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CS5402

Homework 1

Task 1

1. Discrete, ordinal
2. Continuous, ratio
3. Discrete, ratio
4. Discrete, nominal
5. Continuous, ratio
6. Discrete, ordinal
7. Continuous, interval

Task 2

1. Euclidean distance would be better to use for grouping the boxes based on length to width ratio. This is because the square root of the squared difference of length and width values (the definition of Euclidean distance applied to this case) would always result in 0 if the box was square, yet would be greater as the ratio of length to the width (or vice-versa) increased.
2. Correlation

Task 3