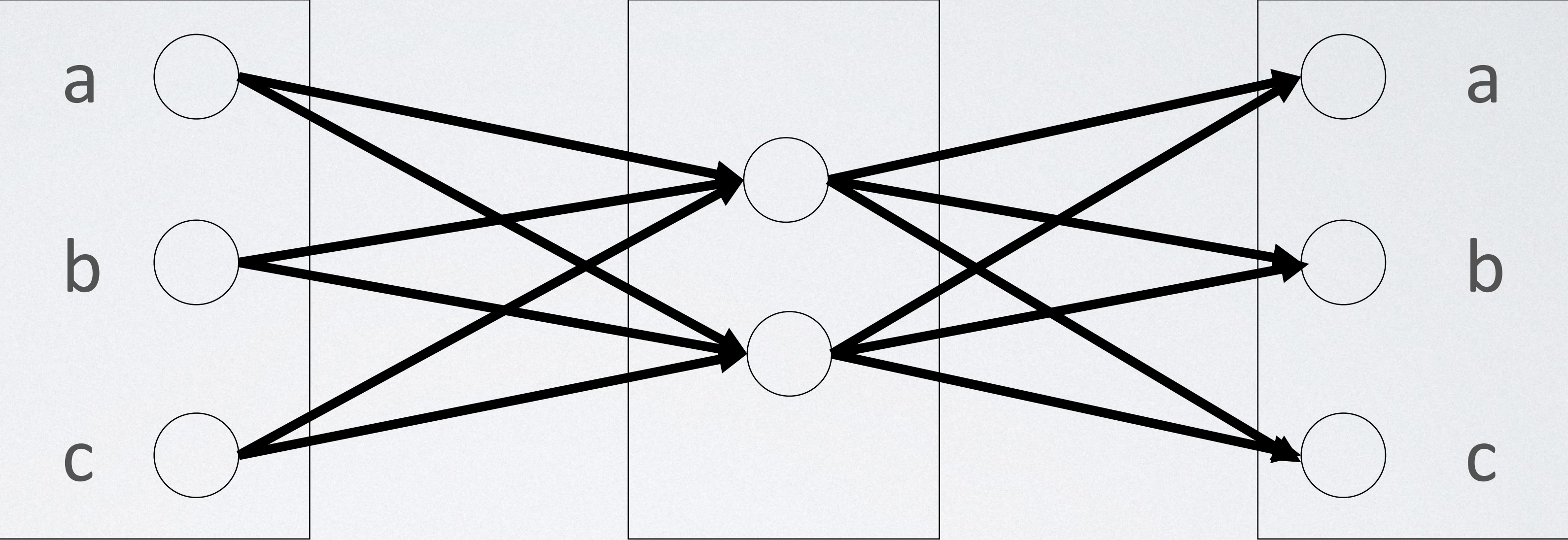
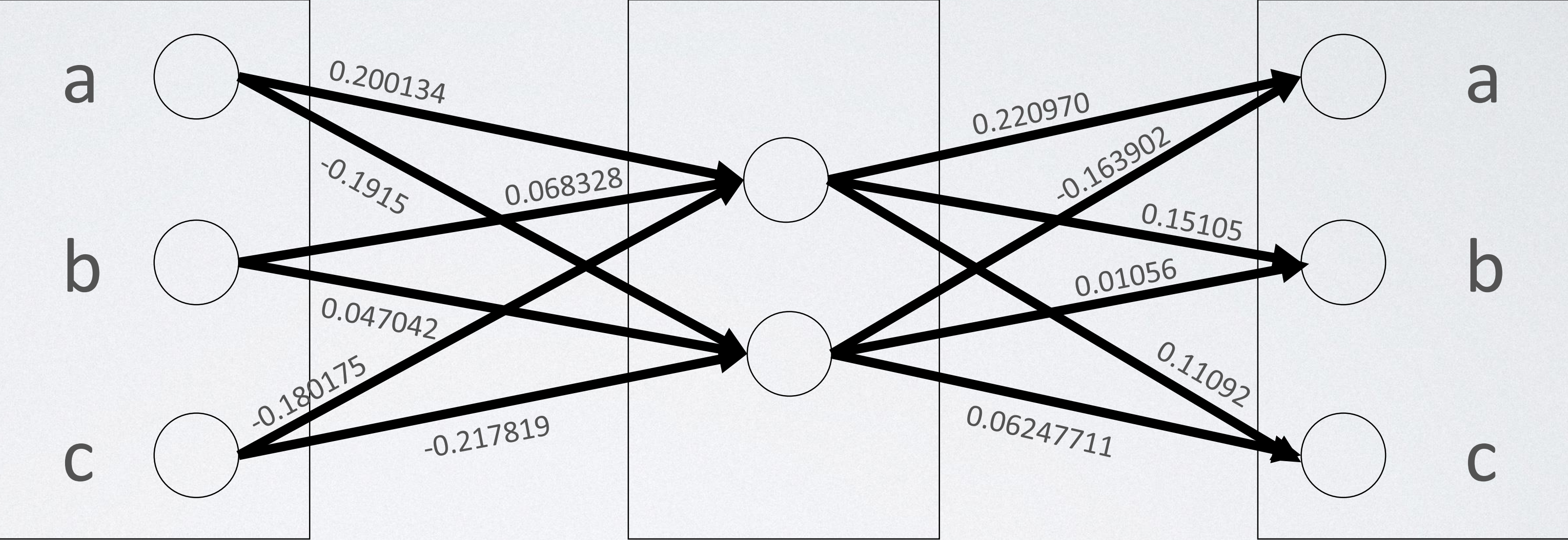


