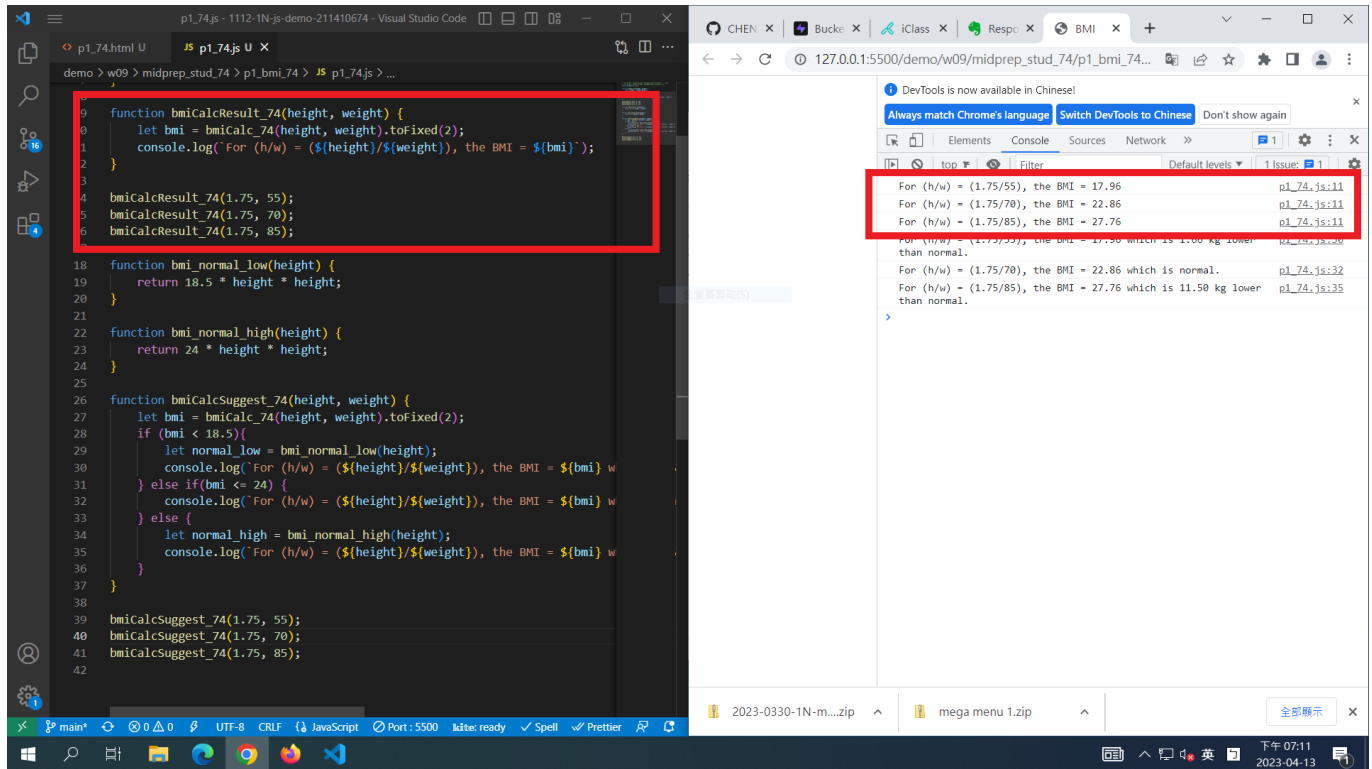


[Github](#)

