





# HONORS CLASS II

## Find the largest element (large n, small k)

- square of elements that is present on at least 2 places
- 1st section: largest and second largest
- 2nd section: largest element after each row
- the collection iteratively after each row
- element is read

Q: log k it using min-heap

Q: Use QuickSelect with fixed size 2k-1  
Smaller arrays: e.g. odd size 2k-1  
Smaller arrays: e.g. even size 2k  
files: vector<int>: container, stream, system

Q: median of two sorted arrays  
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## Convert sorted doubly-linked list into a BST

- 1. sorted doubly-linked list
- 2. sorted doubly-linked list
- 3. sorted doubly-linked list
- 4. sorted doubly-linked list
- 5. sorted doubly-linked list

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## Implement Region Expression

- 1. Implement Region Expression
- 2. Implement Region Expression
- 3. Implement Region Expression
- 4. Implement Region Expression
- 5. Implement Region Expression

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## Draw the Skyline

- 1. Draw the Skyline
- 2. Draw the Skyline
- 3. Draw the Skyline
- 4. Draw the Skyline
- 5. Draw the Skyline

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## Compute Minimum Subarray

- 1. Compute Minimum Subarray
- 2. Compute Minimum Subarray
- 3. Compute Minimum Subarray
- 4. Compute Minimum Subarray
- 5. Compute Minimum Subarray

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## Find the maximum

- 1. Find the maximum
- 2. Find the maximum
- 3. Find the maximum
- 4. Find the maximum
- 5. Find the maximum

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## Heavy Hitter Problem

- 1. Heavy Hitter Problem
- 2. Heavy Hitter Problem
- 3. Heavy Hitter Problem
- 4. Heavy Hitter Problem
- 5. Heavy Hitter Problem

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