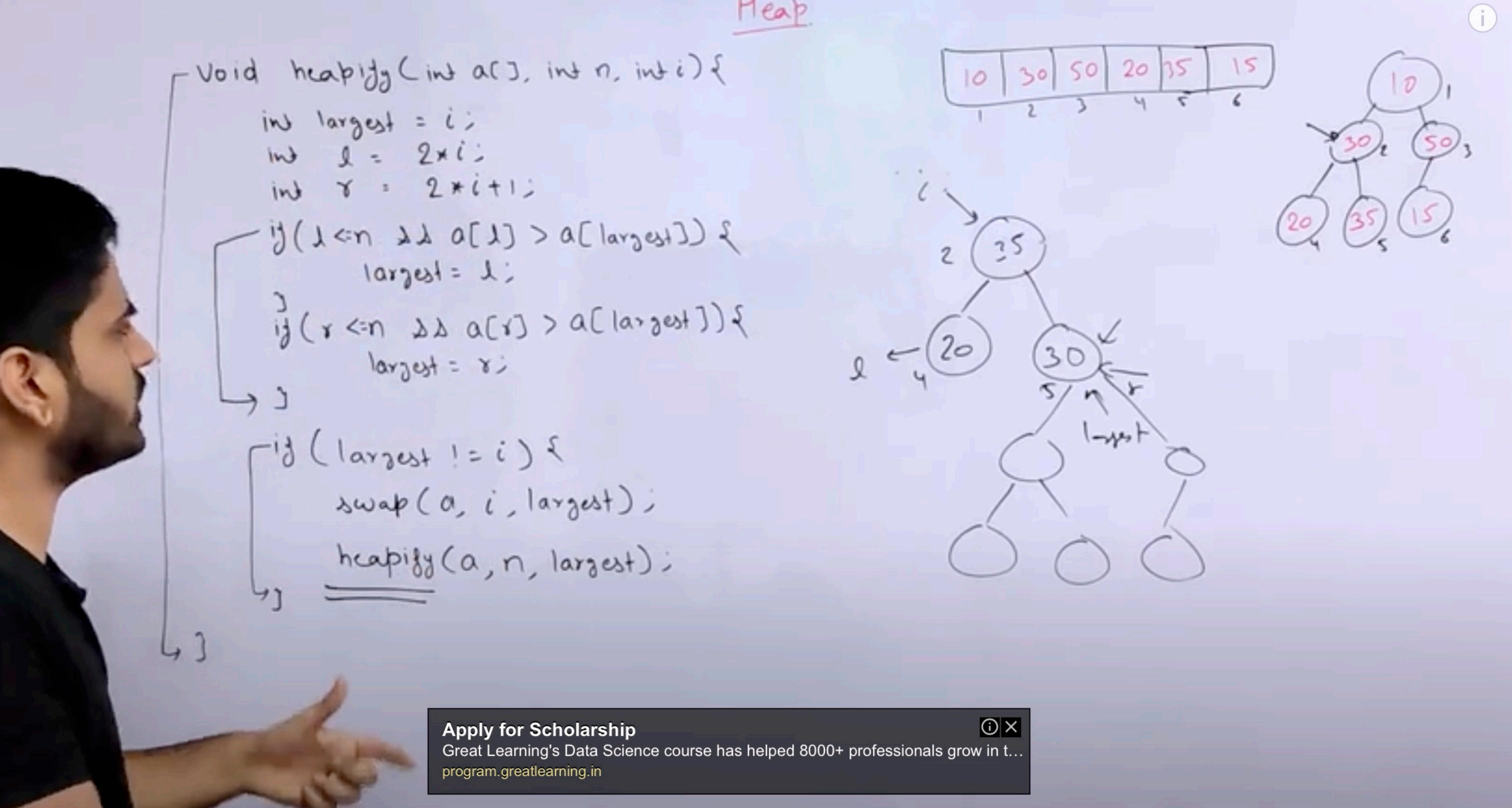


```
-void insert (A[], n, value) &
 n= n+1:
 A[n] = value;
 int i = n;
-while (i > 1) {
    int parent = i/2:
    if (a [parent] < a [i]) {
      swap (A, parent, i);
       i = parent i
    ] else {
       return;
```



