```
struct subset
    int parent, rank;
};
subset subs[1000];
int find(subset subsets[], int i)
    if (subsets[i].parent != i)
        subsets[i].parent = find(subsets, subsets[i].parent);
    return subsets[i].parent;
void Union(subset subsets[], int x, int y)
    int xroot = find(subsets, x);
    int yroot = find(subsets, y);
    if (subsets[xroot].rank < subsets[yroot].rank)</pre>
    {
        subsets[xroot].parent = yroot;
    else if (subsets[xroot].rank > subsets[yroot].rank)
        subsets[yroot].parent = xroot;
    }
    else
        subsets[yroot].parent = xroot;
        subsets[xroot].rank++;
    }
```