

Lab 15.2 - STDIO Redirection

The labs-2 folder index. js file contains the following:

```
'use strict'

const { spawn } = require('child_process')

function exercise (command, args) {
  return spawn(command, args)
}

module.exports = exercise
```

Complete the exercise function so that the returned child process:

- Has no ability to read STDIN.
- Redirects its STDOUT to the parent process' STDOUT.
- Exposes STDERR as a readable stream.

The labs-2 folder also contains a test.js file.

To verify that the exercise was completed successfully run node test.js, if the implementation is correct the process will output: passed!.

It is unnecessary to understand the contents of the **test.js** file, but the contents of it are as follows:

```
'use strict'
const exercise = require('.')
```



```
const cp = require('child process')
const assert = require('assert')
const { equal } = assert.strict
const { SCENARIO } = process.env
const [ node ] = process.argv
const stdoutCheck = () => { exercise(node, ['-p', `'test'`]) }
const stderrCheck = () => {
 const sp = exercise(node, ['-e', `console.error('test')`])
 if (sp.stderr) sp.stderr.pipe(process.stderr)
const stdinCheck = () => {
  exercise(node, ['-e', `
      process.stdout.write(Buffer.from([0]))
      process.stdin.pipe(process.stdout)
      setTimeout(() => {
        process.stdout.write(Buffer.from([1]))
      }, 100)
  `])
}
function test (scenario = 0) {
  switch (scenario) {
    case 1: return stdoutCheck()
    case 2: return stderrCheck()
    case 3: return stdinCheck()
  }
 const s1 = cp.spawnSync(node, [ filename], {
    env: {SCENARIO: 1},
  })
  equal(s1.stdout.toString().trim(), 'test', 'should inherit stdout')
  const s2 = cp.spawnSync(node, [ filename], {
    env: {SCENARIO: 2},
  })
  equal(s2.stderr.toString().trim(), 'test', 'should expose stderr')
 const s3 = cp.spawnSync(node, [ filename], {
    input: 'some input',
    env: {SCENARIO: 3},
```

```
})
equal(s3.stdout.length, 2, 'stdin should be ignored')
console.log('passed!')
}
test(Number(SCENARIO))
```