Word2Vec

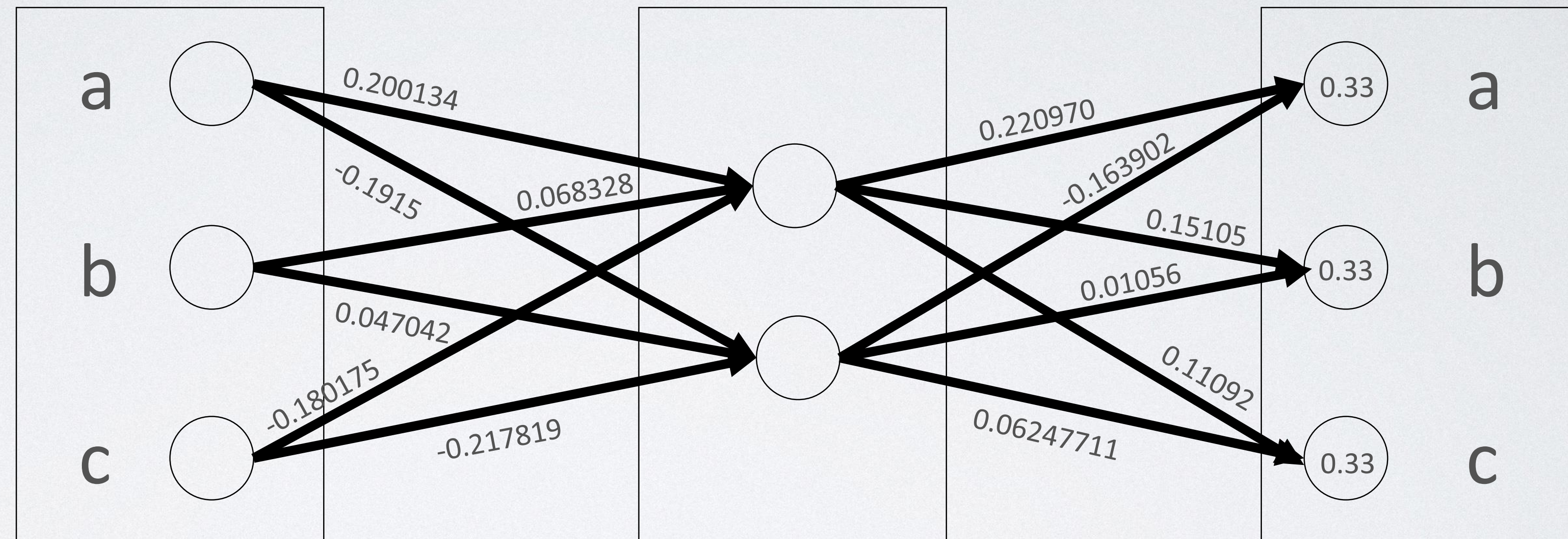






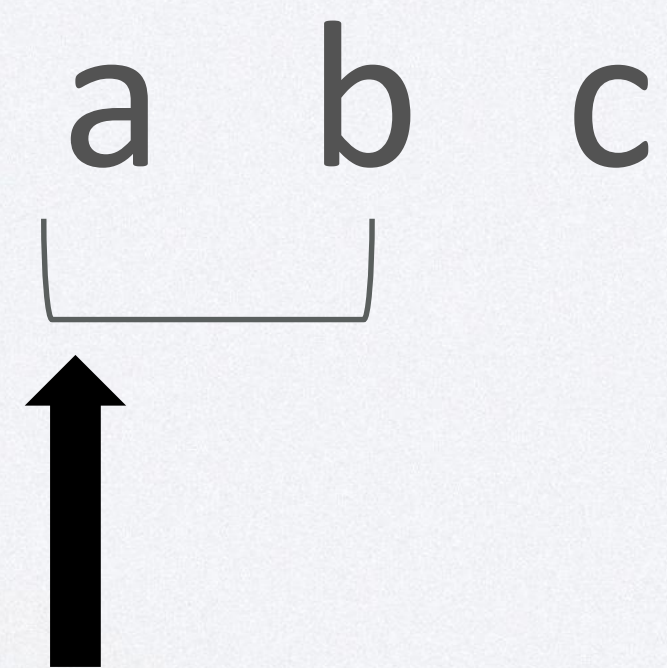
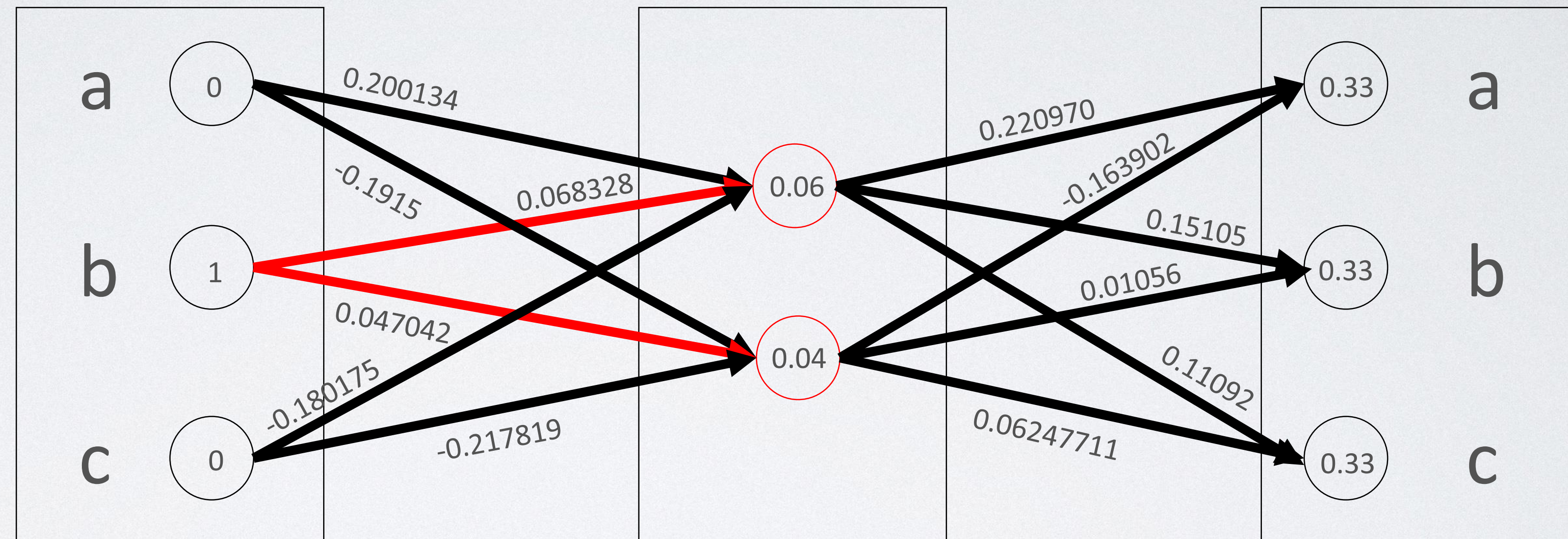






