990. Satisfiability of Equality Equations

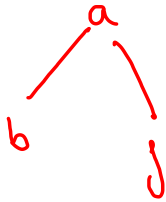$$a == b \qquad b\ != e \qquad c == d \qquad c\ != a \qquad e == k \qquad f == b$$

equalities: create sets
(apply DSU)

inequalities: verification

856 · Sentence Similarity

Algorithms   Easy   Accepted Rate 45%   ☆

symmetric ✓
transitive ✗

pairs: [great, fine]   [great, good]   [fine : nice]

[acting, drama]   [talent , skill]

great → fine, good
fine → great, nice
good → great
nice → fine
acting → drama
drama → acting
talent → skills
skill → talent

great   drama   talent
nice   acting   skills

855 · Sentence Similarity II ✓

pairs: [great, fine]   [great, good]   [fine : nice]

[acting, drama]   [talent, skill]   [good : fine]

great   drama   talent
nice   acting   skills

great
 / \   \
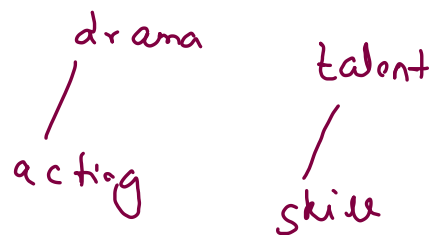fine good   nice

acting
 /
drama

talent
 /
skill

pairs: [great, fine]   [great, good]   [fine : nice]

[acting, drama]   [talent , skill]   [good : fine]

parent :

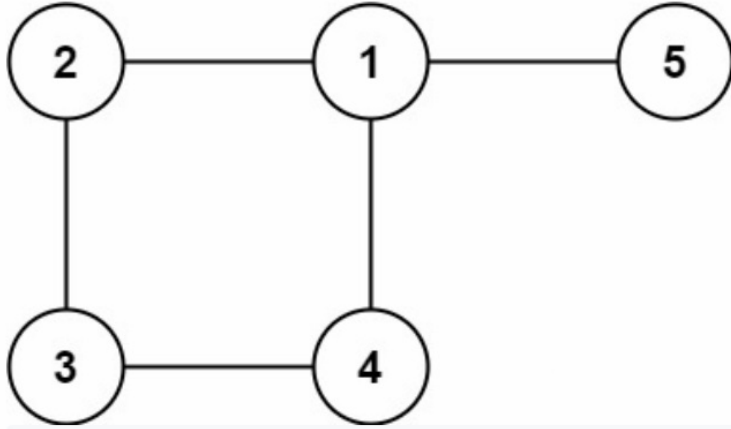great → fine
fine → fine
good → fine
nice → fine
acting → drama
drama → drama
talent → talent
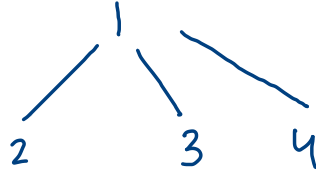skill → talent

parent : HM < string, string>
rank : HM < string, int>

great   drama   talent
nice   acting skills

684. Redundant Connection
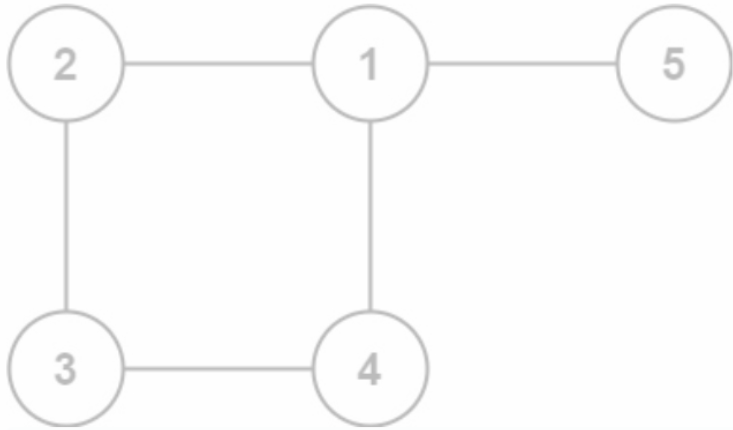

Input: edges = [[1,2],[2,3],[3,4],[1,4],[1,5]]

Output: [1,4]

problem statement: return the edge
which has introduced
cycle in this graph.

Input: edges = [[1,2],[2,3],[3,4],[1,4],[1,5]]
Output: [1,4]