**Max and Min in a Unsorted Array**

In this problem, we will look for smallest and largest integer from a list of unsorted integers. The code should run in O(n) time. Do not use Python's inbuilt functions to find min and max.

**Bonus Challenge:** Is it possible to find the max and min in a single traversal?

**def** **get\_min\_max**(ints):

"""

Return a tuple(min, max) out of list of unsorted integers.

Args:

ints(list): list of integers containing one or more integers

"""

**pass**

*## Example Test Case of Ten Integers*

**import** random

l = [i **for** i **in** range(0, 10)] *# a list containing 0 - 9*

random.shuffle(l)

**print** ("Pass" **if** ((0, 9) == get\_min\_max(l)) **else** "Fail")

Sorting usually requires O(n log n) time Can you come up with a O(n) algorithm (i.e., linear time)?