$$R_t = c_1 \cdot 10^{c_2 \cdot Ref_t} \tag{1}$$

$$S_0 = \sum_i t_i \cdot R \tag{2}$$

$$S_0 = \sum_{i} t_i \cdot R$$

$$J = \frac{1}{m} \sum_{i=1}^{m} |S_i - Expected_i|$$
(3)