Lab 6 (26 Feb 2018)

Problem 1 : Implement the Disjoint-Set Union Data Structure (with the union-by-rank and path-compression heuristics). You can create separate class for the DS and implement the three operations i.e. **`makeset`**, **`findset`** and **`union`** as three class methods. You could implement a separate method **`printsets`** that prints the collection of disjoint sets and the elements within. (This could be useful in debugging and making sure your code is working fine).

Problem 2: Implement Kruskal's MST algorithm on an undirected graph. Use the data structure your have implemented in problem 1 in your code here. Use modules to import your code. For e.g. for Python, you can refer to https://www.programiz.com/python-programming/modules or https://docs.python.org/2/tutorial/modules.html on how to build/import modules. Test your code on the example discussed in class (and other examples designed by you!)