

# TRACKS

(/challenge/id/351)

JET Chennai Local Network  
Choose one from the following tracks.  
(/challenge/id/351)

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## Memory Game

There is a 3 by 3 grid of 9 differently colored squares as shown:

View

Problem



These squares light up in a random pattern. The amount of time each square lights up is of 0.5 second duration. After the pattern is displayed, the user has to indicate what the pattern is by clicking the squares in proper order.

There are various levels of play. Level 1 would mean that the pattern length would be of length 1, level 2 means that the pattern length is of length 2 and so on. In general, if you are on level  $n$ , the pattern length of the squares lighting up would be of length  $n$  units.

Your task is to create this game along with a user login and password screen.

If the user is a first time user, the user starts off from level 1. If he clears level 1, he is taken to level 2 and so on. Once he logs in again, he will have to start from the last level he failed to clear e.g. on his last login, if he's stuck at level 5, he will have to start from level 5 onwards.

### Judging Criteria

- Completeness (1-5)
- Correctness (1-5)
- Presentation (1-5)
- Aesthetics (1-5)

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## Bucket List

Create an application that would enable a user to create, update or delete a bucket list and share.

### Requirements

- Login screen for the user
- A user can have more than one bucket list e.g. for reading, travel etc.
- Shareable url for the bucket list

**Judging criteria**

- Completeness (1-5)
- Correctness (1-5)
- Presentation (1-5)
- Aesthetics (1-5)

## Source Code Madness

Design a web application that accepts some source code from a user as input (in a html textarea, for eg.) and identifies the language in which it is written.

Language set: C, C++, Java, Python and Ruby

You may assume that the source code in the provided input is a valid program.

Note that the use of third party libraries or APIs for language detection is prohibited

**Judging criteria**

- Completeness (1-5)
- Correctness (1-5)
- Presentation (1-5)
- Aesthetics (1-5)