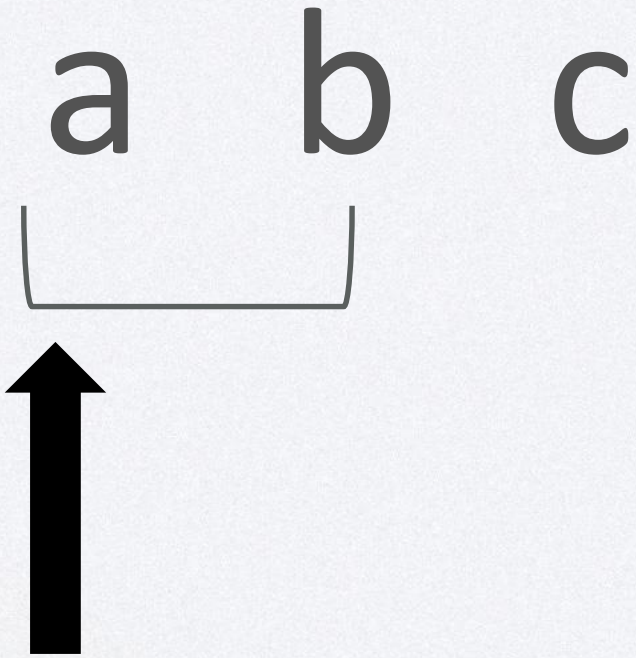
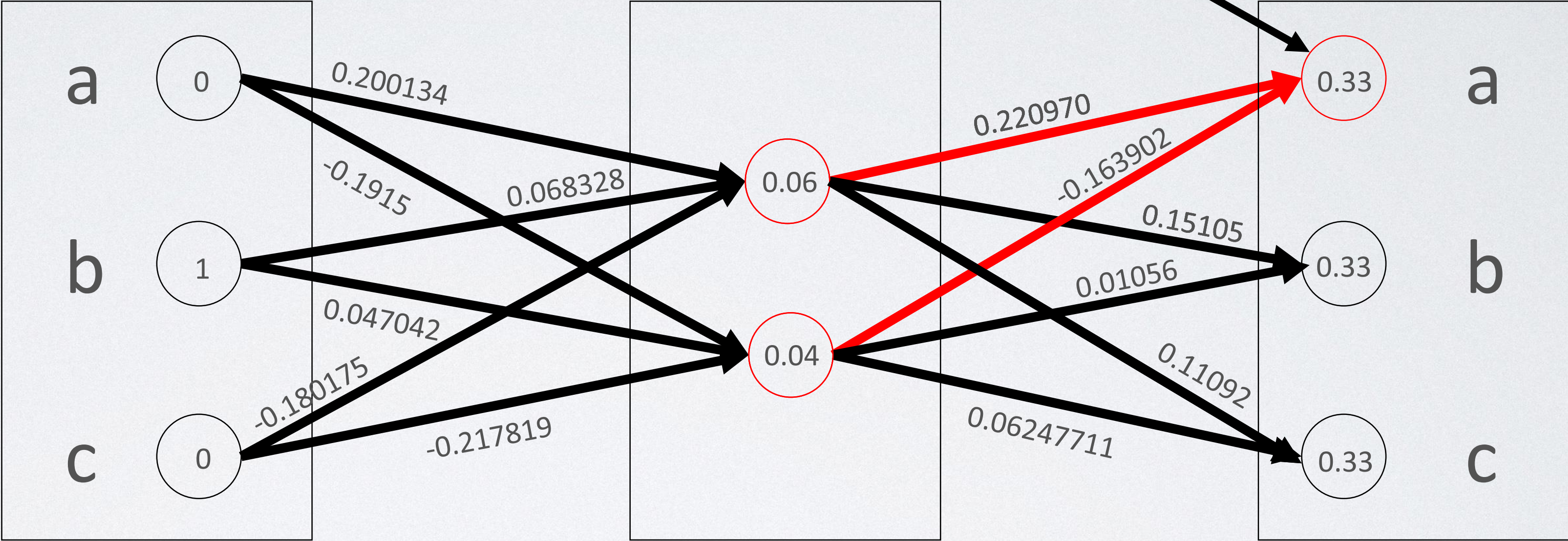
$$p(w_j|w_I) = \frac{1}{3}$$