W09-P1: Midprep P1 answer



The screenshot shows a Visual Studio Code editor on the left and a Chrome browser window on the right. The VS Code editor displays a JavaScript file named `p1_74.js` with the following code:

```
function bmiCalcResult_74(height, weight) {
  let bmi = bmiCalc_74(height, weight).toFixed(2);
  console.log(`For (h/w) = (${height}/${weight}), the BMI = ${bmi}`);
}

bmiCalcResult_74(1.75, 55);
bmiCalcResult_74(1.75, 70);
bmiCalcResult_74(1.75, 85);

function bmi_normal_low(height) {
  return 18.5 * height * height;
}

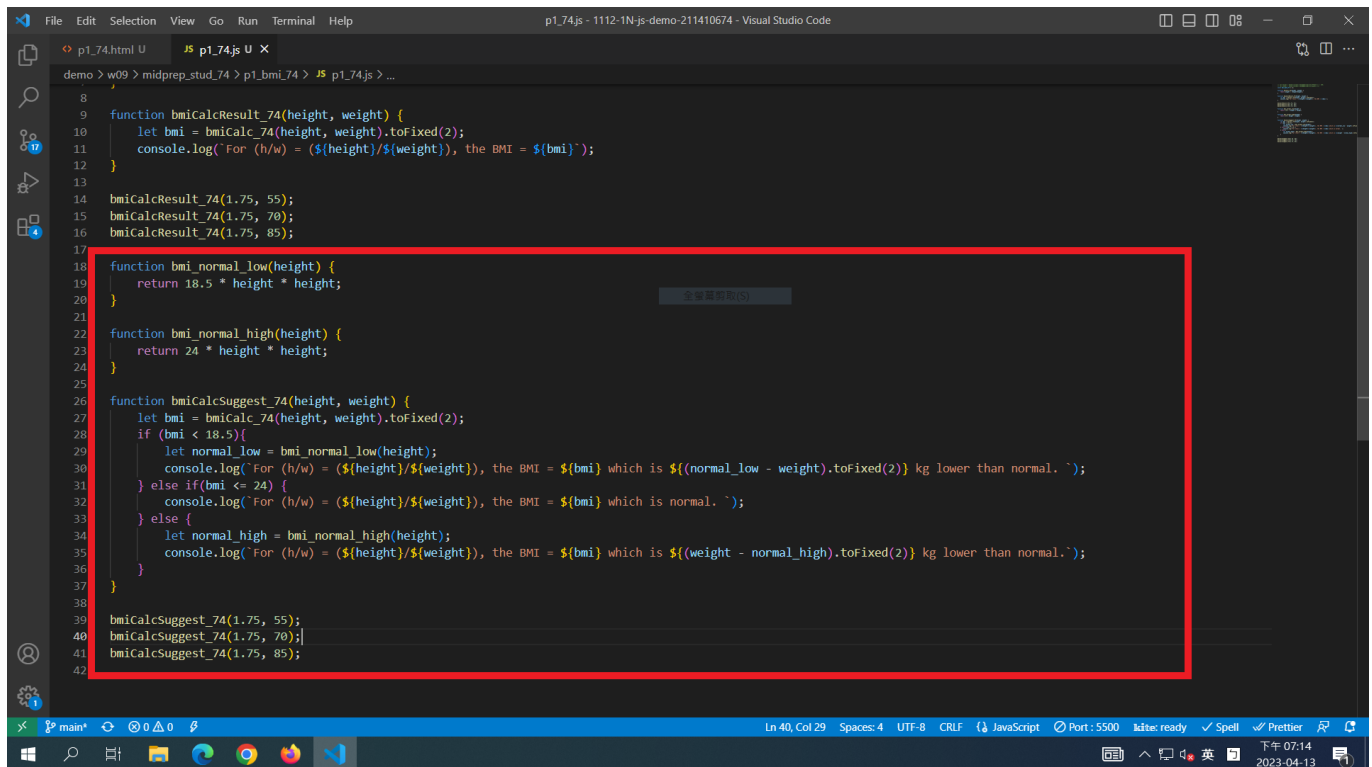
function bmi_normal_high(height) {
  return 24 * height * height;
}

function bmiCalcSuggest_74(height, weight) {
  let bmi = bmiCalc_74(height, weight).toFixed(2);
  if (bmi < 18.5) {
    let normal_low = bmi_normal_low(height);
    console.log(`For (h/w) = (${height}/${weight}), the BMI = ${bmi} w`);
  } else if (bmi <= 24) {
    console.log(`For (h/w) = (${height}/${weight}), the BMI = ${bmi} w`);
  } else {
    let normal_high = bmi_normal_high(height);
    console.log(`For (h/w) = (${height}/${weight}), the BMI = ${bmi} w`);
  }
}

bmiCalcSuggest_74(1.75, 55);
bmiCalcSuggest_74(1.75, 70);
bmiCalcSuggest_74(1.75, 85);
```

The Chrome browser window shows the console output of the BMI calculations:

```
For (h/w) = (1.75/55), the BMI = 17.96
For (h/w) = (1.75/70), the BMI = 22.86
For (h/w) = (1.75/85), the BMI = 27.76
```



