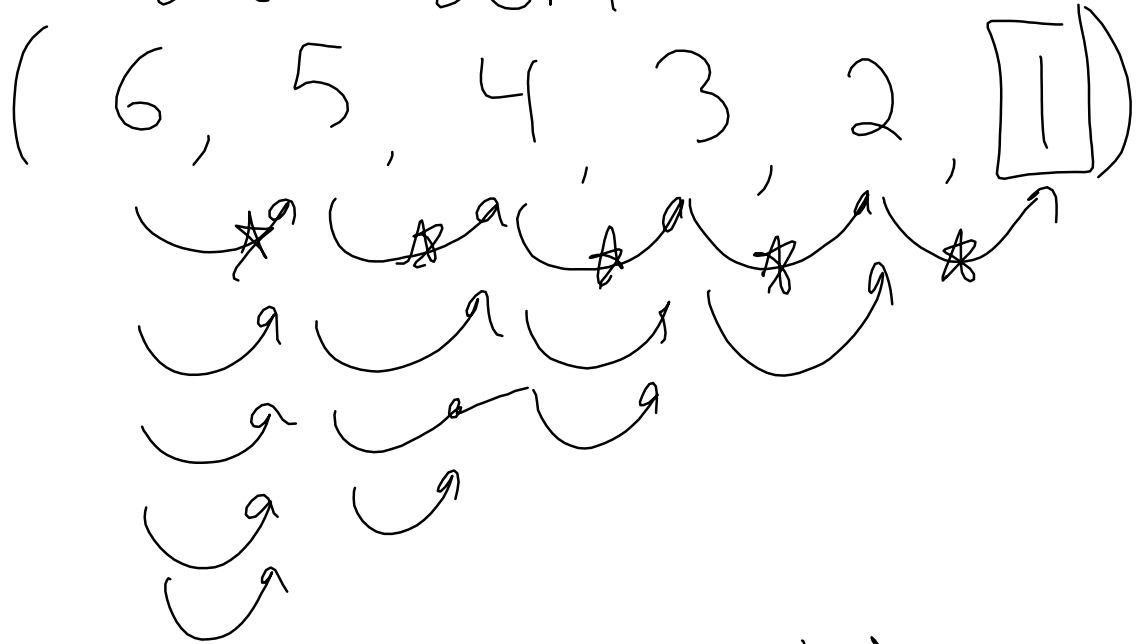


Yes, this is CS107.

---

# Bubble Sort



( unsorted | sorted in place )

# Insertion Sort

( 6 | 5, 4, 3, 2, 1 )

