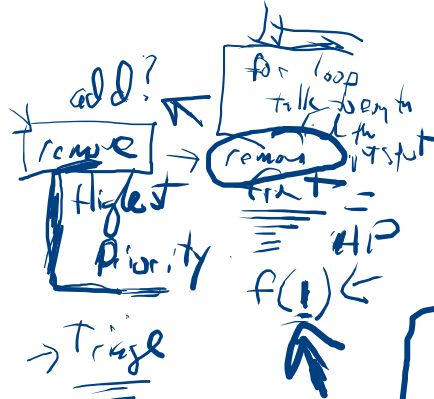


Collection

- Stack
  - push - add
  - pop - remove
  - LIFO
- Queue
  - add
  - remove
  - FIFO
- Linear Data Structures
  - remove(5) - whatever you want
  - time  $\rightarrow f(\text{size})$



remove  
 $\rightarrow$  Search for highest priority

## SORTING

### Insertion Sort

- Things are sorted now
- Item added
- fix it
- so things are still sorted

level  $\leq$  size?

0	1	0
1	3	1
2	7	2
3	15	3
	31	4
	63	5

$f(\log_2(\text{size}))$

## PRIORITY QUEUE

fully sorted?  
 partially sorted?

Logarithmic