

(60%) 113-2 JavaScript 網頁設計一 期中 mid1 -- 斷網考試

2025-04-17, at E201, from 18:20~20:50

Note:

1. mid1 是斷網考試，mid2 是開放網路考試，如果 mid1 題目已經完成 (P1, P2, P3)，可以開始做 mid2 題目不須網路的部分 (P4)
2. 請不要發揮同學愛，作弊雙方除了本次考試 0 分外，平常分數另扣 20 分，情節嚴重者會送校。
3. iClass 上請繳交 md_mid1_43.pdf, md_mid1_43.zip(md 壓縮檔), mid1_43.zip (code 壓縮檔)，壓縮前請將 node_modules 全部砍掉
4. 請直接將答案寫在 md_mid1_43/md_mid1_43.md 上，老師出題及圖片放在 md_mid1_htc.pdf 上，請依照老師所給的圖片來實作並標註
5. 跟期中考相關的檔案及目錄名稱有 xx 時，必須要改成學號後 2 碼，沒有修改時，會視違犯情況扣分。
6. 每一張圖片要有機房左側背景，圖片上要有你的學號(或後兩碼)，圖片標註要跟老師所標註的類似。違者會依情節扣分。
7. 請自評分數，將每一題的？填入分數，沒有填者，不會批改，以 0 分計算。

Your (Name, ID): (許勝翔, 213410243)

Mid1: 60% 斷網

- P1 (20%): 20 分
- P2 (20%): 20 分
- P3 (20%): 20 分

Mid2: 40% 開放網路

- P4 (10%): 10 分
- P5 (20%): 20 分
- P6 (10%): 10 分

總分: 100 分

Mid1: 60%

(15%) P1: 實作 m1_43, simple BMI

在 p1_43.js 直接設定 3 筆資料如下，

1. (height, weight) = (1.75, 55) · BMI=18.0, lower
2. (height, weight) = (1.75, 70) · BMI=22.9, normal
3. (height, weight) = (1.75, 85) · BMI=27.8, normal

```
let h1 = 1.75, w1 = 55;  
let h1 = 1.75, w1 = 70;  
let h1 = 1.75, w1 = 85;
```


呼叫 calcBMI(h,w) · 用來計算 BMI 值

將三筆資料分別放入 .result1, .result2, .result3 中

=> BMI 公式

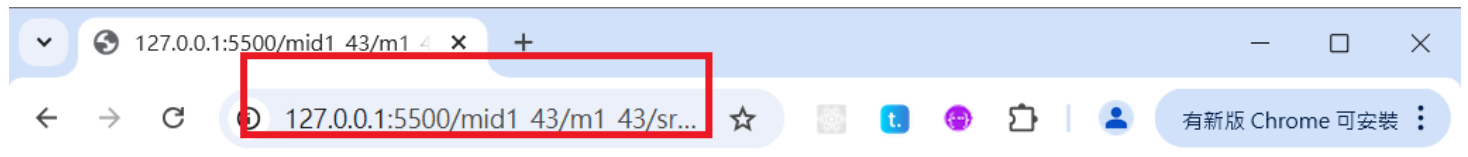
$\text{BMI} = \frac{\text{體重 (公斤)}}{\text{身高} \times \text{身高 (公尺}^2\text{)}}$	
BMI	體重狀態
過輕	< 18.5
健康	18.5 – 24
過重	24 – 27

=> Chrome 顯示

 p1_2_43.png

Your Answer

=> Chrome 顯示



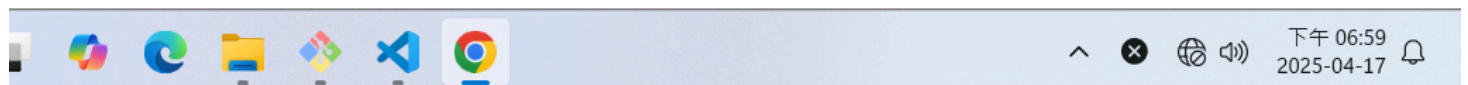
m1_43: Simple BMI

VICTOR HSU_213410243

BMI = 18.0, (h,w)=(1.75,55)

BMI = 22.9, (h,w)=(1.75,70)

BMI = 27.8, (h,w)=(1.75,85)

