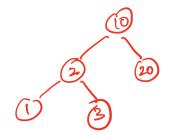
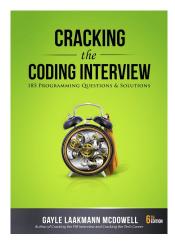
INTERVIEW PRACTICE

Tips for Technical Interviews

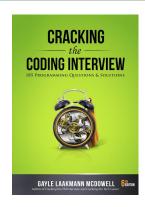
#1: Listen Carefully,
#2: Visualize





Tips for Technical Interviews

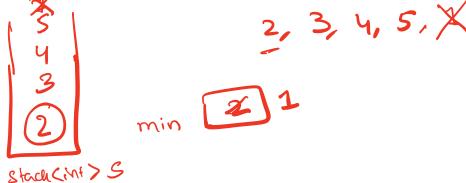
- 1. Listen carefully
- 2. Draw an example
- 3. State the brute force or a partially correct solution
 - then work to get at a better solution
- 4. Optimize:
 - Make time-space tradeoffs to optimize runtime
 - Precompute information: Reorganize the data e.g. by sorting
- 5. Solidify your understanding of your algo before diving into writing code.
- 6. Start coding!

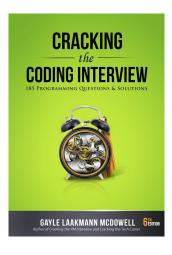


Small group exercise

Write a ADT called minStack that provides the following methods

- push() // inserts an element to the "top" of the minStack
- pop() // removes the last element that was pushed on the stack
- top () // returns the last element that was pushed on the stack
- min()// returns the minimum value of the elements stored so far





J Idea 1: Use the StI stack + variable for the min. Doesn't work for the seq: 2,3,45,1

Idea 2: Use a unsorted vector

push: 0(1)
pop: 0(1)

top : 0(1)

min : 0(n)

Idea 3: Stack + pristify-queul

We'll explore this option and others

next (echin