W10 exercises: chase test for lossless decomposition

1. Suppose we have a relation on attributes $NFLCG$ with these FDs:

$$N \to FL, NC \to G$$

   (a) Suppose we decompose into relations NF, FLC and LCG. Use the Chase Test to determine whether this is a lossless-join decomposition.

   (b) Suppose we decompose into relations NF, NL and NCG. Use the Chase Test to determine whether this is a lossless-join decomposition.

   (c) Suppose we decompose into relations NFC, and NLG. Use the Chase Test to determine whether this is a lossless-join decomposition.