





-













































































































































Total new Reserves in all banks













Factor out 0.1*3,000

0.1*3,000 (1

+

+ 0.9*0.9

+ 0.9*0.9*0.9

+ 0.9*0.9*0.9*0.9

+ 0.9*0.9*0.9*0.9

• • • • 1

+

+0.9

0.9

_

 $+0.9^{4}$

+0.9

 $+0.9^6$

 $\Delta R = 0.1*3,000$

A 3,000b injection of new money into the banking system, increase total

Reserves by 3,000b









































































































Banks must keep

10% of Deposits in

Reserves













0.1*3,000 (1

 $\Delta R =$

3.000

 ΔR

3.000



 ΛR

3 000



Banks must keep

10% of Deposits in

Reserves

Banks must keep

10% of Deposits in

Reserves

Let's calculate now Total Reserves generated by the new money: $\triangle R$

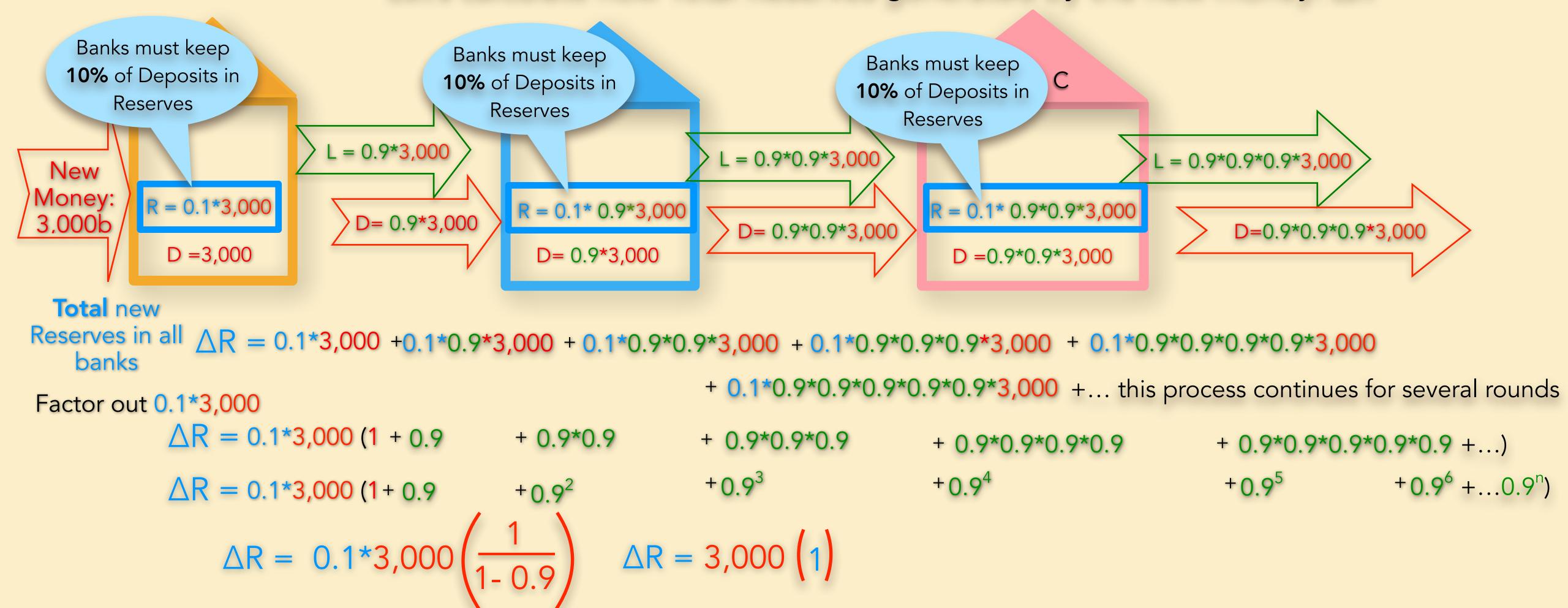
D = 0.9*3,000

D = 0.9*0.9*3,000

D=0.9*0.9*0.9*3,000

+... this process continues for several rounds

Let's calculate now Total Reserves generated by the new money: ΔR



 $\Delta R = 3.000$

 $\Delta R = 3,000$