Heap MAXHEAP 50 30 0(n logn)



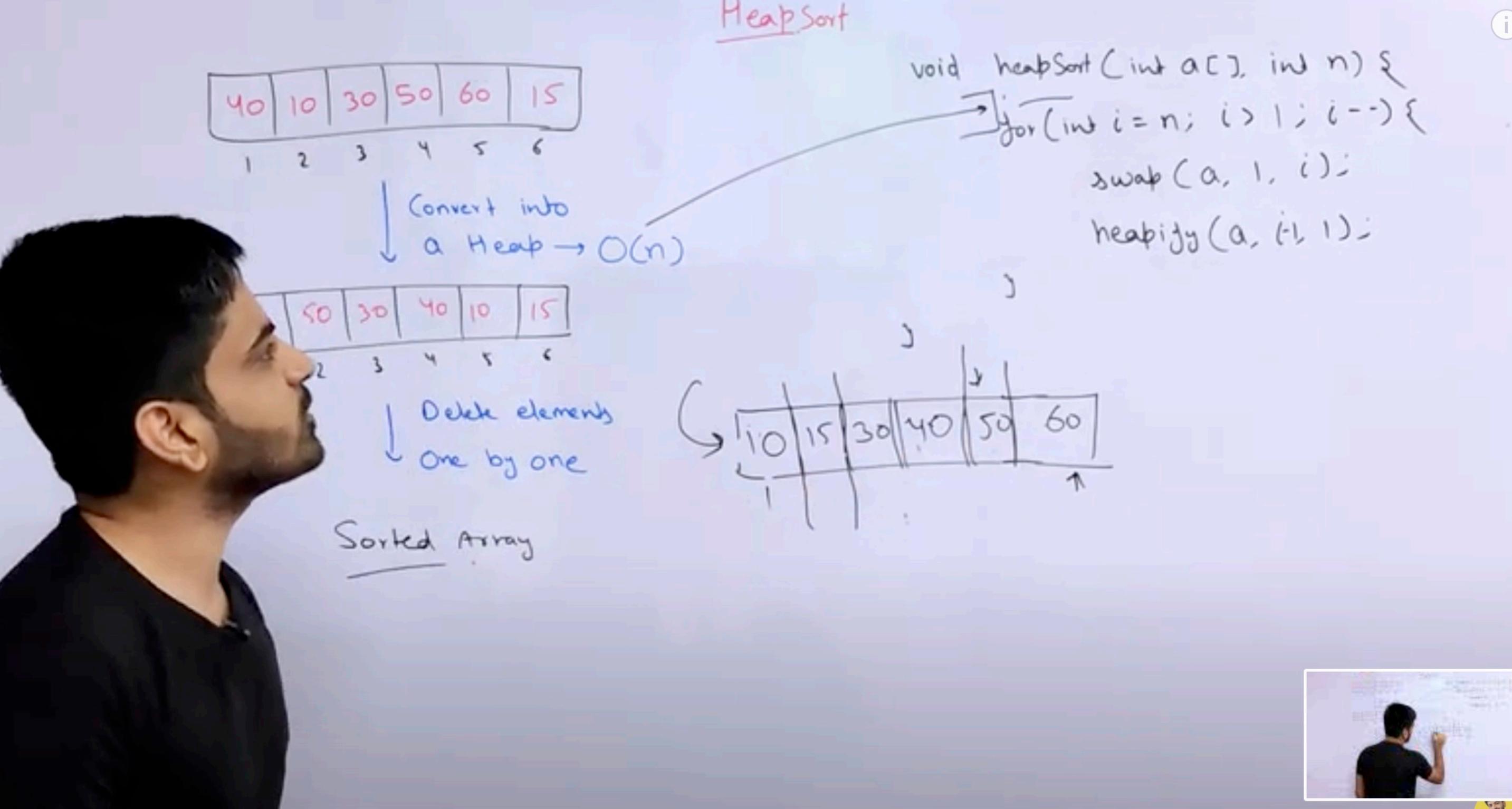


- Void heapidy (int ac), int n. inti) { 10 30 50 20 35 ind largest = i; ind 1 = 2xi; int 8 = 2 * i + 1; 50 35 15 20 30 10 1) (1 < n 11 a[1] > a[largest]) { largest = 1; if (x <=n DD a[x] > a[largest]) { - build heap (in act, in n) { largest = 8: - for (in i= n/2; i >0; i--) { rid (largest != i) { heapidy (a,n,i); swap (a, i, largest); heapigy (a, n, largest); (i) X **Apply for Scholarship**

Heap.

