

## **Prioritizing flashcards during revision**

When prioritizing the flashcards, we plan to use history and the timer(which tells how much time was required by a flash card during the revision)

$$\text{priority} = \alpha * \text{prev\_priority} + (1-\alpha)(\text{timer's\_time})$$

The priority value will be stored in the database

## **Spaced Repetition Algorithm**

if(easy)

$$(\text{Today's date} - \text{prev\_revised}) + 14 + (1 - \text{norm\_priority}) * 30 \text{days}$$

if(medium)

$$(\text{Today's date} - \text{prev\_revised}) + 7 + (1 - \text{norm\_priority}) * 14 \text{days}$$

if(difficult)

$$(\text{Today's date} - \text{prev\_revised}) + 3 + (1 - \text{norm\_priority}) * 7 \text{days}$$