

Mini Homework 7

1.
 - Part A: if `determine(y, reverse(type)) = False`: return `False`
 - Part B: return `False`
 - Part C: return `True`
2.
 - Correctness:
 - Part A: If `type[y]` is unknown, then `y` should be assigned the reverse of `type[x]` and then we check to see if the assignment is valid.
 - Part B: If at some time, `type[y]` is identical to `type[x]`, then this violates that an edge should connect two students of different.
 - Part C: If it passes all of the test, then all of the assignments are correct.
 - Time complexity: The algorithm traverses the graph with DFS. Every edge and vertex is traversed exactly once.