



```
> let practiceFile=[273.15];
```

```
< undefined
```

```
> practiceFile.push(42);
```

2

```
> practiceFile.push('hello');
```

3

```
> practiceFile.push('false', -4.6, "87");
```

6

```
> practiceFile;
```

```
< ► (6) [273.15, 42, 'hello', 'false', -4.6, '87']
```

Welcome

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```
> let cargoHold=['oxygen tanks','space suits','parrot','instruction manual','meal packs','slinky','security blanket'];
< undefined
> cargoHold.splice(indexOf('slinky'),1,'space tether');
✖ ▶ Uncaught ReferenceError: indexOf is not defined
   at <anonymous>:1:11
   VM742:1
> cargoHold.splice(cargoHold.indexOf('slinky'),1,'space tether');
< ▶ ['slinky']
> cargoHold;
< ▶ (7) ['oxygen tanks', 'space suits', 'parrot', 'instruction manual', 'meal packs', 'space tether', 'security blanket']
> cargoHold.pop();
< 'security blanket'
> cargoHold;
< ▶ (6) ['oxygen tanks', 'space suits', 'parrot', 'instruction manual', 'meal packs', 'space tether']
> cargoHold.shift();
< f shift() { [native code] }
> cargoHold.shift();
< 'oxygen tanks'
> cargoHold;
< ▶ (5) ['space suits', 'parrot', 'instruction manual', 'meal packs', 'space tether']
> cargoHold.unshift(1138);
< 6
> cargoHold.push('20 meters');
< 7
> cargoHold;
< ▶ (7) [1138, 'space suits', 'parrot', 'instruction manual', 'meal packs', 'space tether', '20 meters']
> cargoHold.length();
```

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```
> let cargoHold=[1138,'space suits','parrot','instruction manual','meal packs','space tether','20 meters'];  
< undefined  
  
> cargoHold.splice(3,0,'keys');  
< ► []  
  
> cargoHold  
< ► (8) [1138, 'space suits', 'parrot', 'keys', 'instruction manual', 'meal packs', 'space tether', '20 meters']  
  
> cargoHold.splice(cargoHold.indexOf('instruction manual'),1);  
< ► ['instruction manual']  
  
> cargoHold;  
< ► (7) [1138, 'space suits', 'parrot', 'keys', 'meal packs', 'space tether', '20 meters']  
  
> cargoHold.splice(2,3,...['cat','fob','string cheese']);  
< ► (3) ['parrot', 'keys', 'meal packs']  
  
> cargoHold;  
< ► (7) [1138, 'space suits', 'cat', 'fob', 'string cheese', 'space tether', '20 meters']
```

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> let holdCabinet1=['duct tape','gum',3.14,false,6.022e23];

< undefined

> let holdCabinet2=['orange drink','nerf toys','camera',42,'parsnip'];

< undefined

> holdCabinet1.concat(holdCabinet2);

< ▶ (10) ['duct tape', 'gum', 3.14, false, 6.022e+23, 'orange drink', 'nerf toys', 'camera', 42, 'parsnip']

> holdCabinet1;

< ▶ (5) ['duct tape', 'gum', 3.14, false, 6.022e+23]

> holdCabinet1.slice(1,2);

< ▶ ['gum']

> holdCabinet2.slice(1,3);

< ▶ (2) ['nerf toys', 'camera']

> holdCabinet1;

< ▶ (5) ['duct tape', 'gum', 3.14, false, 6.022e+23]

> holdCabinet1.reverse();

< ▶ (5) [6.022e+23, false, 3.14, 'gum', 'duct tape']

> holdCabinet2.sort();

< ▶ (5) [42, 'camera', 'nerf toys', 'orange drink', 'parsnip']

> holdCabinet1;

< ▶ (5) [6.022e+23, false, 3.14, 'gum', 'duct tape']

> holdCabinet2;

