Compare Kruskal’s algorithm to Prim’s

Algorithm and Data Structure II - Spring 2020 - Bonus Group Assignment

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1. How are they different?

2. How are they similar?

3. What similarities and differences seem significant?

4. What interpretation or conclusion is suggested by the significant similarities and differences?

Both Prim’s and Kruskal’s algorithm finds the Minimum Spanning Tree. The most important idea of Kruskal’s algorithm to Prim’s is efficiency in their field. So, Choose the Kruskal algorithm is found to run faster in sparse graphs. Whereas, Prim's algorithm is found to run faster in dense graphs with more number of edges than vertices.

5. Write your conclusions in your own words