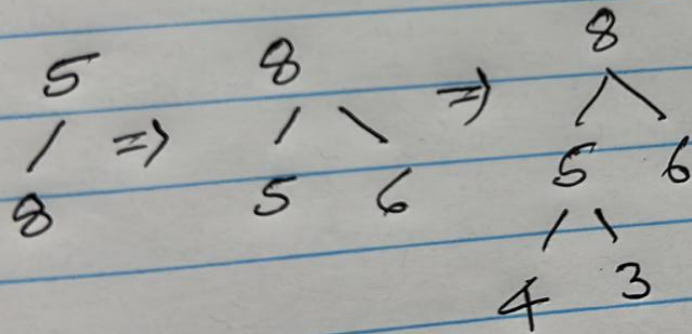


Quiz9

Q1) max Heap

5 8 6 4 3



3 2 2 2 1

maxH = 4

initial array

0	0	0	0	0
---	---	---	---	---

0 1 2 3 4

count array =

0	1	3	1	0
---	---	---	---	---

histo gram:

0	1	4	5	0
---	---	---	---	---

Cycle 1

3 2 2 2 1

count array

0	1	3	①	0
---	---	---	---	---

0 1 2 3 4
- - - 1-1=0

1st element

Sorted array

1	2	2	2	3
---	---	---	---	---

~~after 4th element~~ Cycle 2:

Input

1	2	2	2	3
---	---	---	---	---

Sorted array = Count: 0 1 3 1

1st element: 1 2 2 2 3

Count: 0 1 3 1

output: 1 - - -

repeats final sorted array =

1	2	2	2	3
---	---	---	---	---