$mred(a,b) = \bar{r_a} + \frac{\sum_{b \in N} sim(a,b) \times (r_{b,p} - \bar{r_b})}{\sum_{b \in N} sim(a,b) \times (r_{b,p} - \bar{r_b})}$

 $\sum_{b \in N} sim(a,b)$