Kth Largest Term fleunistic: "K" => Priority aveue natural order [323124556] a < b negative a - b a = b a > b positiv a - b a > bApproach 1: Sort Descending Arrays. sort (Nums, (a,b) -> b-a) T.C. O(ngn) neverse order (opposite) a < b b-a Approach 2:

put all elements in Max Heap

pop K times. a=b 6-a a >b 5 3 6-a ngn + Kgn = O(ngn) No Better Approach 3: We still need to iterate on all elements (First Principles)
Can we limit heap to K; as that's what
we are looking for. Loop Invariant: At any given time heap hobbe

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Init: | Why mintlesp: | etement = 2

| 3 2 | they any given time | pop: 1, add(2) ...

you am pep Min 2; 2

mintlesp if you get good 333 2 3

etement K largest elements Uso for. Temuhetr 4 Resolt. Yash Pradham Study Notes