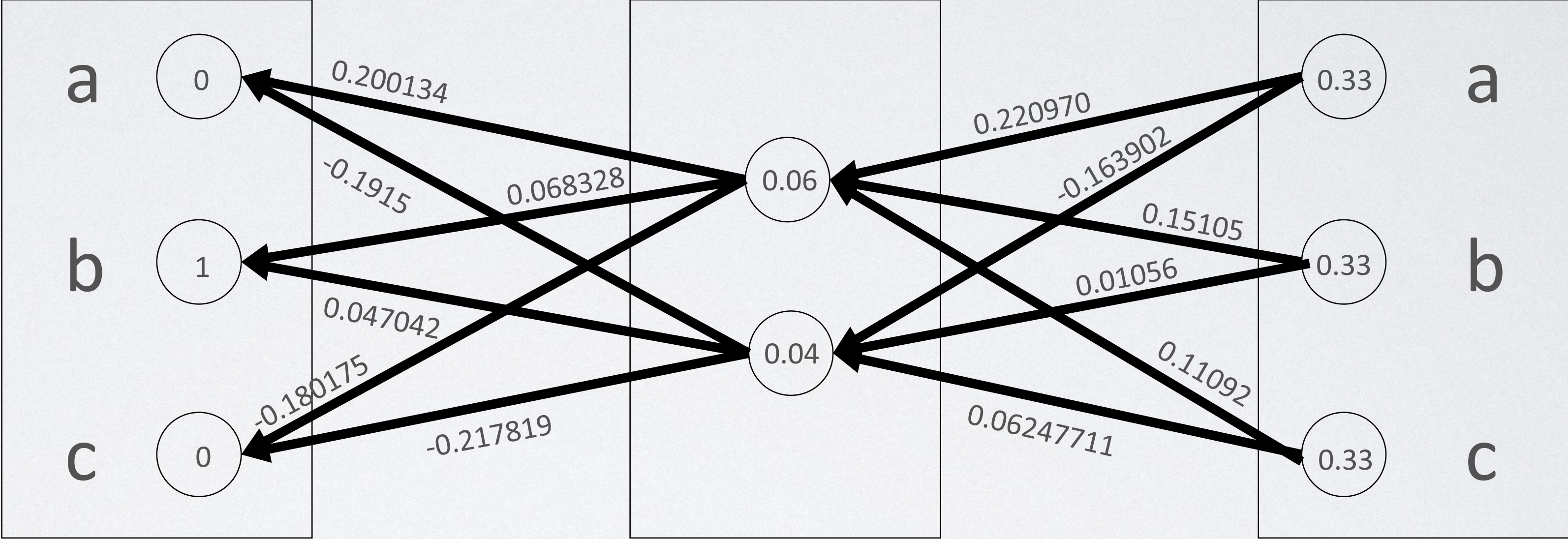




$$\frac{e^{0.22*0.06+0.04*-0.163}}{e^{0.22*0.06+0.04*-0.163} + e^{0.15*0.06+0.04*0.0105} + e^{0.110*0.06+0.04*0.06}}$$