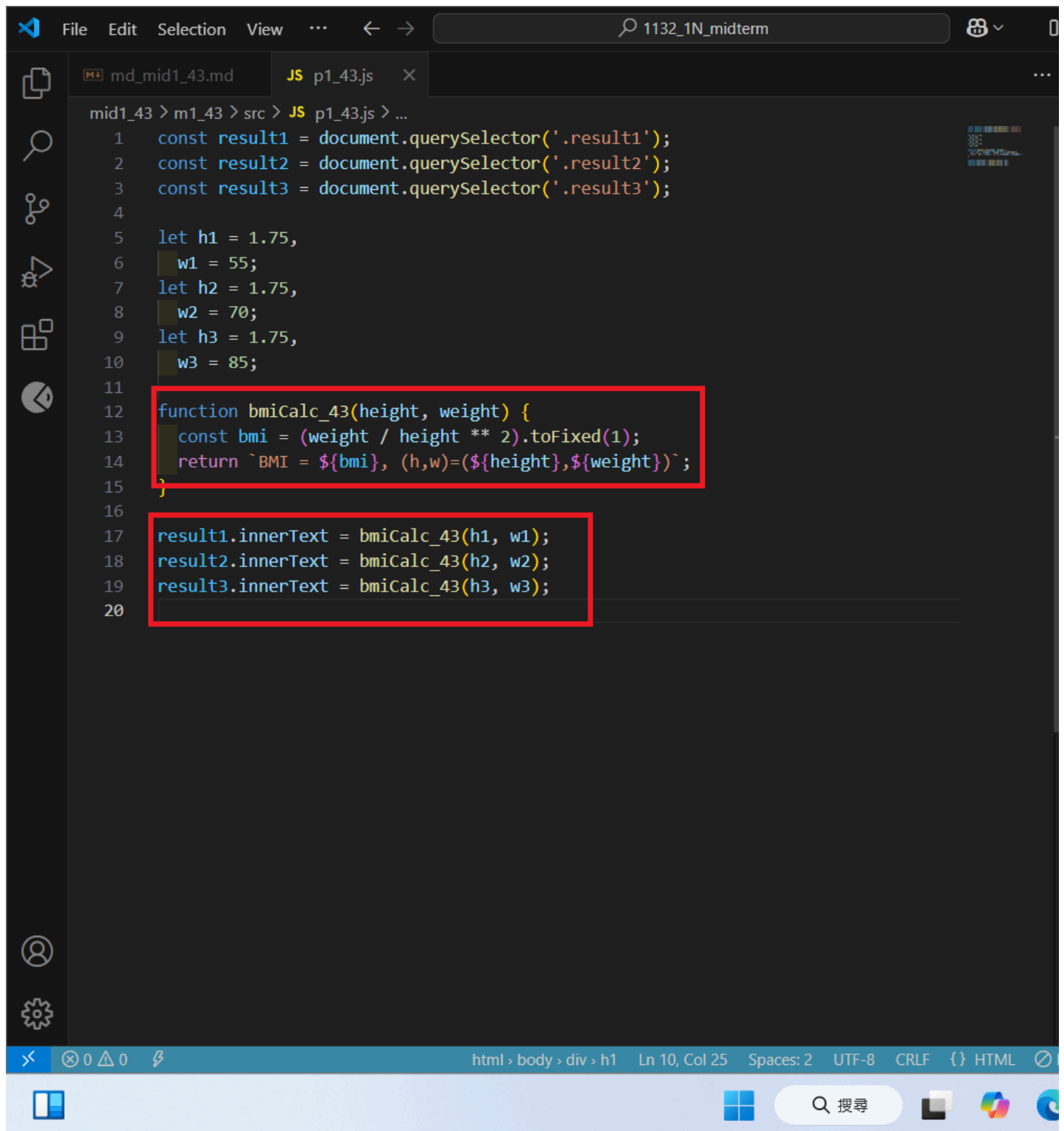


=> p1_43.html code 重點

```
1132_1N_midterm
md_mid1_htc.pdf p1_43.html X
mid1_43 > m1_43 > src > p1_43.html > html > body > div.text-center.my-8.text-emerald-900 > h1.m
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="UTF-8" />
5 <meta name="viewport" content="width=device-width,
  initial-scale=1.0" />
6 <link href="./output.css" rel="stylesheet" />
7 </head>
8 <body>
9 <div class="text-center my-8 text-emerald-900">
10 <h1 class="mt-4 font-bold text-3xl">m1_43: Simple BMI</h1>
11 <h3 class="mt-4 text-[18px] font-bold">VICTOR HSU, 213410243</
  h3>
12 <div class="result1 mt-4 font-semibold text-[22px]
  text-slate-800"></div>
13 <div class="result2 mt-4 font-semibold text-[22px]
  text-slate-800"></div>
14 <div class="result3 mt-4 font-semibold text-[22px]
  text-slate-800"></div>
15 </div>
16 <script type="module" src="./p1_43.js"></script>
17 </body>
18 </html>
19
```

html > body > div > h1 Ln 10, Col 25 Spaces: 2 UTF-8 CRLF {} HTML Port : 5500 ✓ Spell ✓ Prettier

