

$D = p$ with p prime: $A \xrightarrow{p} B$

$D = p^2$ with p an odd prime ($p = 3, 5$): $A \xrightarrow{p} B \xrightarrow{p} C$

$D = p^3 = 27$: $A \xrightarrow{p} B \xrightarrow{p} C \xrightarrow{p} D$

$D = pq$ with p, q distinct primes ($(p, q) = (2, 3), (2, 5), (2, 7), (3, 5), (3, 7)$):

