

# 20170423 nodejs interview

## Javascript

### 問答題

Reference:

<https://stackoverflow.com/questions/1684917/what-questions-should-a-javascript-programmer-be-able-to-answer>

Why would this code not work as expected? Is anything missing? class Polygon {



```
// ..and an (optional) custom class constructor. If one is
// not supplied, a default constructor is used instead:
// constructor() { }
constructor(height, width) {
  this.name = 'Polygon';
  this.height = height;
  this.width = width;
}
}
```



Why does it alert undefined when I declared the jack variable to be 'Jack'?



What will this code alert? Why?



Why does the second alert say undefined?



Why do the anchors, when clicked on, alert -1 instead of their respective counter inside of the loop?

The difference is scoping. var is scoped to the nearest function block and let is scoped to the nearest enclosing block.

- Function.prototype.apply() 是什麼呢?
- ES6 跟 ES5 有什么差别? 请以代码举例。
- What is JSON?
- Explain MVC
- 什么是 Callback?

- 什么是 Promise
- Callback 跟 Promise 有什么差别？请举例。
- 什么是设计模式 Design Pattern 请指出三个设计模式并以代码说明其中一个。

## 習作題



數列

<http://jsfiddle.net/questwork/nfb7B/>

## NodeJS



Node.js                      event                      loop                      reference:

<https://blog.risingstack.com/node-js-at-scale-understanding-node-js-event-loop/>

<https://jsfiddle.net/questwork/10497gs8/>

## MongoDB

假设你要做一个图书管理系统。你会怎样设计 MongoDB document 以达到以下需求？

- 读者能以作者姓名、分类、书名、出版社、年份找书籍。
- 请写出以作者姓名或书名的 Query

## Framework

- 有没有使用 Node.js + Express + MongoDB + Mongoose 的经验？请举例。
- 有没有使用 OAuth 及 Passport.js 的经验？请举例。
- 有没有使用 Backbone.js 的经验？什么是 Model, View 请举例。
- 有没有使用 ReactJS 的经验？请举例。

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