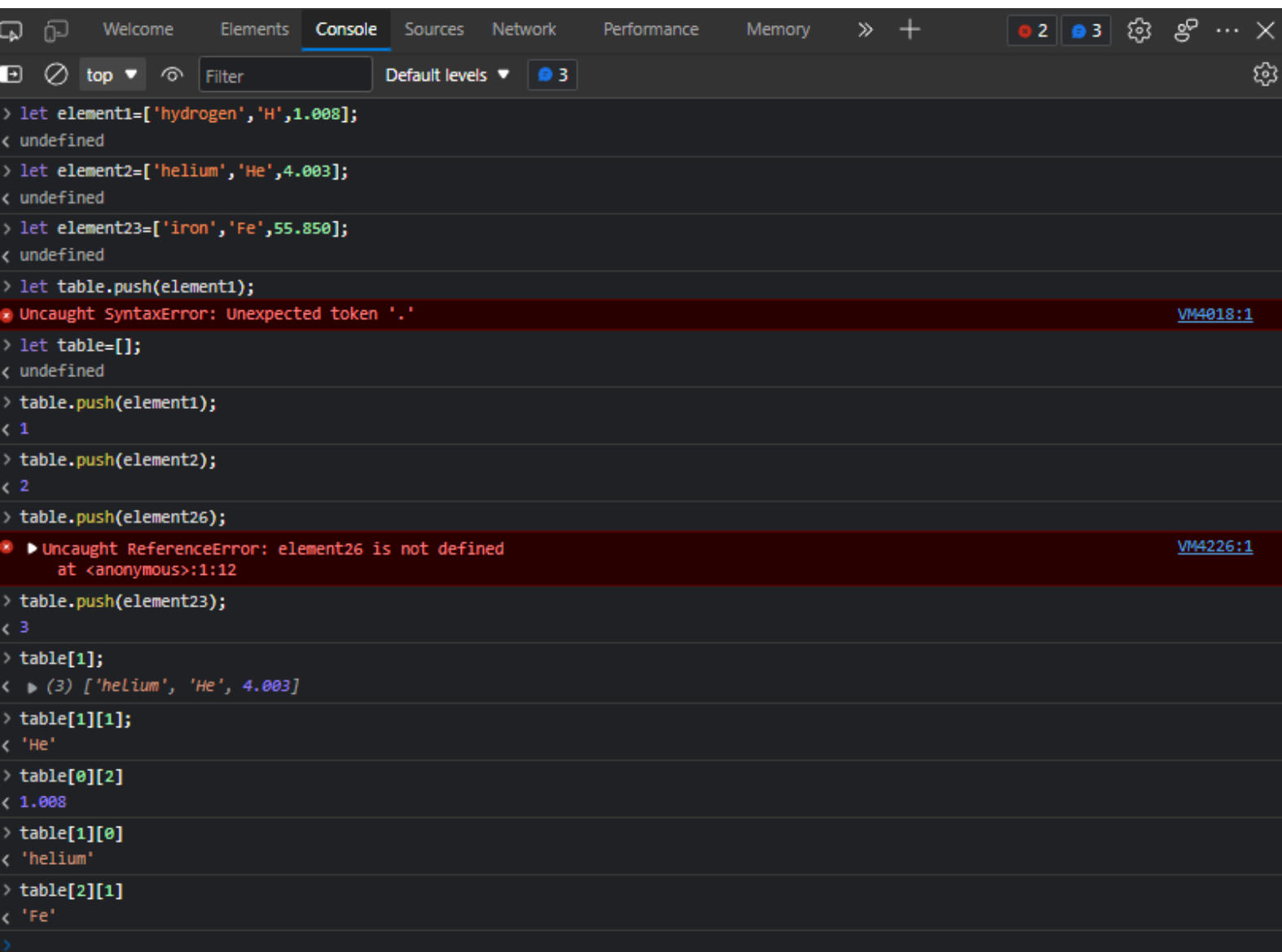
< ▶ (5) [42, 'camera', 'nerf toys', 'orange drink', 'parsnip']

>

```

> let str='In space, no one can hear you code.';
< undefined
> str.split();
< ▶ ["In space, no one can hear you code."]
> str.split('e');
< ▶ (5) ["In spac", " ", "no on", " can h", "ar you cod", "."]
> str.split(' ');
< ▶ (8) ["In", "space", " ", "no", "one", "can", "hear", "you", "code."]
> str.split('');
< ▶ (35) ["I", "n", " ", "s", "p", "a", "c", "e", " ", " ", "n", "o", " ", "o", "n", "e", " ", "c", "a", "n", " ", "h", "e", "a", "r", " ", "y", "o", "u", " ", "c", "o", "d", "e", "."]
> let arr=['B','n','n',5];
< undefined
> arr.join();
< 'B,n,n,5'
> arr.join('a');
< 'Banana5'
> arr.join(' ');
< 'B n n 5'
> arr.join('');
< 'Bnn5'
> arr;
< ▶ (4) ["B", "n", "n", 5]
> str;
< 'In space, no one can hear you code.'
//split & join does not change the original
< undefined
> let n='water,space suits,food,plasma sword,batteries';
< undefined
> n.split(',').join('');
< 'waterspace suitsfoodplasma swordbatteries'
> n.split(',').join(' ');
< 'water space suits food plasma sword batteries'
>