5 6 |

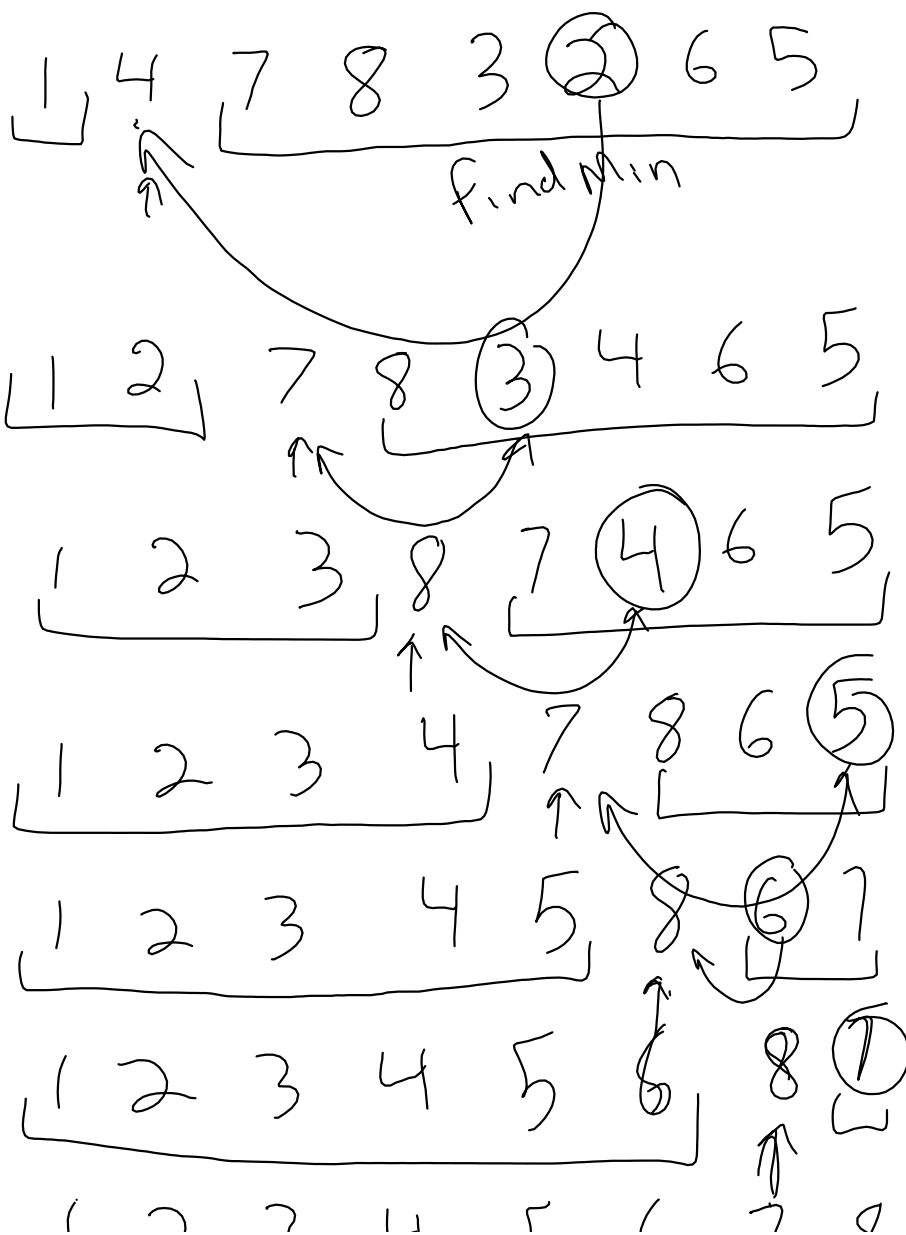
4 5 6 |

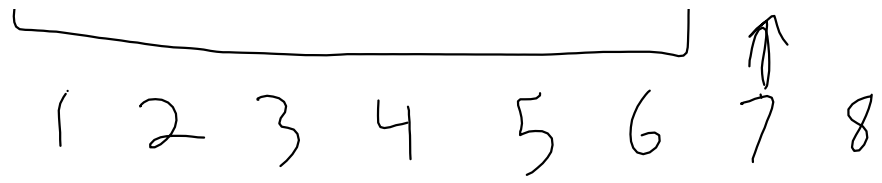
3 4 5 6 |

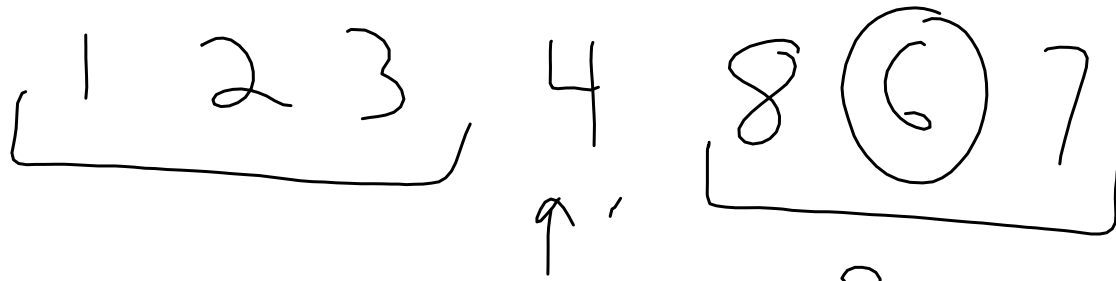
( sorted | unsorted )  
not in place

# Selection Sort

- find Min (7 4 18 32 65)
- put it in place
- find Min in the rest of the vector







swap?

