRIX \times VECTOR



$N = 9M$ UNKNOWN s .

A HAS 81T ENTRIES

45M NONZERO.

COMMON: LIST NONZERO POSITIONS
VALUES

Q " TRANSFORM TAKES 2 INPUT VECTORS
MAYBE YOU WANT 3 ?
WHAT TO DO ?

A: ZIP ITERATOR.