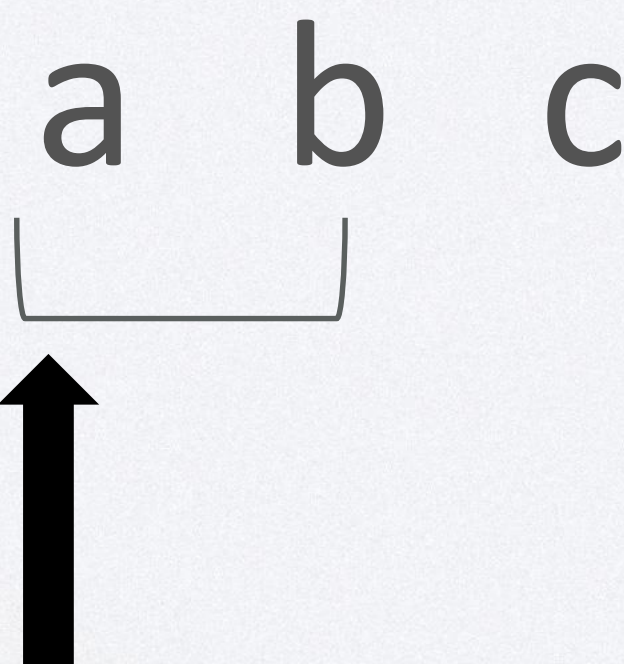
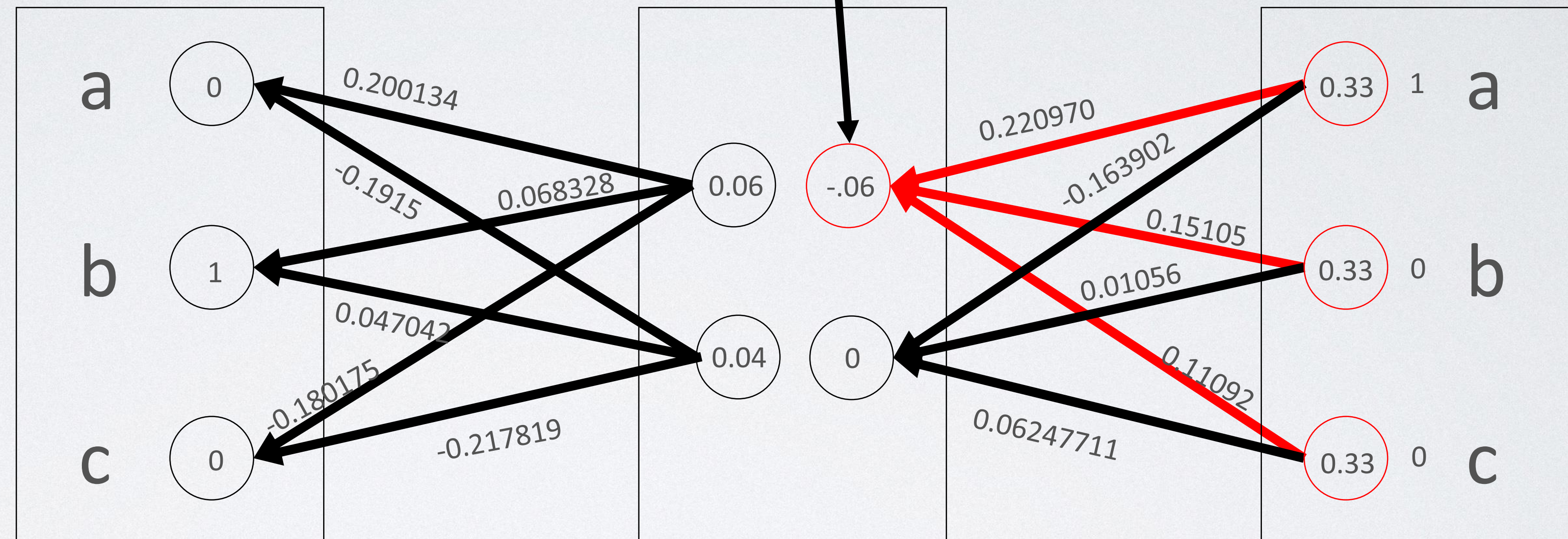


a b c

