Heap is a complete binary tree that comes with a heap order property. level is completely filled except last added from left (lean towards left) Jab bhi Koi node add Karni hai to left me dalege Max beap Min herp -) root node

Date

Node -> i Parent (i) -> (i/2) left child(i) -> 2* i right child(i)-) 2* i+1 50 invert Karna bhul gya value) Void insert (AC), n, n=n+l; A[n]= value; -> elsement ko sabse phile last me int i = n; while (171) int parent = 1/2; > element Ka pringfind if (a Cparent) = a CiJ) -> Kya par ent element swap (A, parent, i);) to swap kardo i= parent; og ab agar saap kardiga to ab phir yahi
condition check return; Karo

Deletion: -Jab bhi delete Kanna hai to mattab root void delete (AC), n) node Ko delete Kareje = A[n]; > last element Ko I pe dal diga ab thech Karege Kya se max heap hai ga nahi int left = A[2* i+1];

int right = A[2* i+1];

int larger = left > right [2* iz: 2* i+1;

il (1(i) < AClarger])) agar larger bda hai

larger to to larger hai wo a gya phir heap wali property Ko check Karte raho return; Max hea ->apko input O(nlogh)