The screenshot shows the Visual Studio Code editor with the same JavaScript file `p1_74.js`. A red box highlights the `bmiCalcSuggest_74` function and its calls. The code is as follows:

```
function bmiCalcResult_74(height, weight) {
  let bmi = bmiCalc_74(height, weight).toFixed(2);
  console.log(`For (h/w) = (${height}/${weight}), the BMI = ${bmi}`);
}

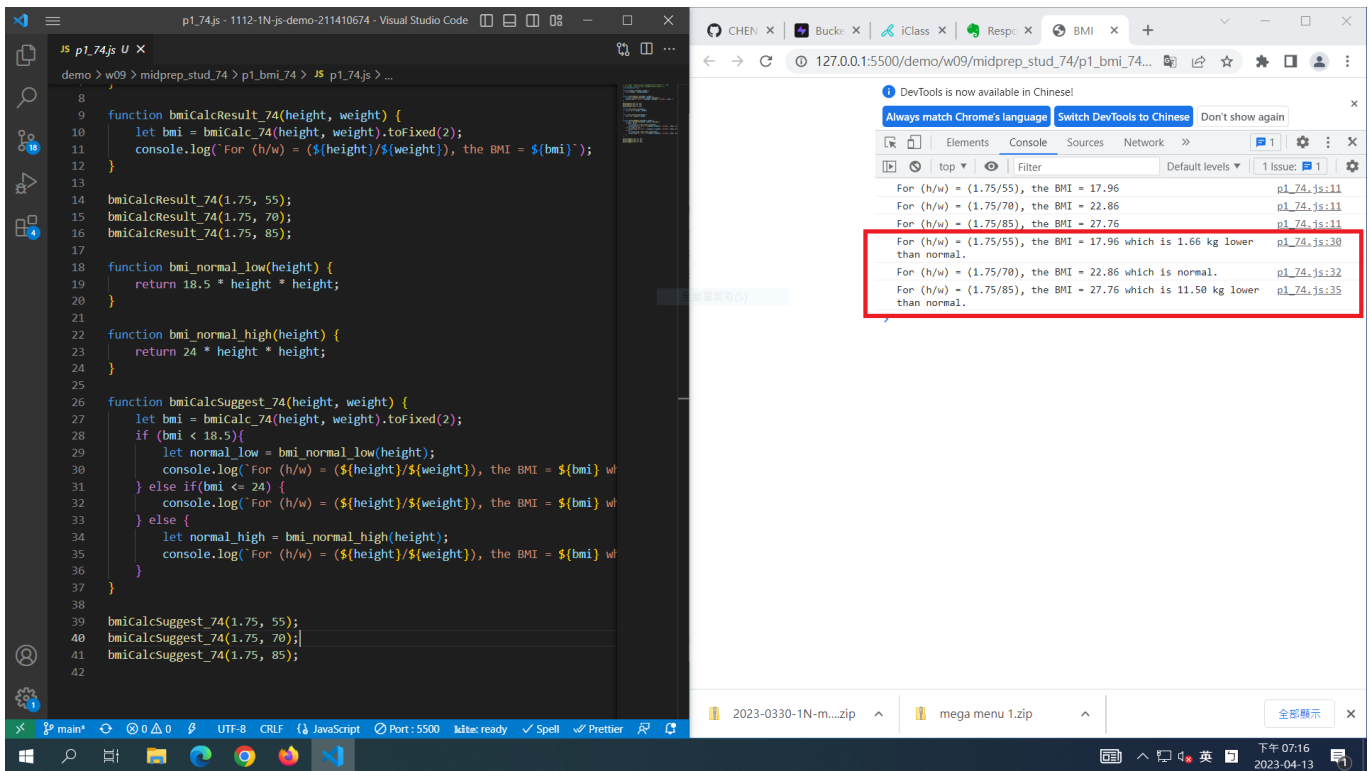
bmiCalcResult_74(1.75, 55);
bmiCalcResult_74(1.75, 70);
bmiCalcResult_74(1.75, 85);

function bmi_normal_low(height) {
  return 18.5 * height * height;
}

function bmi_normal_high(height) {
  return 24 * height * height;
}

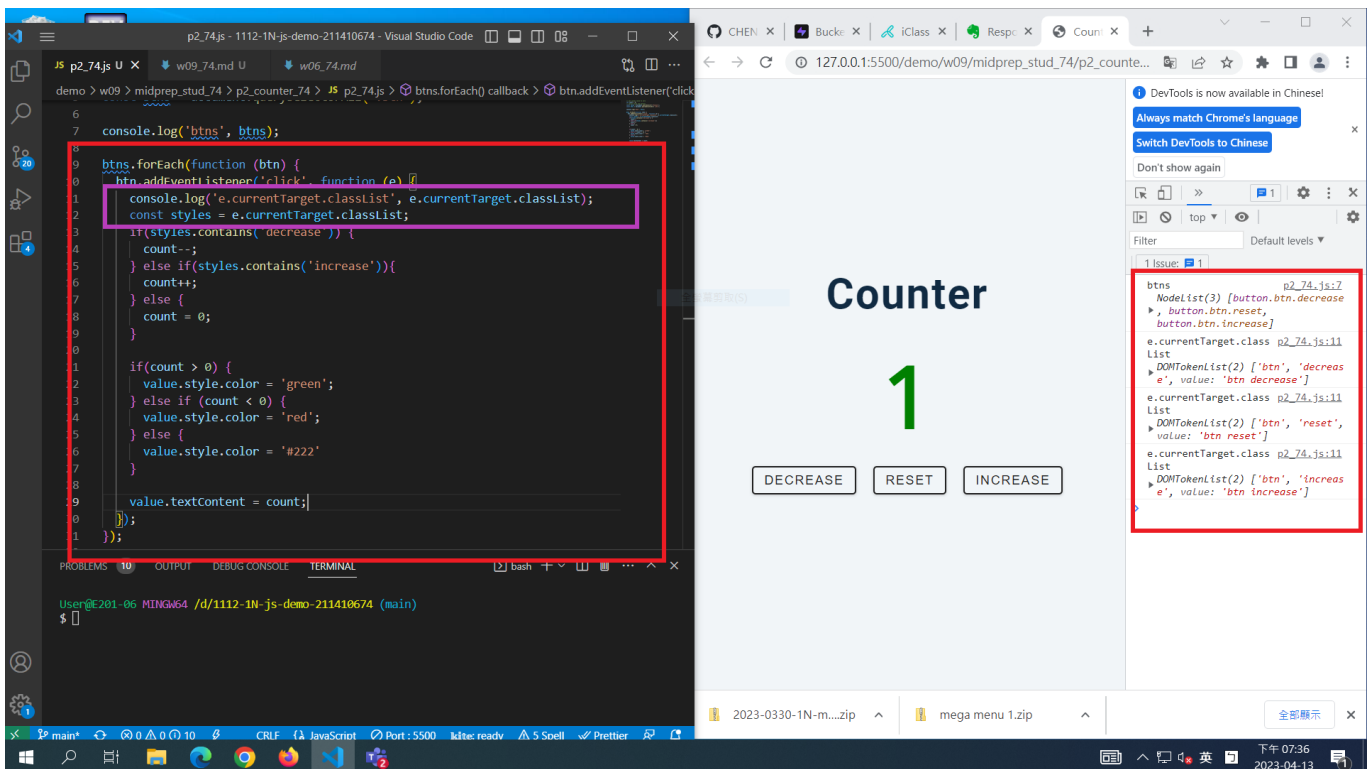
function bmiCalcSuggest_74(height, weight) {
  let bmi = bmiCalc_74(height, weight).toFixed(2);
  if (bmi < 18.5) {
    let normal_low = bmi_normal_low(height);
    console.log(`For (h/w) = (${height}/${weight}), the BMI = ${bmi} which is ${((normal_low - weight).toFixed(2))} kg lower than normal.`);
  } else if (bmi <= 24) {
    console.log(`For (h/w) = (${height}/${weight}), the BMI = ${bmi} which is normal.`);
  } else {
    let normal_high = bmi_normal_high(height);
    console.log(`For (h/w) = (${height}/${weight}), the BMI = ${bmi} which is ${((weight - normal_high).toFixed(2))} kg lower than normal.`);
  }
}

bmiCalcSuggest_74(1.75, 55);
bmiCalcSuggest_74(1.75, 70);
bmiCalcSuggest_74(1.75, 85);
```



```
git log --pretty=format:"%h%x09an%x09ad%x09s" --after="2023-4-12"
da58e8d CHEN211410674 Thu Apr 13 19:41:11 2023 +0800 W09-P1: Midprep P1 answer
```