=> p1_43.js code 重點

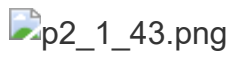


```
mid1_43 > m1_43 > src > JS p1_43.js > ...
1  const result1 = document.querySelector('.result1');
2  const result2 = document.querySelector('.result2');
3  const result3 = document.querySelector('.result3');
4
5  let h1 = 1.75,
6      w1 = 55;
7  let h2 = 1.75,
8      w2 = 70;
9  let h3 = 1.75,
10     w3 = 85;
11
12  function bmiCalc_43(height, weight) {
13      const bmi = (weight / height ** 2).toFixed(1);
14      return `BMI = ${bmi}, (h,w)=(${height},${weight})`;
15  }
16
17  result1.innerText = bmiCalc_43(h1, w1);
18  result2.innerText = bmiCalc_43(h2, w2);
19  result3.innerText = bmiCalc_43(h3, w3);
20
```

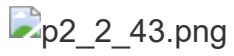
(15%) P2: 實作 m2_43，BMI 是透過圖形介面來計算及顯示

p2_43.html 除了修改個人資料外，其餘部分請勿更動。

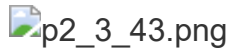
=> **Chrome 顯示 · BMI 過輕 (Underweight)**



=> **Chrome 顯示 · BMI 正常 (Normal)**



=> **Chrome 顯示 · BMI 過重 (Overweight)**



Your Answer

=> Chrome 顯示 · BMI 過輕 (Underweight)

BMI Calc

127.0.0.1:5500/mid1_43/m2_43/p2_43.html

有新版 Chrome 可安裝

m2_43: BMI Calculator

VICTOR HSU, 213410243

Height (cm):

Weight (kg):

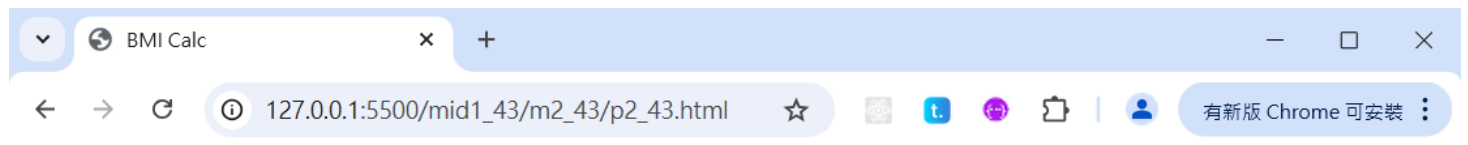
Calculate

Your BNI is 18.0. Underweight.

Gain al least 1.7kg to normal.

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=> Chrome 顯示 · BMI 正常 (Normal)



m2_43: BMI Calculator

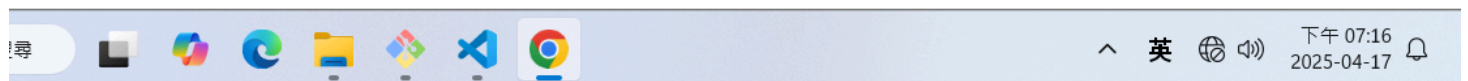
VICTOR HSU, 213410243

Height (cm):

Weight (kg):

Calculate

Your BNI is 22.9. Normal.



=> Chrome 顯示 · BMI 過重 (Overweight)

BMI Calc

127.0.0.1:5500/mid1_43/m2_43/p2_43.html

有新版 Chrome 可安裝

m2_43: BMI Calculator

VICTOR HSU, 213410243

Height (cm):
175

Weight (kg):
85

Calculate

Your BMI is 27.8. Overweight.

Reduce at least 11.5kg to normal.

