

PROBLEM DEFINITION

Top- K : find k smallest (or largest) elements in a list of N elements.

For example, when $N = 8$, $k = 3$:



TWO USEFUL ENHANCEMENTS IN PRACTICE

ALGORITHM 1: SORTING

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ALGORITHM 2: PRIORITY QUEUE (PQ)

ALGORITHM 3: SELECTION + FILTER</

ALGORITHM 3: SELECTION

WARPSELECT

ACCELERATE W

A TRICK FROM BIT

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TRADE-OFF WHEN CONSIDERING

OUTLINE

OUTLINE

