The conjecture that an arrow "1:A→F" exists such that this diagram commutes is the conjecture that a one-dimensional system of bricks, glue, and lifeline will always be ductile.

The commutativity of this diagram is a "check" on the meanings of the arrows: given a threesome (b,g,L) of building blocks, serving as bricks, glue, and lifeline, this diagram shows two different paths L→U to get a building block. Either way, one obtains the same building block, namely the lifeline L.

The conjecture that an arrow "5:B→C" exists such that this diagram commutes is the conjecture that a one-dimensional system of bricks and glue without lifeline will always be brittle.

The commutativity of this diagram is a "check" on the meanings of the arrows: given a pair (b,g) of building blocks, serving as bricks and glue, this diagram shows two different paths N→U to get a building block. Either way, one obtains the same building block, namely the brick b.

The commutativity of this diagram is a "check" on the meanings of the arrows: given a pair (B1,B2) of building blocks, such that B2 can connect two instances of B1, this diagram shows two different paths P→V to get a real number. Either way, one obtains the same real number, namely the failure extension of B1.