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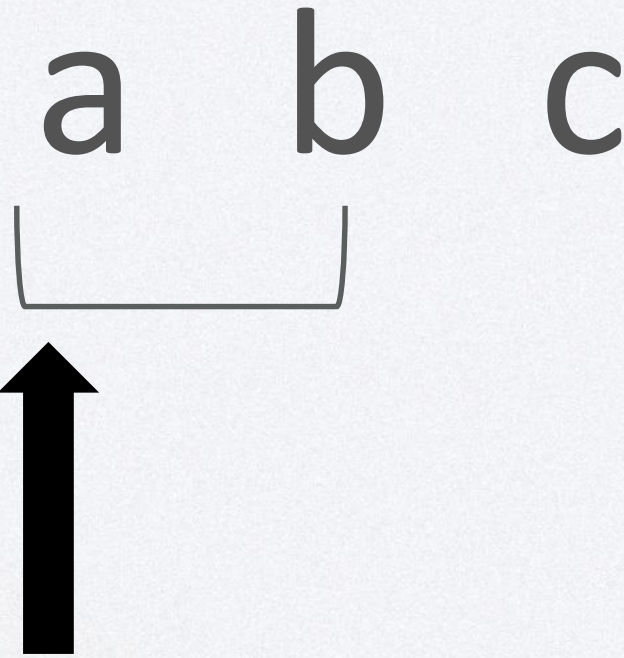
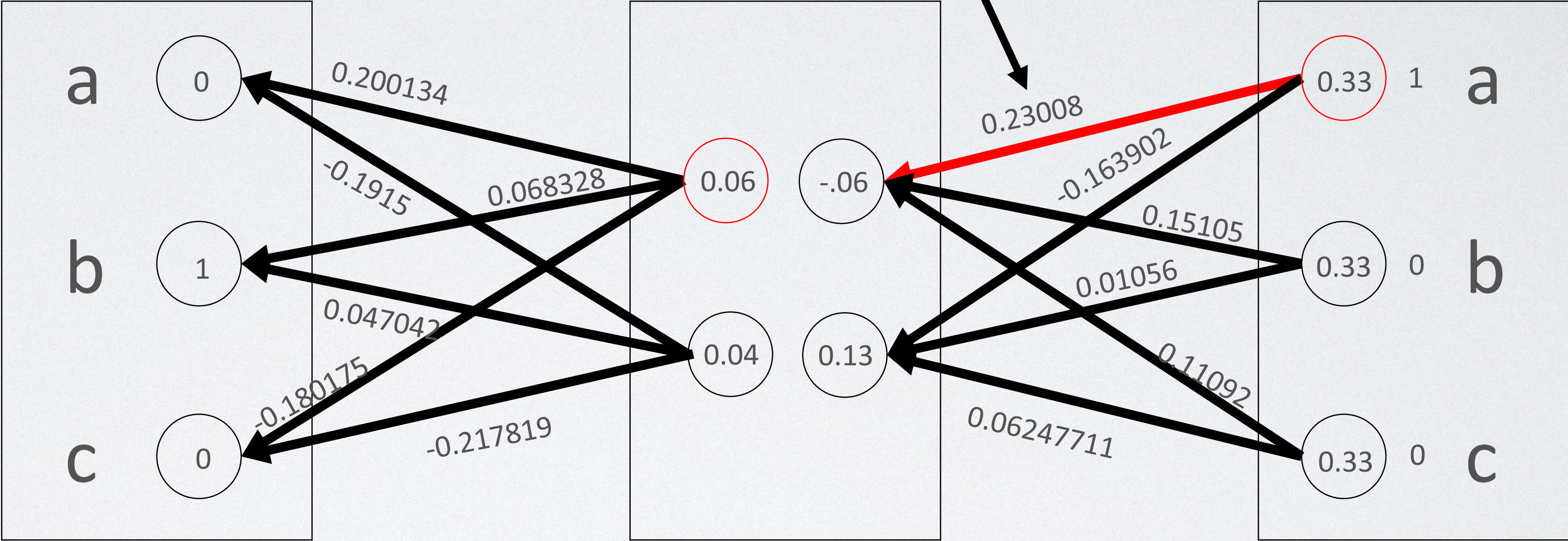


