$$\frac{c+x}{cx} = \frac{1}{c} + \frac{c}{c+x}$$

$$N(U) = cx(c+x)$$

$$(c+x)(c+x) = (c+x)x + cx(c+x)$$

$$(c+x)^2 = (cx+x^2) + c^2x$$

$$c^2 + 2cx + x^2 = cx + x^2 + c^2x$$

$$cx + c^2x = -c^2$$

$$c^2x - cx = c^2$$

$$x = \frac{c^2}{c^2 - c} = \frac{c^2}{c(c-1)} = \frac{c}{c-1}.$$