

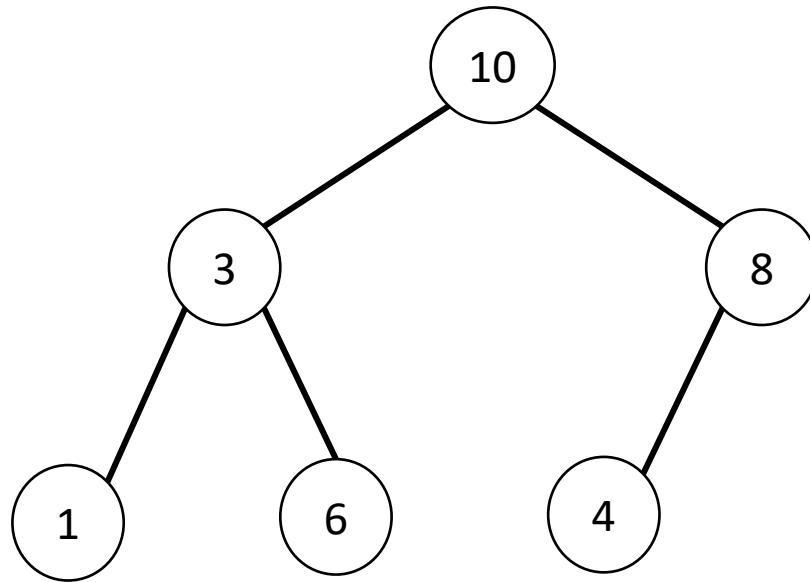
CS210

Discussion

Week 9

E1

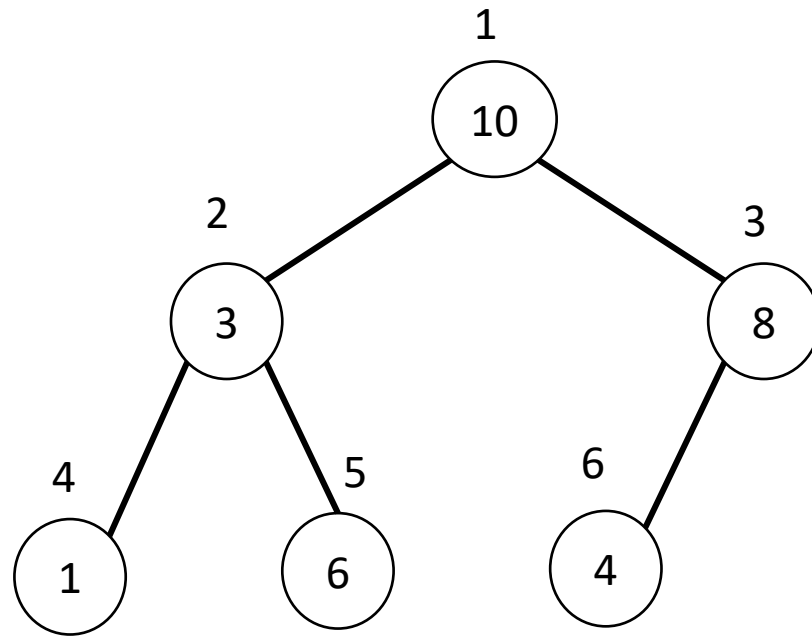
Certify Heap



Is this a Max-Heap?

