Note Tit Can anything be done about worst case 10/75/2007

Recall that regardless of the "average" case, that if we expect mostly-sorted inputs, then the runtime with be bad.

Can we address the issue of a sorted list leading to n² runtime with the partitioning algorithm we are using?

- · What if we randomly shuffled the data, then sorted?
- · What if we randomly select the pivot value?

What if we then see whether the pivot is good and, if not choose another random pivot?

· What if we did MoMs Median finding in the Partition Call?