W09-P2: Midprep P2 answer



```
git log --pretty=format:"%h%x09an%x09ad%x09s" --after="2023-4-12"
47ed21b CHEN211410674 Thu Apr 13 19:44:13 2023 +0800 W09-P2: Midprep P2 answer
```

W09-P3: Midprep P1 answer (c)(d)

The screenshot shows a VS Code editor with a JavaScript file named `p1_74.js`. The code defines a function `bmiCalcSuggest_74` that takes height and weight as arguments and returns a string indicating the BMI status. A red box highlights the following code snippet:

```
const bmi_data1_74 = [
  {height: 1.75, weight: 55},
  {height: 1.75, weight: 70},
  {height: 1.75, weight: 85}
];

bmi_data1_74.forEach((item) => {
  bmiCalcSuggest_74(item.height, item.weight);
});
```

The Chrome DevTools console shows the output of the `bmiCalcSuggest_74` function for the three data points. A red box highlights the following log messages:

```
For (h/w) = (1.75/55), the BMI = 17.96 which is 1.66 kg lower than normal.
For (h/w) = (1.75/70), the BMI = 22.86 which is normal.
For (h/w) = (1.75/85), the BMI = 27.76 which is 11.50 kg lower than normal.
```

The console also shows a summary of the results:

```
bmi summary:
lower: 2
normal: 4
high: 4
```

The screenshot shows a VS Code editor with a JavaScript file named `p1_74.js`. The code defines a function `bmiCalc_74` that takes height and weight as arguments and returns a string indicating the BMI status. A red box highlights the following code snippet:

```
const bmi_data2_74 = [
  {height: 1.75, weight: 55},
  {height: 1.75, weight: 70},
  {height: 1.75, weight: 85},
  {height: 1.75, weight: 50},
  {height: 1.75, weight: 75},
  {height: 1.75, weight: 90},
  {height: 1.75, weight: 80},
  {height: 1.75, weight: 65},
  {height: 1.75, weight: 73},
  {height: 1.75, weight: 72}
];

bmi_data2_74.forEach((item) => {
  const bmi = bmiCalc_74(item.height, item.weight);
  if (bmi < 18.5) {
    lowerCount++;
  } else if (bmi <= 24) {
    normalCount++;
  } else {
    higherCount++;
  }
});

console.log(`
bmi summary:
lower: ${lowerCount}
normal: ${normalCount}
high: ${higherCount}
`);
```

The Chrome DevTools console shows the output of the `bmiCalc_74` function for the ten data points. A red box highlights the following log messages:

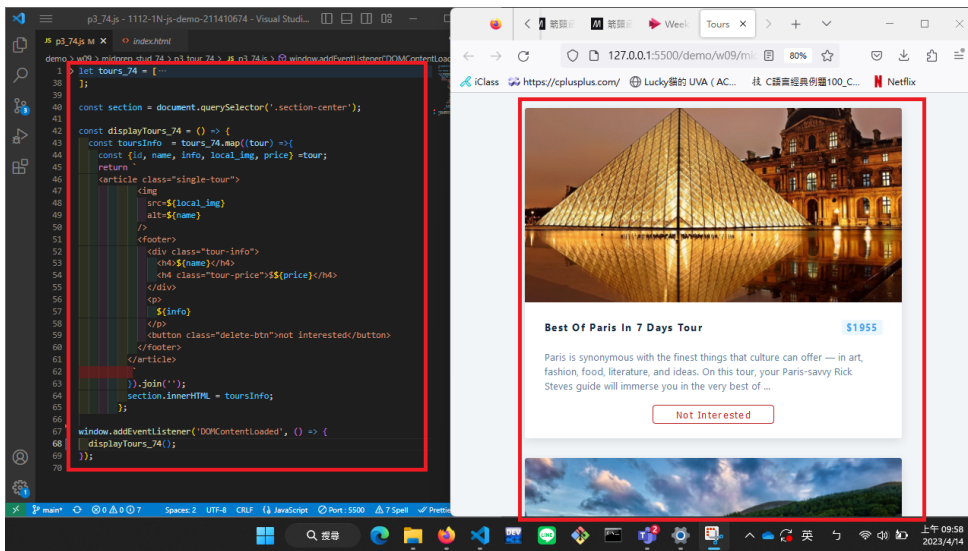
```
For (h/w) = (1.75/55), the BMI = 17.96 which is 1.66 kg lower than normal.
For (h/w) = (1.75/70), the BMI = 22.86 which is normal.
For (h/w) = (1.75/85), the BMI = 27.76 which is 11.50 kg lower than normal.
```

