Discussion 7: The Disjoint Set ADT

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1. Show the result of the following sequence of instructions: union(1,2), union(3,4), union(3,5), union(1,7), union(3,6), union(8,9), union(1,8), union(3,1) are:
a. Performed arbitrarily.
b. Performed by height.
c. Performed by size.

2. For each of the trees in the previous execise, perform a find with path compression on the deepest node.