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=> p2_43.js 全部的 code

```
mid1_43 > m2_43 > JS p2_43.js > calculateBMI
1  const calculateBtn = document.querySelector('.
   calculate');
2  const bmiResult = document.querySelector('.
   show-result');
3
4  const suggest = document.querySelector('.
   pive-suggestion');
5
6  function bmiCalc_43(height, weight) {
7    return (weight / height ** 2).toFixed(1);
8  }
9
10 function bmi_normal_low(height) {
11   return (18.5 * height ** 2).toFixed(1);
12 }
13
14 function bmi_normal_high(height) {
15   return (24 * height ** 2).toFixed(1);
16 }
17
18 function calculateBMI() {
19   const weight = parseFloat(document.
   querySelector('.weight').value);
20   const height = parseFloat(document.
   querySelector('.height').value) / 100;
21
22   const bmi = bmiCalc_43(height, weight);
23   const normal_low = bmi_normal_low(height);
24   const normal_high = bmi_normal_high(
   height);
25
26   let status;
27   let suggestion;
28
29   if (bmi < 18.5) {
30     status = 'Underweight';
31     suggestion = `Gain al least $
   {(normal_low - weight).toFixed(
32     1
33     )}kg to normal.`;
34   } else if (bmi <= 24) {
35     status = 'Normal';
36     suggestion = '';
37   } else {
38     status = 'Overweight';
39     suggestion = `Reduce at least ${
   (weight - normal_high).toFixed(
40     1
41     )}kg to normal.`;
42   }
43
44   bmiResult.innerHTML = `Your BNI is ${bmi}.
   ${status}.`;
45   suggest.innerHTML = suggestion;
46
47   calculateBtn.addEventListener('click',
   calculateBMI);
48 }
```