(30) (10)e

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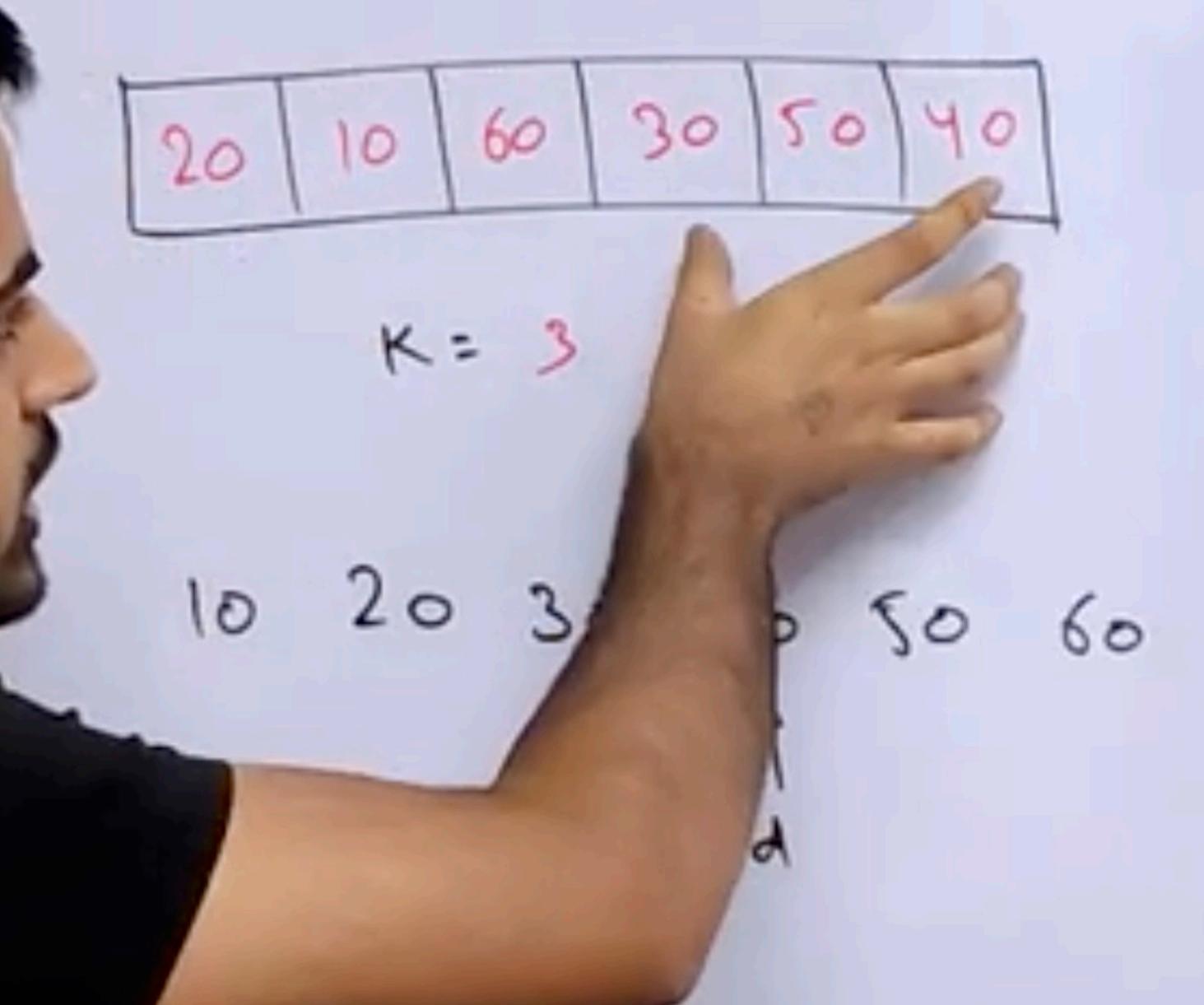