The console also shows a summary of the results:

```
bmi summary:
lower: 2
normal: 4
high: 4
```

```
git log --pretty=format:"%h%x09%an%x09%ad%x09%" --after="2023-4-12"
c12ddd8 CHEN211410674 Thu Apr 13 20:15:13 2023 +0800 W09-P3: Midprep P1 answer
(c)(d)
```

W09-P4: Midprep P3 answer

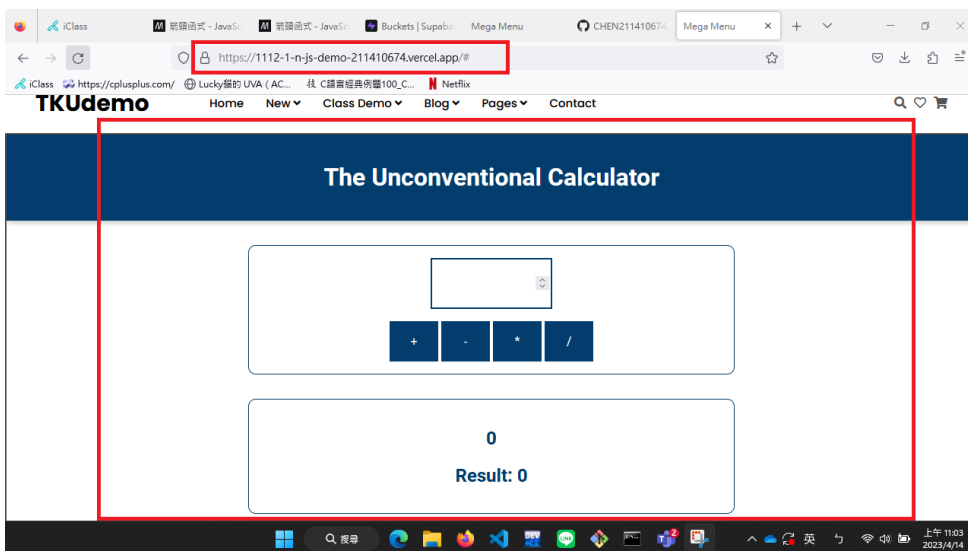


```
git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-4-12"
```

```
6158df1 CHEN211410674   Fri Apr 14 10:02:45 2023 +0800   W09-P4: Midprep P3 answer
b7cd092 CHEN211410674   Thu Apr 13 22:12:02 2023 +0800   ### W09-P4: Midprep P3
answer
```

```
c60a3c4 CHEN211410674   Thu Apr 13 21:59:01 2023 +0800   W09-P4: Midprep P3 answer
```

W09-P5: Mega Menu deploy to Vercel



```
git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-4-12"
```

```
c228b41 CHEN211410674   Fri Apr 14 11:03:03 2023 +0800   W09-P5: Mega Menu deploy
to Vercel
```

All logs

```
$ git log --pretty=format:"%h%x0a%x0a%x0a" --after="2023-4-12"
c28b41 CHEQ211418674 Fri Apr 14 11:03:03 2023 +0800 M09-P5: Mega Menu deploy to Vercel
615b6f1 CHEQ211418674 Fri Apr 14 10:02:45 2023 +0800 M09-P4: Midprep P3 answer
b7ca092 CHEQ211418674 Thu Apr 13 22:12:02 2023 +0800 ## M09-P4: Midprep P3 answer
c9ba354 CHEQ211418674 Thu Apr 13 21:59:00 2023 +0800 M09-P4: Midprep P3 answer
70bae10 CHEQ211418674 Thu Apr 13 21:28:33 2023 +0800 .vscode
c12dd50 CHEQ211418674 Thu Apr 13 20:15:13 2023 +0800 M09-P3: Midprep P1 answer (C)(G)
47ae210 CHEQ211418674 Thu Apr 13 19:44:13 2023 +0800 M09-P2: Midprep P2 answer
da58eb0 CHEQ211418674 Thu Apr 13 19:41:11 2023 +0800 M09-P1: Midprep P1 answer
```