$$(0.3326 - 1) \times 0.220970 + (0.3337 - 0) \times 0.15105 + (0.3336 - 0) \times 0.11092$$

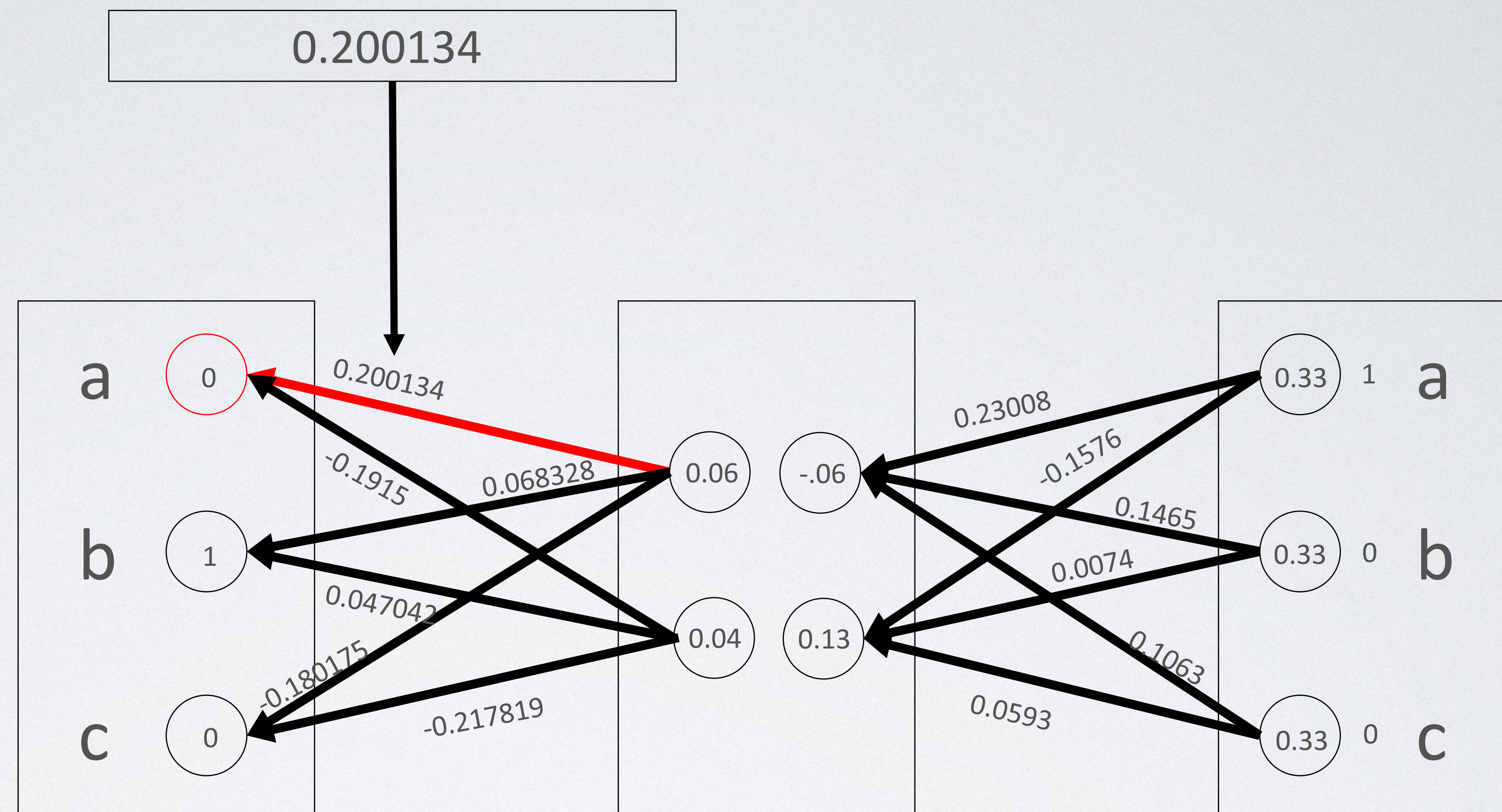




$$0.220970 - [\alpha \times (0.3326 - 1) \times 0.0683]$$

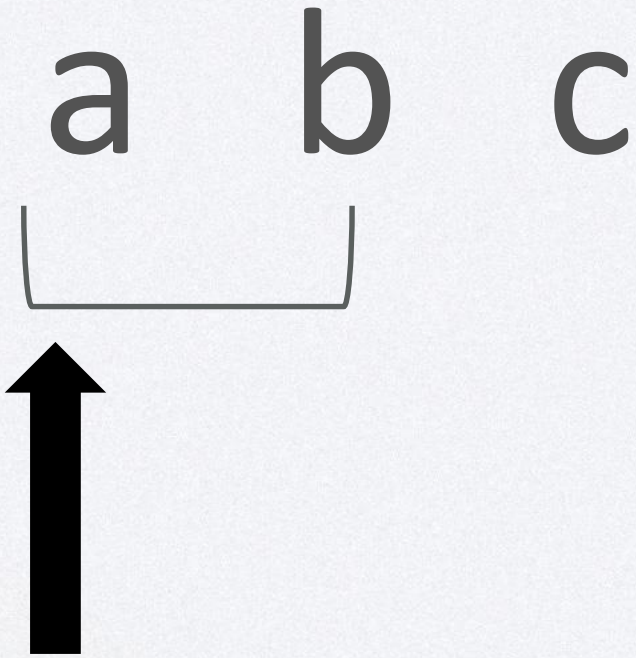
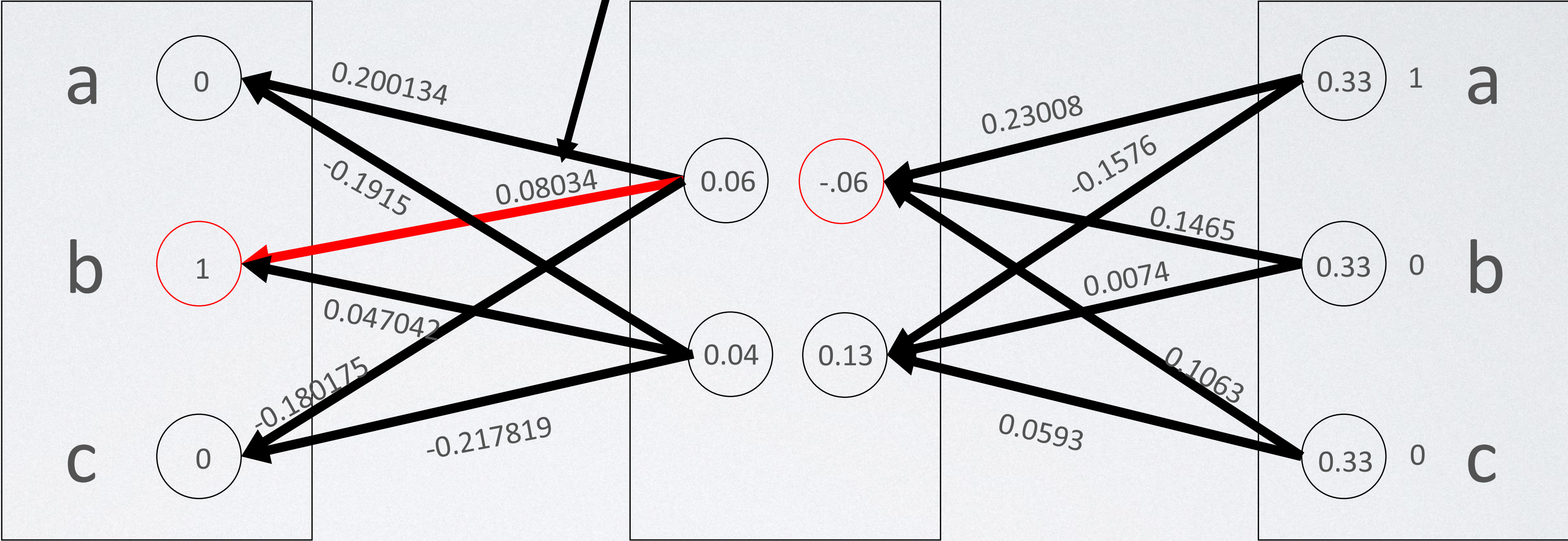