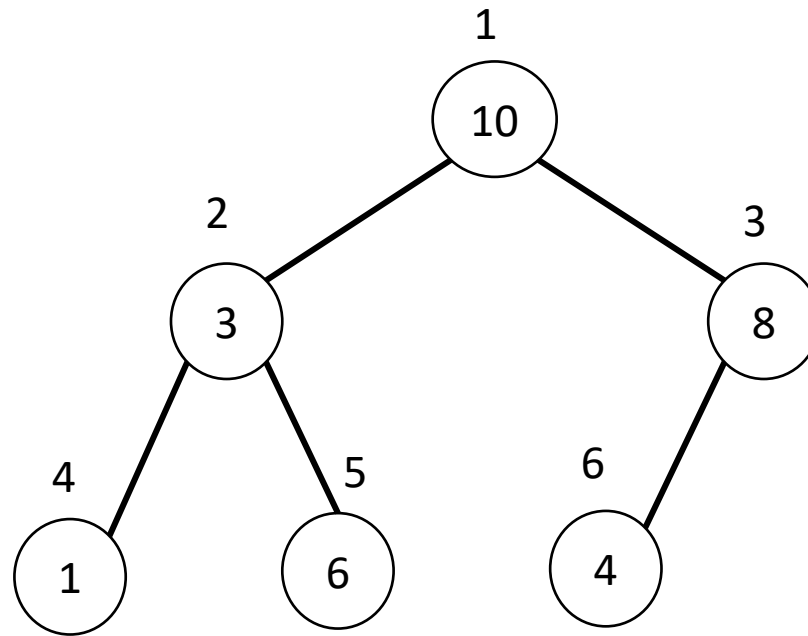
E1

Certify Heap



[-, 10, 3, 8, 1, 6, 4]

Certify Heap



[-, 10, 3, 8, 1, 6, 4]

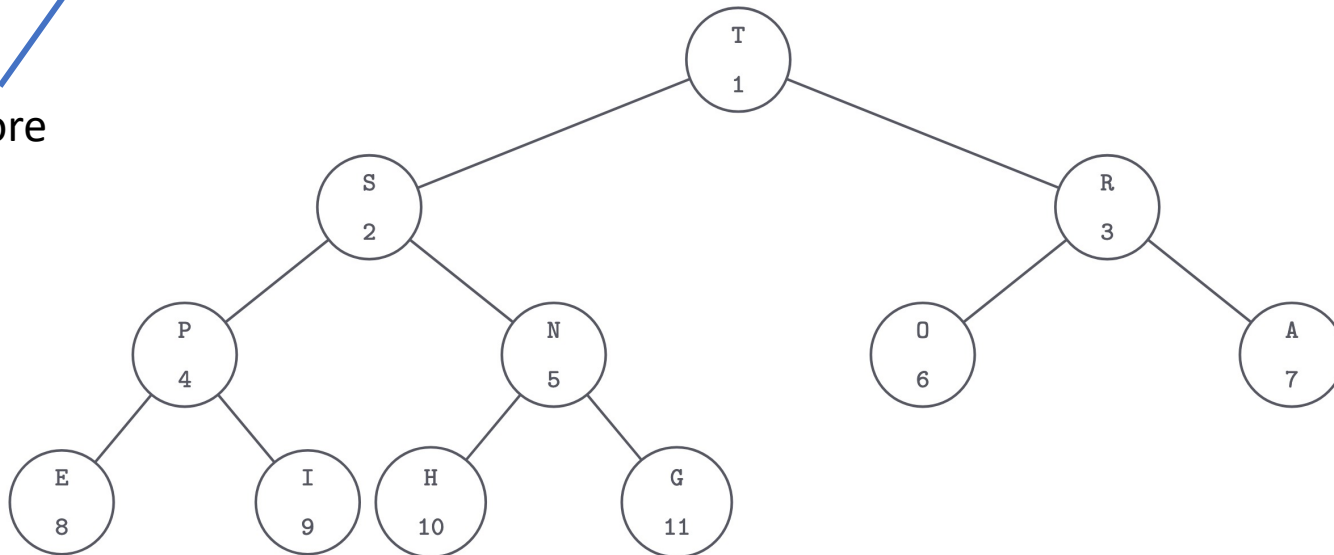
$2 * 2 = 4$, so index 4 & 5 are the children of 2

E1

Certify Heap

a[]											
0	1	2	3	4	5	6	7	8	9	10	11
-	T	S	R	P	N	O	A	E	I	H	G

ignore



```
a[i].compareTo(leftChild);
```

Ramanujan's Taxi

- Finding numbers below n which satisfy a certain property
- Two ways to get the number by adding cubes
- We'll do it an inefficient way first, then a more efficient way in E3

$$1729 = 1^3 + 12^3 = 9^3 + 10^3$$

Questions?