It's the end of the semester and every professor decided they would assign you final projects - I know, thoughtful. You're currently drowning in so much work that even the thought of Thanksgiving Break is not enough to give you the extra energy boost you need. You've barely slept, have been surviving on ramen and chips, and average a total of 200 steps per day. You decide to write a to-do list for every day of the following week. For the sake of your sanity, you promise yourself to finish everything you've planned out for that *\*specific\** day - nothing more, nothing less.

1. If the order in which you complete tasks in a specific day does not matter, what data type should you use to represent your task list for Monday?
2. Itemset
3. Vector
4. Sequence
5. Time series
6. If the order in which you complete tasks in a specific day does not matter, what data type should you use to represent your compilated to-do list for the week (all the tasks you need to complete for the week)?
7. Itemset
8. Vector
9. Sequence
10. Time series
11. If you were to calculate similarity between your Monday and Tuesday tasks, what method(s) could you use?

1. Jaccard Similarity

2. Edit Distance

3. Dynamic Time Warping

4. Euclidean Distance

5. Cosine Similarity

**Answers**

A. Itemset - order and repeated occurrences do not matter

B. Sequence - order does matter (you have to complete Monday's tasks, before Tuesday's tasks) but absolute position does not matter (the order in which you complete tasks in a specific day does not matter)

C. Jaccard similarity - because we are comparing two itemsets the only similarity-based itemset mining tool listed is Jaccard Similarity.