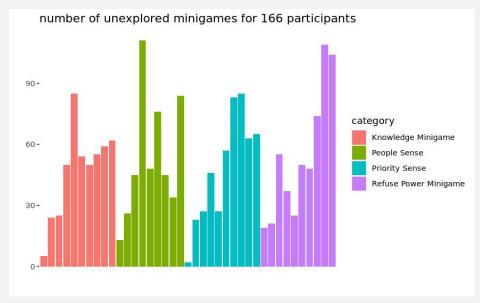
# Reordering minigames with personalized Recommendation System

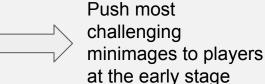
- 1. Background & Problem
- 2. Methodology
- 3. Evaluation

## 1

## **Background & Problem**



- What we want to do:
- Reorder minigames personality



- 10-16 hours to finish the game!
- 24% finished all
- Quit rate increases with the game progress

#### **Problem:**

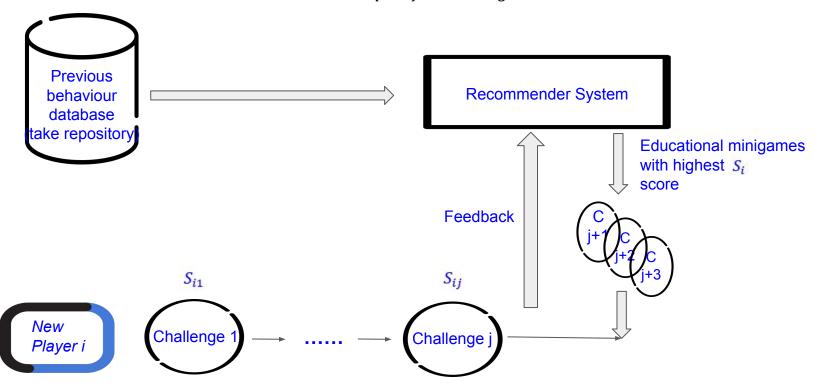
The inefficiency of game process causes incomplete data collection



Maximize data collection efficiency for researchers

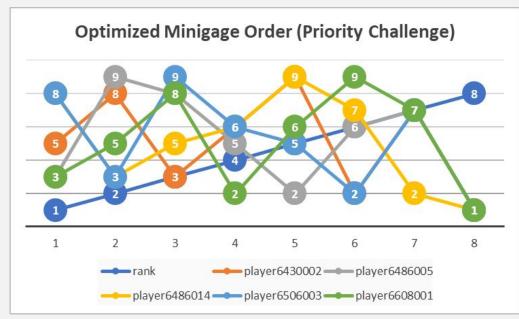
## **Methodology**

$$Struggle\ Level = 3 - \frac{Total\ score\ of\ each\ minigame}{\#\ Attempts\ of\ each\ minigame}$$



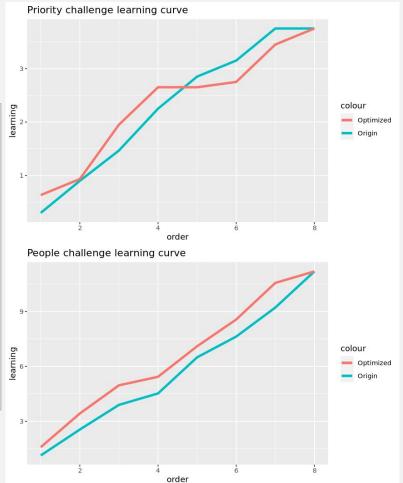


#### Personalization:

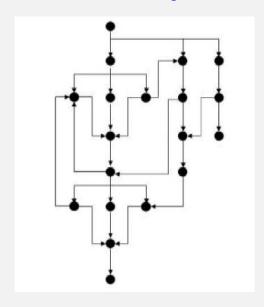


Using our model, the learning performance for People sense increased by 12.2% an average than the original performance

### Steeper Learning curve:



## Fixed order of minigames



## Personalized order of minigames

