Problem Solving Techniques 문제해결

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- 5 points
 - The exercise is not evaluated in detail but evaluated as Pass/Fail.
 - (Note that each homework will be about 100 points.)

- Why 5 points?
 - I want all students to solve this exercise to participate in-class discussion for the exercise.

- Report submission (no code submission)
 - Due date: 3/8 23:59 (no late submission accepted)
 - Submission site: https://icampus.skku.edu/
 - Submission format: [Template] Report for exercise/homework
 - File name: yourid_EX_A.pdf
 - Example: 2000123456_EX_A.pdf

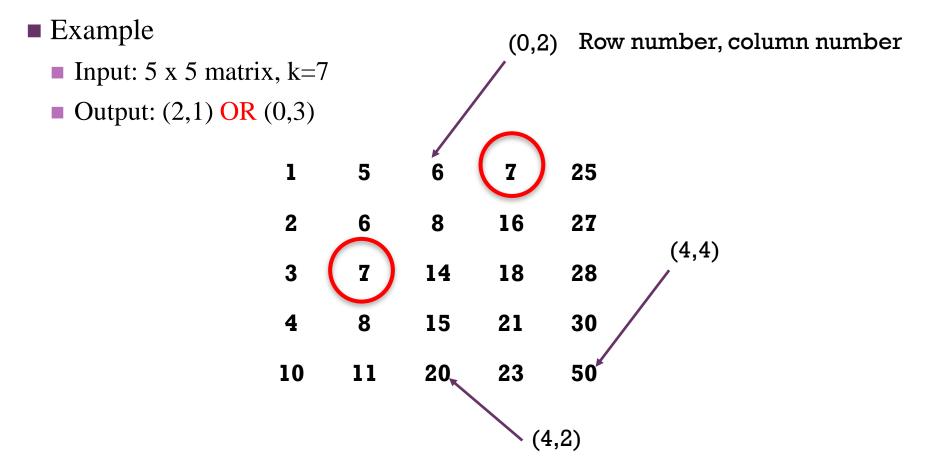


■ Finding k

- There is an N*N matrix. All elements in each row and column are sorted in an ascending order.
- Find a single k efficiently (i.e., with a minimum number of elements to be accessed). If there are multiple k, you need to find **ANY SINGLE** k.
- Develop a way to find any single k (or prove no k) with the minimum number of elements to be accessed in the worst case.
 - For example, for 5*5 matrix, there are 3 problems for k,
 - A: the number of elements to be accessed: 3, 5, 7
 - B: the number of elements to be accessed: 6, 6, 6
 - Then, A's performance is 7 and B's performance is 6; so B's solution is better.

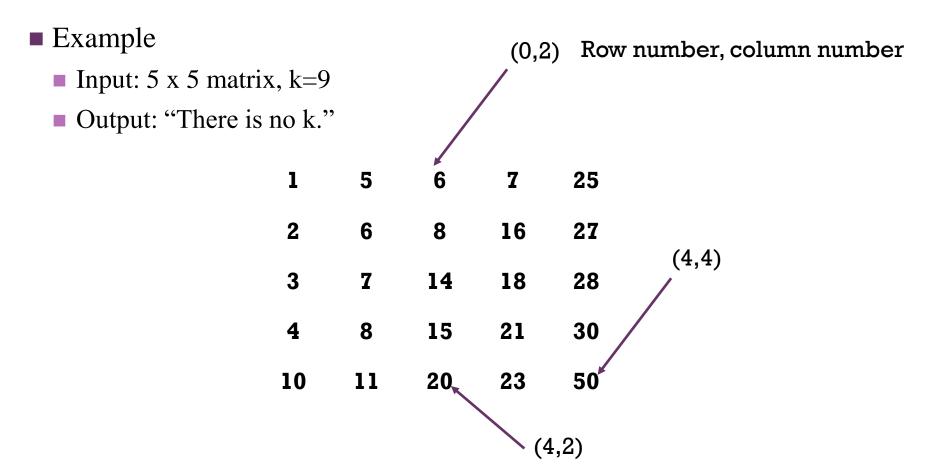
■ Problem

■ Find a single k efficiently (minimum access of elements). If there are multiple k, you need to find **ANY SINGLE** k.



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