Disjoint Sets Find and Union

```
int DisjointSets::find(int i) {
  if (arr_[i] < 0) { return i; }
  else { return _find(arr_[i]); }
}</pre>
```

```
void DisjointSets::unionBySize(int root1, int root2) {
     int newSize = arr [root1] + arr [root2];
     // 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>
       arr [root2] = root1;
       arr [root1] = newSize;
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     // Otherwise, do the opposite:
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     else {
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       arr [root1] = root2;
       arr [root2] = newSize;
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```