

$$\operatorname{argmax}_{1 \leq n \leq N} u^{T+1} = \operatorname{argmax}_{1 \leq n \leq N} u^1 \cdot \prod_{t=1}^T \left(d(t) \text{ if error, } \frac{1}{d(t)} \text{ if correct} \right)$$