

Coding Assignment

OVERVIEW

Create an in-memory store for recently played songs that can accommodate N songs per user, with a fixed initial capacity. This store must have the capability to store a list of song-user pairs, with each song linked to a user. It should also be able to fetch recently played songs based on the user and eliminate the least recently played songs when the store becomes full.

EXAMPLE

Illustration, when 4 different songs were played by a user & Initial capacity is 3:

Let's assume that the user has played 3 songs - S1, S2 and S3.

- The playlist would look like -> S1,S2,S3
- When S4 song is played -> S2,S3,**S4**
- When S2 song is played -> S3,S4,**S2**
- When S1 song is played -> S4,S2,**S1**

SUBMISSION GUIDELINES

- Share your code via a git repo.

EXPECTATIONS

- Pick any object oriented language of your choice to solve the problem
- Adhere to clean coding standards and principles. OOP is recommended (A sample list of coding conventions to refer <https://www.browserstack.com/guide/coding-standards-best-practices>)
- Write tests to validate the logic