(20%) P3: 實作 m3_43，透過所給的 theme 顯示家具資訊

p3_theme.html 顯示了 6 個家具

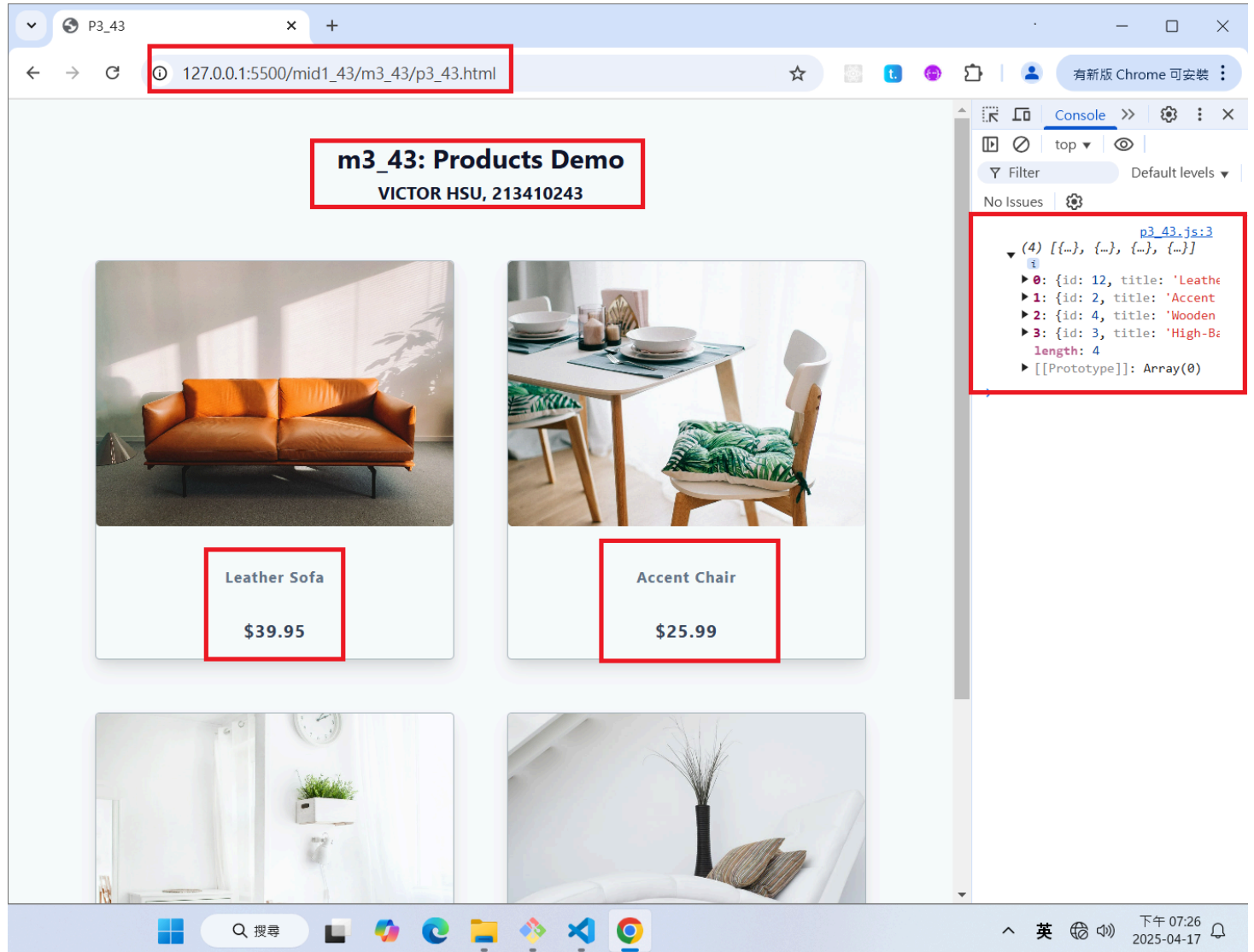
本考題要依你的學號後 4 碼取得 4 個家具，如果重複的數字，再往前取。

請以你的學號後 4 碼，取得對應的家具，如老師考試用的學號後 4 碼為 6789，因此取得 id=6,7,8,9 的家具，依學號順序，放入 js/product_data_43.js 之 mid_products_43 陣列中

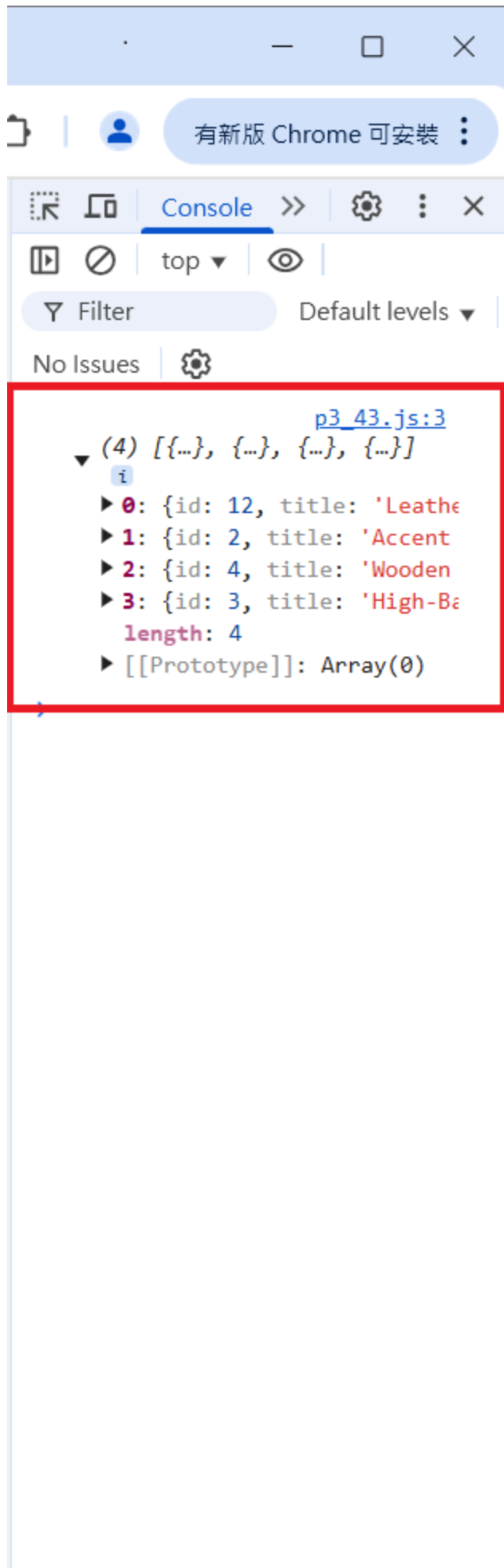
p3_43.js 要匯入 mid_products_43 來處理，並透過 console 來顯示是否已經正常讀入



=> Chrome 顯示 4 個家具



=> mid_project_43 陣列內容，截圖顯示





英



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=> p3_43.js code 全部截圖顯示



p3_43.html

JS p3_43.js



mid1_43 > m3_43 > js > JS p3_43.js > ...

```
1  import { mid_products_43 } from './
   products_data_43.js';
2
3  console.log(mid_products_43);
4
5  document.querySelector('.products-container').
   innerHTML =
6  mid_products_43.reduce((pre, { title, price,
   img }) => {
7      return (pre += `
8          <div class="single-product">
9              
14             <footer>
15                 <h5 class="name">${title}</h5>
16                 <span class="price">${price}</span>
17             </footer>
18             </div>`);
19  }, '');
20
```