$4 < 6$ , no

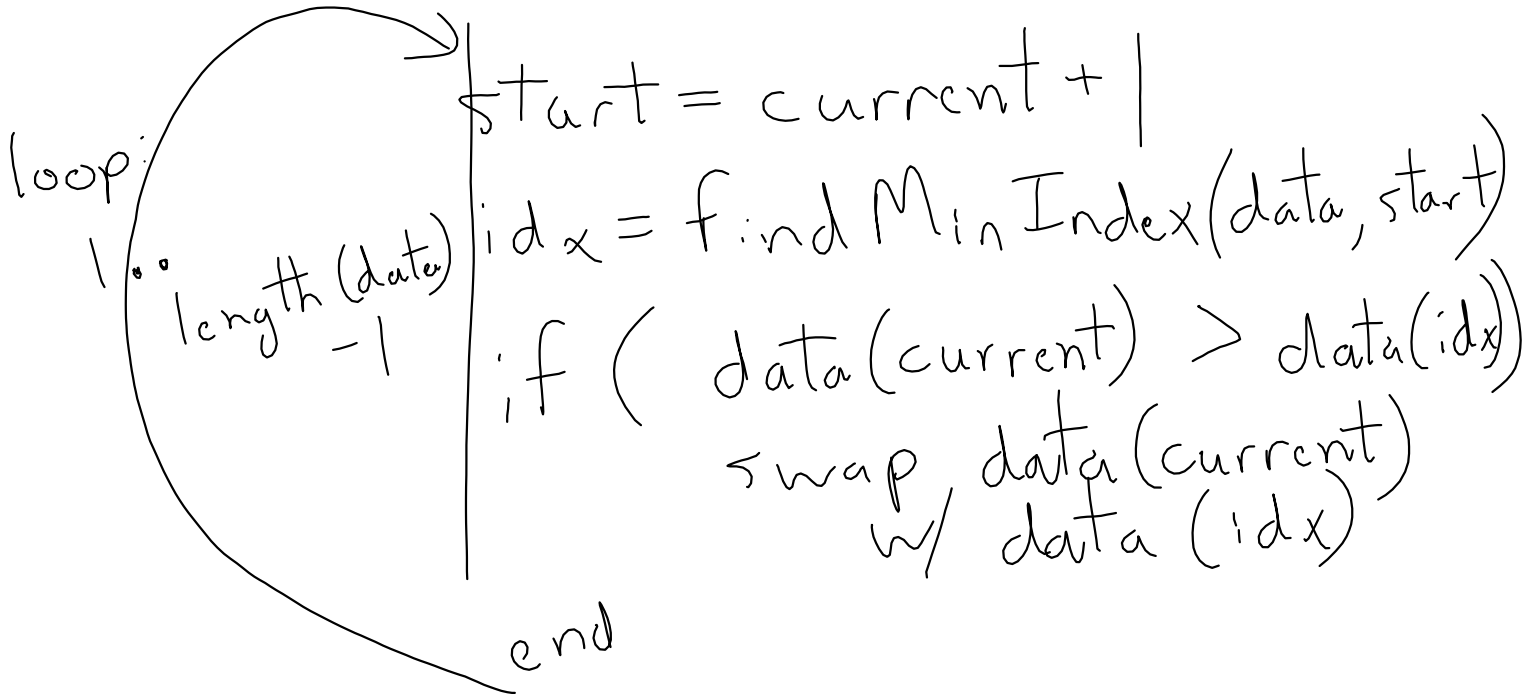
# Selection Sort Outline

~~min = findMin?~~

idx = findMinIndex (data, start)

find the index of the  
minimum value in data  
after the index "start"

current = 1



[http://cs.gettysburg.edu/  
~ilinkin/courses/Fall-2016/cs107/assignments/  
a8.html](http://cs.gettysburg.edu/~ilinkin/courses/Fall-2016/cs107/assignments/a8.html)

Friday, October 28, 2016  
10:39 AM



Count swaps and comparisons  
(important operations)  
generalize for size of input