

COP 3330

3/30/2026

1) TUESDAY - UPDATED GRADE CALC  
(P1-PS, Q1-Q3)

2) TYPED UP NOTES. BEHIND

\* CATCH UP (P8, all typed)

Difference btw TreeSet and HashSet  
you can ONLY make a TreeSet of  
Comparable<T> items.

"Sorted Set"

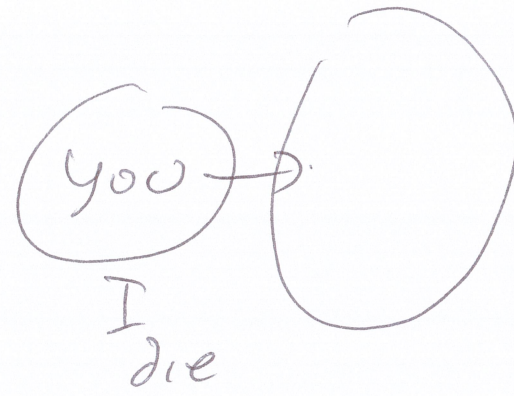
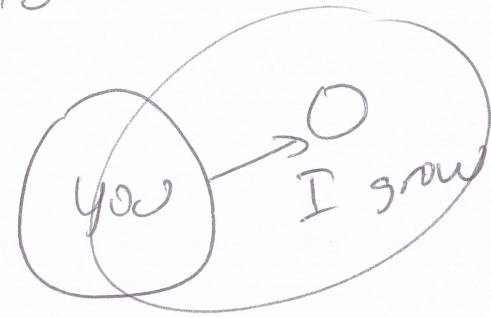
Most Run-Times  $O(\lg n)$  <sup>WORST</sup> CASE

$n \neq$  = # of items stored

Set  $\rightarrow$  no duplicates

# Dot Game Dominator

agor.10



30 29 ✓  
 ↘ 5 ✓  
 30 x

30 5 0

35 1 } add set  
 35 2 }

In dot game, repeats allowed!

obj dot [ int size  
 int 10

num cases

n int init size

$d_1 d_2 d_3 \dots d_n$

1  
 5 4  
 6 1 2 7 3  
 3 5  
 2 6 30