

TDD Interview Preparation



Language: JavaScript



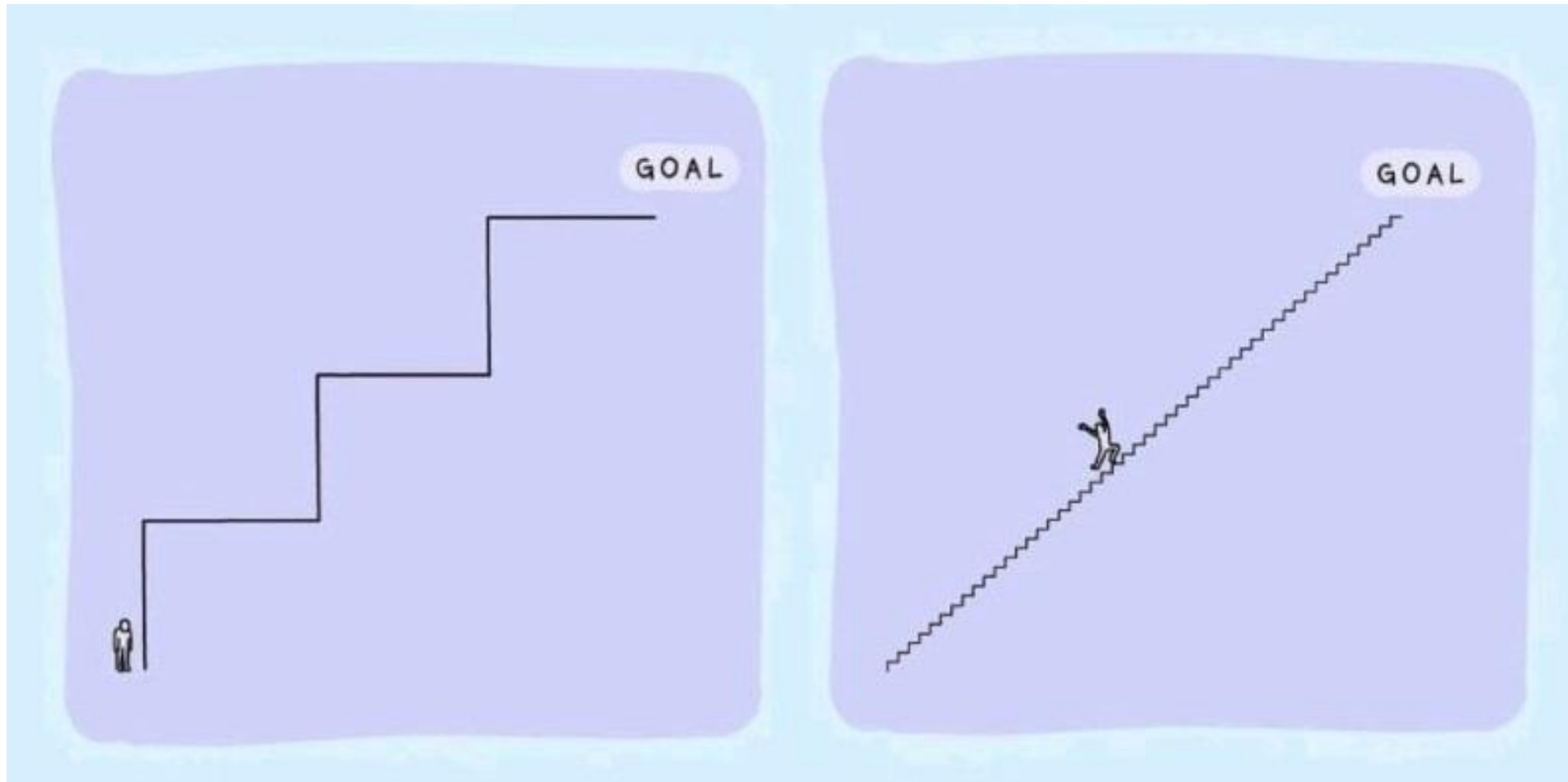
Test Library: Jest

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Software Engineer Career

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جلسه اول: (Session One)

مراحل کار :

راه اندازی یک پروژه جهت تست از صفر تا صد

حل یک مساله ساده : جمع دو عدد

- بررسی پیش نیازها
- ساخت یک پروژه خام از ابتدا
- نصب پکیج های لازم
- ایجاد فایل های لازم جهت کد و تست
- نوشتن تست ها و آشنایی با دستورات لازم
- نوشتن کد و مشاهده نتیجه
- مشاهده صفحه گیت هاب مربوطه
- جمع بندی

<https://github.com/MamadTaheri68/TDD-Interview-JS>

Session 02:

Create A Calculator using Javascript Class

<https://github.com/MamadTaheri68/TDD-Interview-JS>

Session 03:

FizzBuzz

<https://github.com/MamadTaheri68/TDD-Interview-JS>

Session 04:

Reverse String

<https://github.com/MamadTaheri68/TDD-Interview-JS>

Session 05:

Reverse Integer

<https://github.com/MamadTaheri68/TDD-Interview-JS>

Session 06:

Definition :

Palindrome
(easy way)

A palindrome is a word, number, phrase, or other sequence of characters which reads the same backward as forward, such as madam or racecar.

Wikipedia Link: <https://en.wikipedia.org/wiki/Palindrome>

Examples :

mam



mama



Mammam



Asdf



asfdsa



Session 07:

Palindrome Integer

- Zero
- Positive
- Negative

Important! Sometimes Negative numbers are considered as Not Palindrome Integers.

Examples :



True

+/- 121

+/- 1221

+/- 12321

+/- 123321

+/- 4568654



False

0

+/- 10

+/- 124

+/- 1240

+/- 27621

Session 08:

Factorial

Factorial of **n** is **multiplication** of all positive integer numbers less than or equal to n

$$5! = 5 * 4 * 3 * 2 * 1$$

$$\begin{aligned} 5! &= 5 * 4! \\ &= 5 * 4 * 3! \\ &= 5 * 4 * 3 * 2! \\ &= 5 * 4 * 3 * 2 * 1 \end{aligned}$$

More information = <https://en.wikipedia.org/wiki/Factorial>

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Session 09:

Factorial with Exception Handling

Input Number	Operation
positive	Calculate
0	Throw "zero"
negative	Throw "negative"

Session 10:

Factorial of an array with Exception Handling

A real Interview task for a company from Netherland

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