```



The screenshot shows a web browser's developer console with the 'Console' tab selected. The console displays several lines of JavaScript code and two error messages. The code defines three arrays representing elements: 'hydrogen' (H, 1.008), 'helium' (He, 4.003), and 'iron' (Fe, 55.850). It then attempts to push these into a 'table' array. The first error is a 'SyntaxError: Unexpected token \',\'' on the line 'table.push(element1);', which is highlighted in red. The second error is a 'ReferenceError: element26 is not defined' on the line 'table.push(element26);', also highlighted in red. The console shows the results of the 'push' operations: 1, 2, and 3 elements were added to the table. The final output shows the 'table' array structure: an array with three elements, each being an array of three items (name, symbol, weight).

```
> let element1=['hydrogen','H',1.008];
< undefined
> let element2=['helium','He',4.003];
< undefined
> let element23=['iron','Fe',55.850];
< undefined
> let table.push(element1);
Uncaught SyntaxError: Unexpected token ',' VM4018:1
> let table=[];
< undefined
> table.push(element1);
< 1
> table.push(element2);
< 2
table.push(element26);
Uncaught ReferenceError: element26 is not defined VM4226:1
> table.push(element23);
< 3
> table[1];
< ▶ (3) ['helium', 'He', 4.003]
> table[1][1];
< 'He'
> table[0][2]
< 1.008
> table[1][0]
< 'helium'
> table[2][1]
< 'Fe'
>
```

Identify your project's root folder to open source files in Visual Studio Code and sync changes. [Set root folder](#) [Don't show again](#) [Learn more](#)

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```
> let people=['Greg','Mary','Devon','James'];
< undefined
> for(let i in people){console.log(people[i]);}
Greg
Mary
Devon
James
< undefined
> people.shift();
< 'Greg'
> people.pop();
< 'James'
> people.unshift('Matt');
< 3
> people.push('Maddy');
< 4
> for(let i=0;i<people.indexOf('Mary');i++){console.log(people[i]);}
Matt
< undefined
> let n=people
< undefined
> let n=people.slice(2);
< undefined
> people.indexOf('Mary');
< 1
> people.indexOf('Foo');
< -1
> people=['Greg','Mary','Devon','James'];
< ▶ (4) ['Greg', 'Mary', 'Devon', 'James']
> people.splice(people.indexOf('Devon'),0,...['Elizabeth','Artie']);
< ▶ []
> people;
< ▶ (6) ['Greg', 'Mary', 'Elizabeth', 'Artie', 'Devon', 'James']
> let withBob=people;
< undefined
> withBob.push('Bob');
< 7
> withBob;
< ▶ (7) ['Greg', 'Mary', 'Elizabeth', 'Artie', 'Devon', 'James', 'Bob']
```

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```
> let people=['Greg','Mary','Devon','James'];
< undefined
> for(let i in people){console.log(people[i]);}
Greg
Mary
Devon
James
< undefined
> people.shift();
< 'Greg'
> people.pop();
< 'James'
> people.unshift('Matt');
< 3
> people.push('Maddy');
< 4
> for(let i=0;i<people.indexOf('Mary');i++){console.log(people[i]);}
Matt
< undefined
> let n=people
< undefined
> let n=people.slice(2);
< undefined
> people.indexOf('Mary');
< 1
> people.indexOf('Foo');
< -1
> people=['Greg','Mary','Devon','James'];
< ▶ (4) ['Greg', 'Mary', 'Devon', 'James']
> people.splice(people.indexOf('Devon'),0,...['Elizabeth','Artie']);
< ▶ []
> people;
< ▶ (6) ['Greg', 'Mary', 'Elizabeth', 'Artie', 'Devon', 'James']
> let withBob=people;
< undefined
> withBob.push('Bob');
< 7
> withBob;
< ▶ (7) ['Greg', 'Mary', 'Elizabeth', 'Artie', 'Devon', 'James', 'Bob']
```