

Assignment 2

Task 1

Define 3 functions based on the disjoint set properties

- MakeSet(x)** : Creates a new set S_x where x is its only element (and therefore it is the representative of the set).
- Union (x,y)** : Replaces S_x, S_y by $S_x \cup S_y$. One of the elements becomes the representative of the new set.
- Find(x)** : Returns the representative of the set containing x .

Provide a short description of the functions and how they work.

Task 2

Use Kruskal's Algorithm to find the MST of the following graph. (show the algorithm and the simulation)

