

```
1  /**
2   * This class was referenced and taken from our
   * textbook / lecture slides week 9/10. It is used in
   * the MST function
3   * to find the minimum spanning on tree on the
   * largest module found.
4   */
5  public class DisjSets {
6      public int [] s;
7
8      public DisjSets(int numElements){
9          s = new int [numElements];
10         for (int i=0;i<s.length;i++){
11             s[i] = -1;
12         }
13     }
14
15     public void union(int root1, int root2){
16         s[root2] = root1;
17     }
18     public int find(int x){
19         if (s[x] < 0){
20             return x;
21         }
22         else {
23             return find (s[x]);
24         }
25     }
26 }
27
```