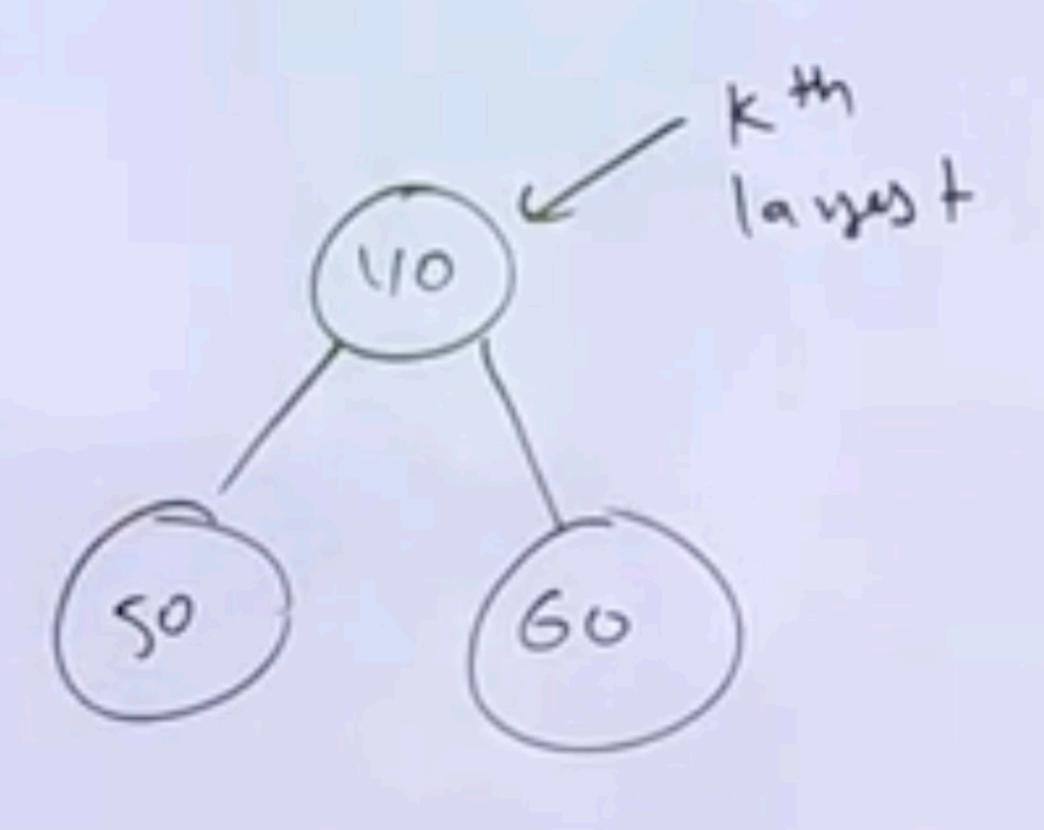
import java. wil. *; #include < io stream > public class Main Class & # include (queue) Maxheab wsing namespace std; 3 () rian -int main () { Priority Queue < Integer> pg = new Priority Onevec Priority-queue < int > Pq; Pg. add (5)= Minheab Pq. Push (-5); pg. add (15); pg. push (-15); pg. add (10); pg. push (-10); sout (pg. size()); COWECC Pg. Size(); while (199 SEmpty()) while (Ipg. empty) { (out <<- pg. top(); Peck()); Pg. Pop(); Pa return 0; 5, 10, 15