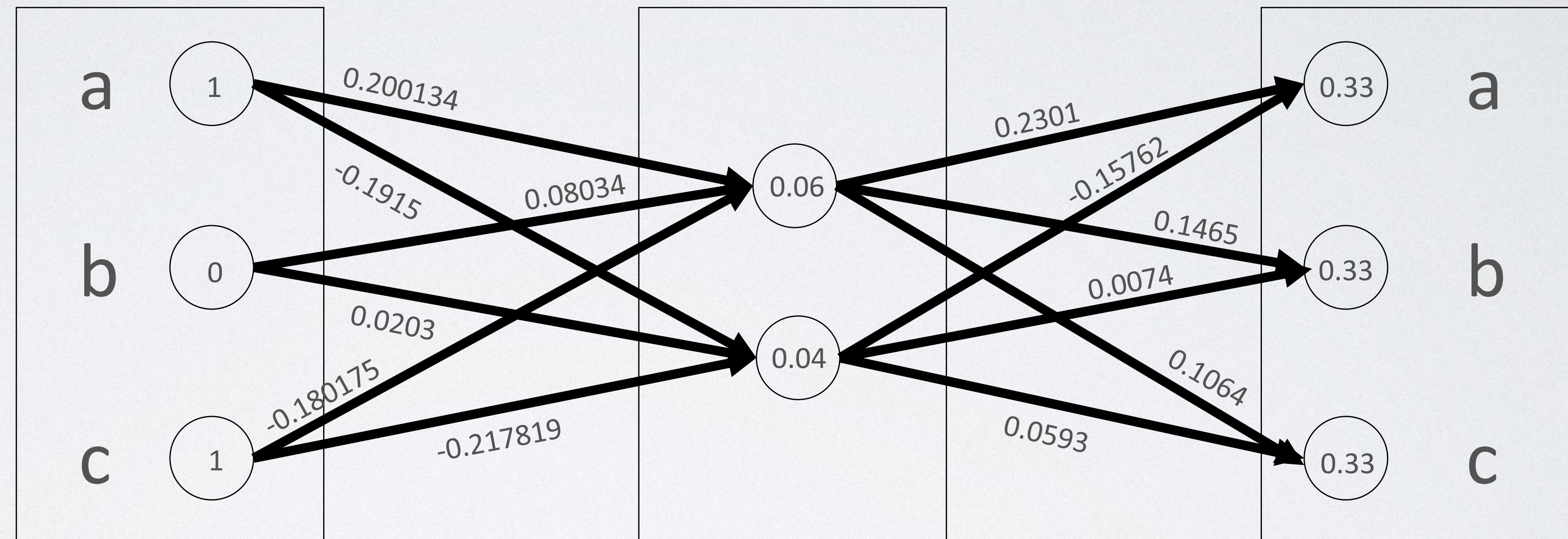




$$0.068328 - (\alpha \times -0.0601)$$







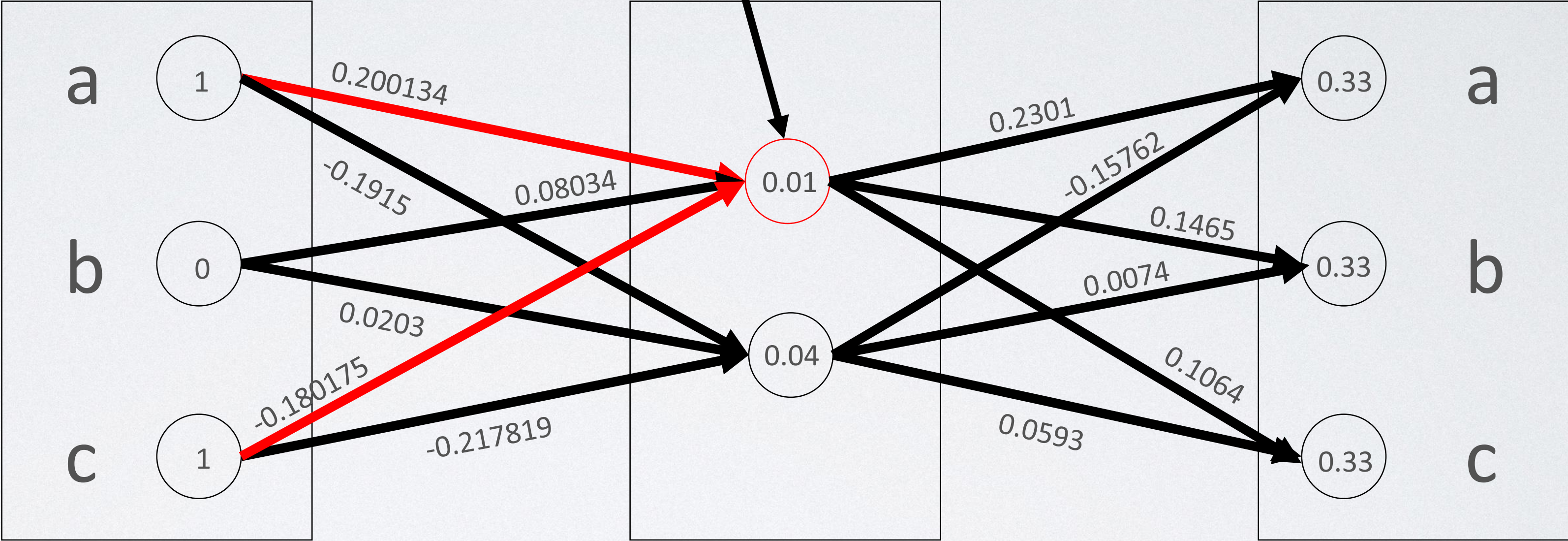
**a   b   c**

**[**

**↑**



$$\frac{0.200134 + -0.180175}{2}$$



a b c

[





Country and Capital Vectors Projected by PCA

