```
1 #include "../bits/stdc++.h" 2 // 各連結成分内の要素数が取得できる UnionFind
 3 // verified: http://judge.u-aizu.ac.jp/onlinejudge/review.jsp?rid=3380552
 4 class UnionFind
 5 {
        std::vector<int> data;
 6
 8
      public:
        UnionFind(int size) : data(size, -1) {}
9
10
        bool unite(int x, int y)
11
            x = root(x);
12
            y = root(y);
if (x != y)
13
14
15
            {
16
                 if \; (data[y] \; \langle \; data[x])
                 std::swap(x, y);
data[x] += data[y];
data[y] = x;
17
18
19
20
21
             return x != y;
22
23
        bool find(int x, int y)
24
        {
25
             return root(x) == root(y);
26
27
        int root(int x)
28
        {
             return data[x] < 0 ? x : data[x] = root(data[x]);
29
30
31
        int size(int x)
32
        {
33
             return -data[root(x)];
34
        }
35 };
36
```

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