Priority Queue

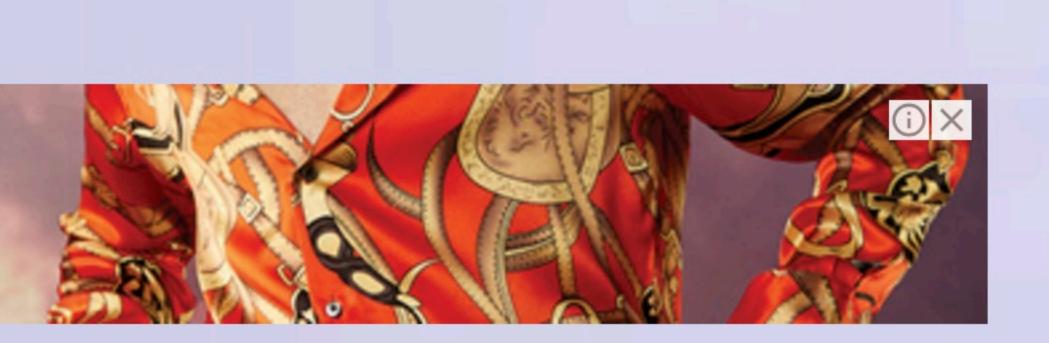
Question:

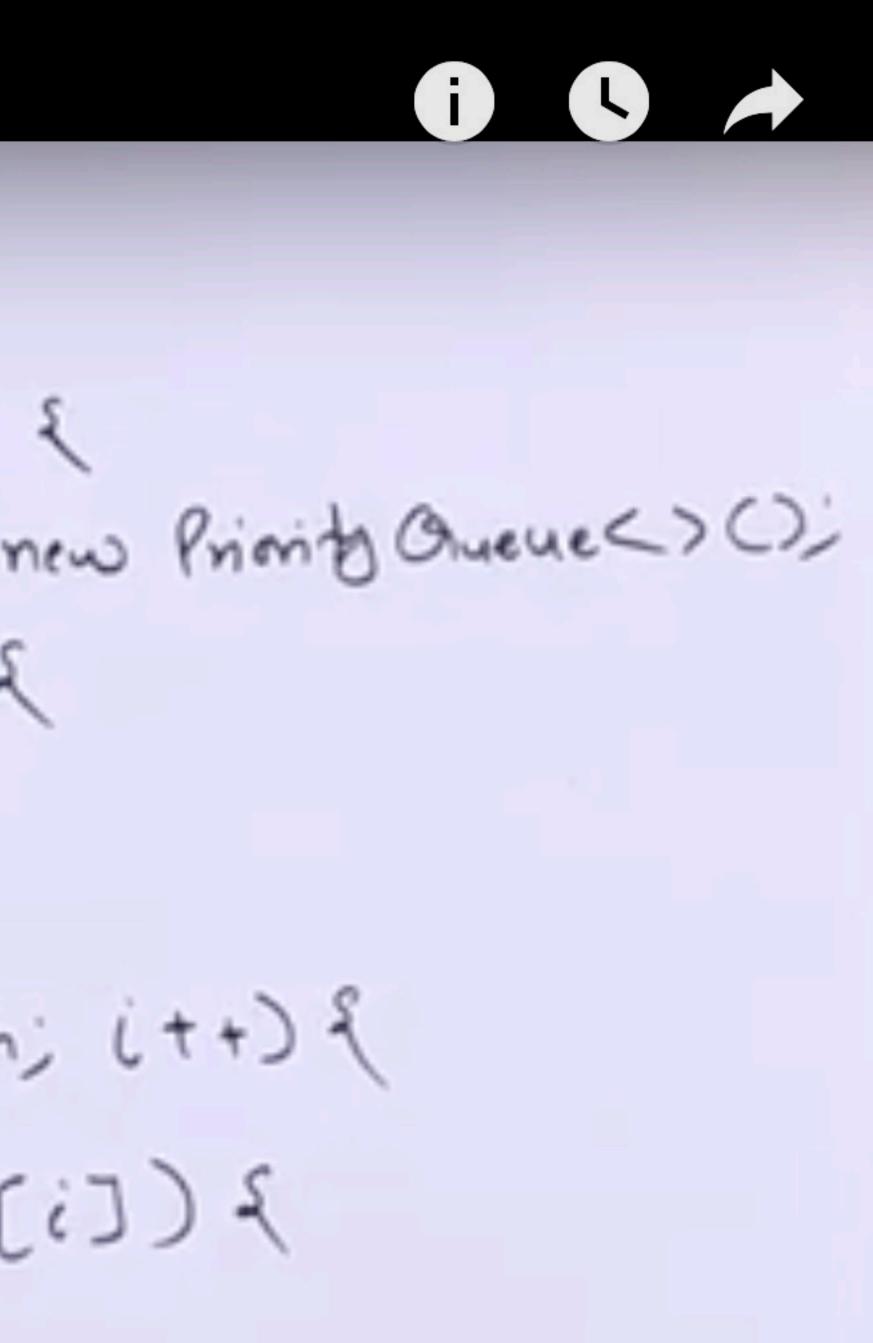
Print Kth largest element in an Array.

