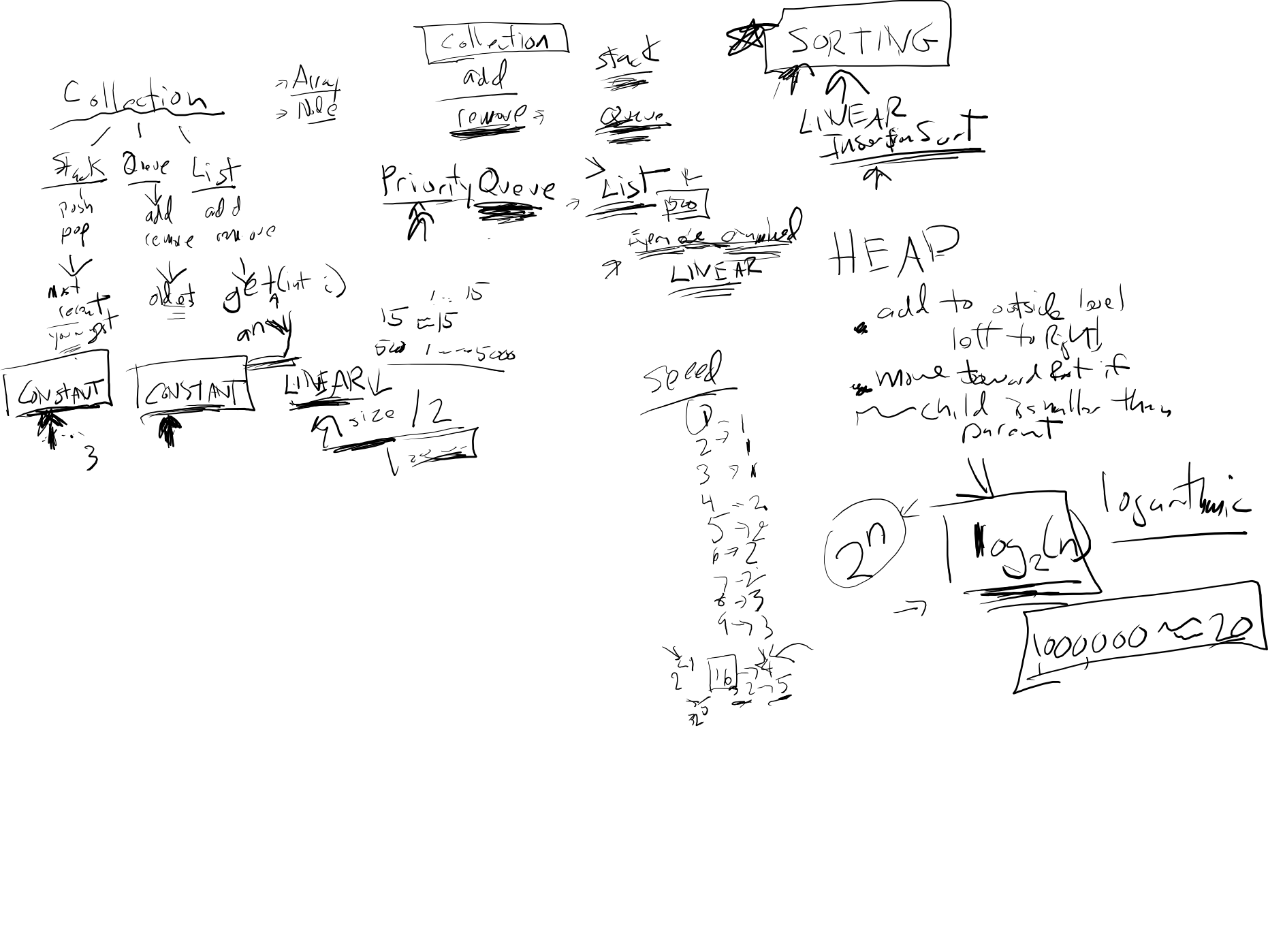
Collection
Array
Node
Stack
Queue
List
push
pop
next
return
you got
add
remove
oldest
add
remove
get(int i)
any
CONSTANT
CONSTANT
LINEAR
size / 2
Collection
add
remove
Stack
Queue
PriorityQueue
List
sorted
expensive
LINEAR
SORTING
LINEAR
Insertion Sort
HEAP
add to outside level
left to Right
move toward root if
child is smaller than
parent
seed
1
2 → 1
3 → 1
4 → 2
5 → 2
6 → 2
7 → 2
8 → 3
9 → 3
16
Logarithmic
2^n
$\log_2(n)$
1000000 ~= 20