



Training & Certification

Lab 14.2 - OS Uptime and Memory

The labs-2 folder contains an `index.js` file and a `test.js` file.

The `index.js` file contains the following:

```
'use strict'
setTimeout(() => {
  console.log() // TODO output uptime of process
  console.log() // TODO output uptime of OS
  console.log() // TODO output total system memory
  console.log() // TODO output total heap memory
}, 1000)
```

Follow the TODO comments for each of the `console.log` statements.

To verify the implementation, the `test.js` file contains the following:

```
'use strict'
const assert = require('assert')
const os = require('os')
const { runInThisContext } = require('vm')
const run = (s) => runInThisContext(Buffer.from(s, 'base64'))
const { log } = console
const queue = [
  (line) => assert.strictEqual(
    Math.floor(line),
    1,
    'first log line should be the uptime of the process'
  ),
]
```

```
(line) => assert.strictEqual(
  line,
  run('KG9zKSA9PiBvcy51cHRpbWUoKQ==')(os),
  'second log line should be the uptime of the OS'
),
(line) => assert.strictEqual(
  line,
  run('KG9zKSA9PiBvcy50b3RhbG1lbSgp')(os),
  'third line should be total system memory'
),
(line) => assert.strictEqual(
  line,
  run('cHJvY2Vzcy5tZWlvcnlVc2FnZSgpLmhlYXBUb3RhbA=='),
  'fourth line should be total process memory'
)
]
console.log = (line) => {
  queue.shift()(line)
  if (queue.length === 0) {
    console.log = log
    console.log('passed!')
  }
}
require('.')
```

Run `node test.js` to verify whether the task was successfully completed, if it was `node test.js` will output **passed!**.