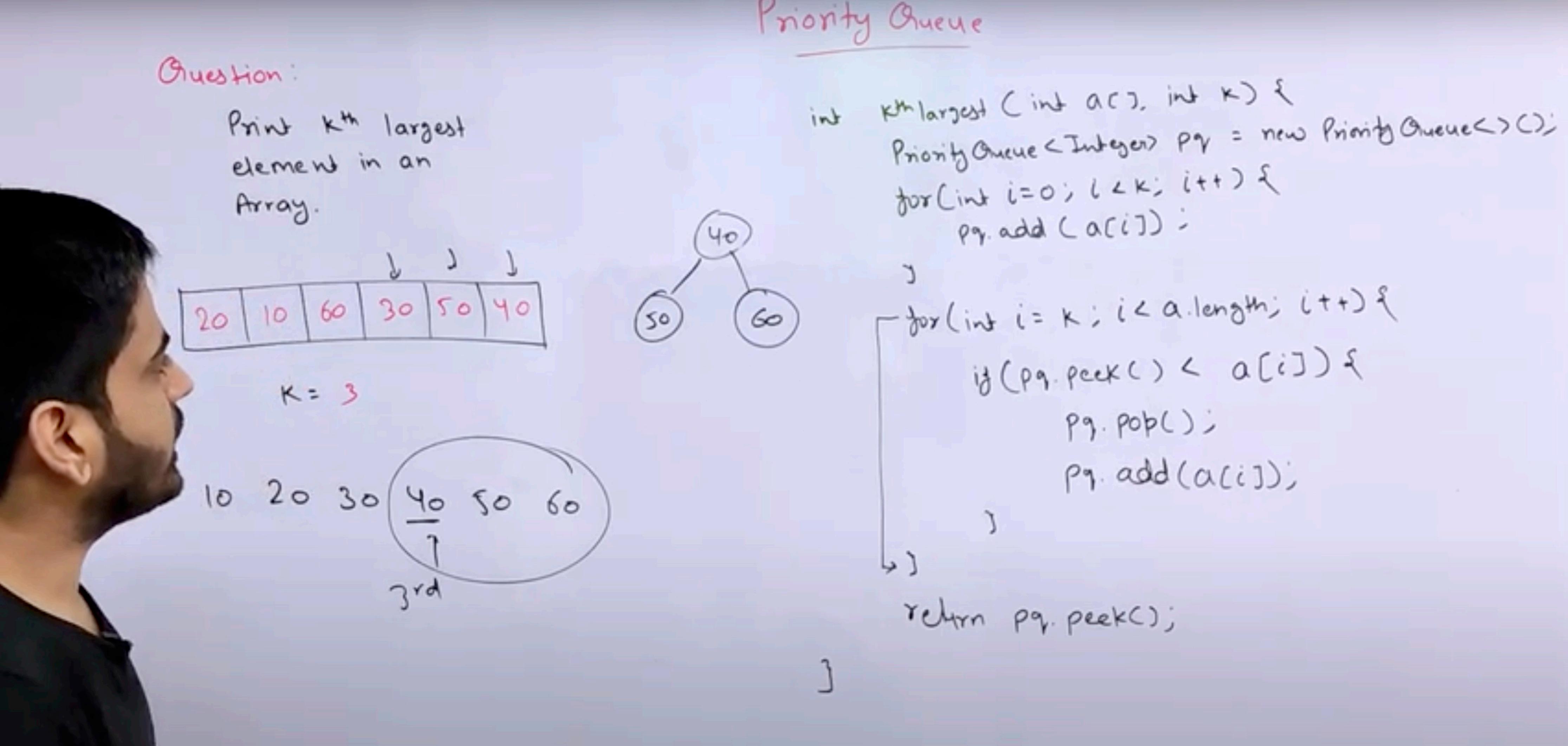




Min heap







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