

6/16/25 Intro CP

1) Monday Afternoon Link

- Vector Link H4
- Strings HS (4 out of 6)
- Upsolve from Contest

2) Maps

Set each unique item occurs once, no duplicates

adam → 3	↓	numofsibs["adam"] = 3
bob → 0		numofsibs["bob"] = 0
carol → 1		etc. ↑
david → 2		↑
eddie → 2		VALUE

KEY

map < string, int > numofsibs;

Grandpa Bernie

Iceland → 1982, 1993, 2002, 2016

Greece → 1999, 2000, 2022

etc.

OR

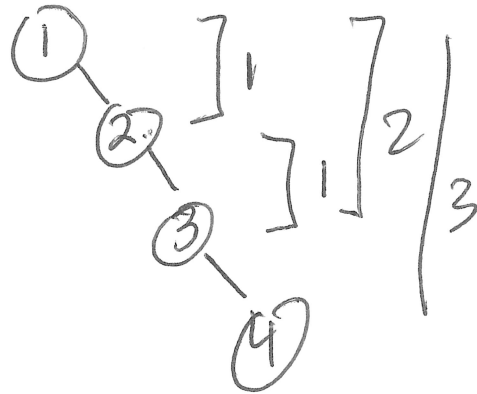
Iceland → 0

Greece → 1

vector

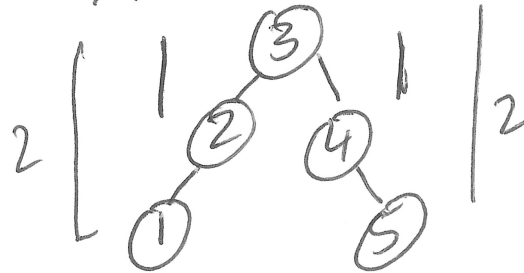
0	→ 1982, 1993, 2002, 2016
1	→ 1999, 2000, 2022

Case 1: ✓✓✓✓
1, 2, 3, 4



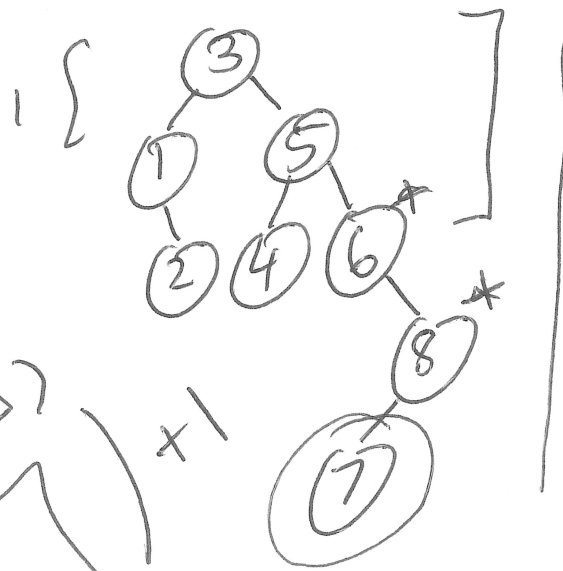
+2+7
0, 1, 3, 6

Case 2: 3, 2, 4, 1, 5



2 2
0, 1, 2, 4, 6

Case 3: 3, 5, 1, 6, 8, 7, 2, 4



0, 1, 2, 4, 7, 11,
13, 15

max
(H [greatest thing 2 me])
H [smallest thing 2 me]) + 1

Code this
in class!

6 → 2
8 → 3
item height/depth
3 → 0 6 → 2
1 → 1 8 → 3
5 → 1 7 → 4
2 → 2
4 → 2