Disjoint Sets Find

```
1 int DisjointSets::find(int i) {
2   if ( s[i] < 0 ) { return i; }
3   else { return _find( s[i] ); }
4 }</pre>
```

```
void DisjointSets::unionBySize(int root1, int root2) {
 2
     int newSize = arr [root1] + arr [root2];
 4
     // If arr [root1] is less than (more negative), it is the larger set;
     // we union the smaller set, root2, with root1.
     if ( arr [root1] < arr [root2] ) {</pre>
 7
       arr [root2] = root1;
       arr [root1] = newSize;
10
11
     // Otherwise, do the opposite:
12
     else {
13
       arr [root1] = root2;
       arr [root2] = newSize;
14
15
16
```