



GRAUMAN

HI-TECH DEV COURSES

# Back End

JavaScript | Node | NPM

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*Self Examination*

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## *EvenOdd Game*

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Create a console program called EvenOdd Game

### Phase 1 (50 pts):

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2 players play against each other.

You get the player's names from the user.

In each \*round\*, the game randomize a number between -5 and 13.

If the number is even, the first player gets a point.

If the number is odd, the second player gets a point.

Rounds are played until someone is the first to get 3 points (Best of 5), and so is the winner.

For example:

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Round #1, random number is 8, Julia scored!

Status: Julia 1, Avihu 0

Round #2, random number is 10, Julia scored!

Status: Julia 2, Avihu 0

Round #3, random number is 5, Avihu scored!

Status: Julia 2, Avihu 1

Round #4, random number is 12, Julia scored!

Status: Julia 3, Avihu 1

Julia Wins!

## Phase 2 (30 pts):

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Enhance the EvenOdd game:

Now enable to conduct a tournament.


You can get from the user up to 7 players (and no less than 2).

Now, in each \*round\* the game picks up 2 players randomly to play, so one of them will get a point.

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The game is playing rounds (each round with 2 randomized players!) until someone reaches 3 wins:

If, for example, it's best of 5 - the first to get to 3 points.

If, for example, it's best of 7 - the first to get to 4 points.

## phase 3 (10 pts):

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The winner of the tournament should play against the Boss (Boss as the second player).

The Boss have special ability: if the number is negative even, first player doesn't get the point, and the round is replayed again.

## 10 pts:

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Read a little and experiment with the 'fs' built-in library.

Save the EvenOdd game data in a file.

When the game starts, if there is previous game history - show it as nice as you can.

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One of your options is readfile:

[https://nodejs.org/docs/latest-v14.x/api/fs.html#fs\\_fs\\_readfile\\_path\\_options\\_callback](https://nodejs.org/docs/latest-v14.x/api/fs.html#fs_fs_readfile_path_options_callback)

Or writefile:

[https://nodejs.org/docs/latest-v14.x/api/fs.html#fs\\_fs\\_writefile\\_file\\_data\\_options\\_callback](https://nodejs.org/docs/latest-v14.x/api/fs.html#fs_fs_writefile_file_data_options_callback)

## 10 pts bonus:

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Use Git.

Every phase in it's own branch (I wanna see branches of progress, so plan it ahead!)

At the end - master is the whole program (each branch was merged).

Submit your git repo.

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## Important Notes:

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- Player has at least name and score.
- Best of 5 can be dynamic.  
It can be set to 7 (or 9 or...), so now the first to get 4 (or 5 or...) points wins
- Model your project!
- Think of each entity responsibility: which action is done by which entity.
- Use npm packages when you need
- Clean Coding!
- Submit a working Code!
- Small steps in code, big steps to reach 100 ;-)