Please use this Google doc to code during your interview. To free your hands for coding, we recommend that you use a headset or a phone with speaker option.

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Best,
Google Staffing
Example input:
input = []
input.append(("animal", "mammal"))
input.append(("animal", "bird"))
input.append(("lifeform", "animal"))
input.append(("cat", "lion"))
input.append(("mammal", "cat"))
input.append(("animal", "fish"))
printTree(input)
Expected output:
 line 1: lifeform
 line 2: animal
 line 3:
             mammal
 line 4:
             cat
 line 5:
                 lion
 line 6:
             bird
 line 7:
             fish
# build the tree, key=parent, value=list of children
import collections
def print_node(tree, node, level=0):
      print '\t'*level,
      print node
      for child in tree[node]:
            print_node(tree, child, level + 1)
tree = collections.defaultdict(list)
children = set()
for parent, child in input:
      tree[parent].append(child)
      children.add(child)
for node in tree:
      if node not in children:
            print node(tree, node)
```