```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

程式一讀到這個檔案的
時候，產生
global EC {
}
EC 裡面又有 VO

Terminal

global EC
global VO {

}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

先看有宣告哪些變數
並照順序
1. 參數 2. 函式 3. 變數

Terminal

global EC
global VO{
  fn: function
  a: undefined
}

```javascript
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

a 賦值為 1

Terminal

global EC
global VO{
　fn: function
　a: 1
}

```javascript
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

執行 fn()，產生
fn EC {
}
EC 裡面又有 VO

fn EC
fn VO{

}

global EC
global VO{
   fn: function
   a: 1
}

Terminal

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

先看有宣告哪些變數
並照順序
1. 參數 2. 函式 3. 變數

Terminal

fn EC
fn VO{
    fn2: function
    a: undefined
}

global EC
global VO{
    fn: function
    a: 1
}

```javascript
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要印出 a，所以去 fn 的 VO 裡面找 a 找到 undefined

Terminal

fn EC
fn VO{
  fn2: function
  a: undefined
}

global EC
global VO{
  fn: function
  a: 1
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要印出 undefined

Terminal

undefined

fn EC
fn VO{
    fn2: function
    a: undefined
}

global EC
global VO{
    fn: function
    a: 1
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

找出 a，在 VO 有 a，賦
值 5

fn EC
fn VO{
    fn2: function
    a: 5
}

global EC
global VO{
    fn: function
    a: 1
}

undefined

Terminal

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要印出 a，所以去 fn 的
VO 裡面找 a 找到 5

undefined

Terminal

fn EC
fn VO{
    fn2: function
    a: 5
}

global EC
global VO{
    fn: function
    a: 1
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要印出 5

Terminal

```
undefined
5
```

fn EC
fn VO{
　　fn2: function
　　a: 5
}

global EC
global VO{
　　fn: function
　　a: 1
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

a++ 變成 6

undefined
5

Terminal

fn EC
fn VO{
  fn2: function
  a: 6
}

global EC
global VO{
  fn: function
  a: 1
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```
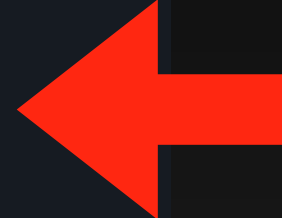
步驟解說

又宣告一次 a，不過因為 a 已經存在，所以這個宣告可以視為不存在

undefined
5

Terminal

fn EC
fn VO{
    fn2: function
    a: 6
}

global EC
global VO{
    fn: function
    a: 1
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

執行 fn2()，產生
fn2 EC {
}
EC 裡面又有 VO

Terminal

```
undefined
5
```

fn2 EC
fn2 VO{

}

fn EC
fn VO{
    fn2: function
    a: 6
}

global EC
global VO{
    fn: function
    a: 1
}
```

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

先看有宣告哪些變數
並照順序
1. 參數 2. 函式 3. 變數
都沒有宣告，所以 VO 是
空的

```
undefined
5
```

Terminal

fn2 EC
fn2 VO{

}

fn EC
fn VO{
    fn2: function
    a: 6
}

global EC
global VO{
    fn: function
    a: 1
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要印出 a 的值，所以去 fn2 VO 找 a，找不到 a

往外層找，找到 fn VO 找到 a 是 6

Terminal

```
undefined
5
```

fn2 EC
fn2 VO{

}

fn EC
fn VO{
    fn2: function
    a: 6
}

global EC
global VO{
    fn: function
    a: 1
}
```

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

印出 6

Terminal

```
undefined
5
6
```

fn2 EC
fn2 VO{

}

fn EC
fn VO{
    fn2: function
    a: 6
}

global EC
global VO{
    fn: function
    a: 1
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要賦上 a 新的值，所以去 fn2 VO 找 a ，找不到 a

往外層找，找到 fn VO 找到 a ，所以賦值為 20

fn2 EC
fn2 VO{

}

fn EC
fn VO{
　fn2: function
　a: 20
}

global EC
global VO{
　fn: function
　a: 1
}

```
undefined
5
6
```

Terminal

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要賦上 b 新的值，所以去 fn2 VO 找 b，找不到

往外層 fn VO 找，也找不到

往外層 global VO 找，也找不到，於是在 global VO 宣告 b，賦值為 100

fn2 EC
fn2 VO{

}

fn EC
fn VO{
    fn2: function
    a: 20
}

global EC
global VO{
    fn: function
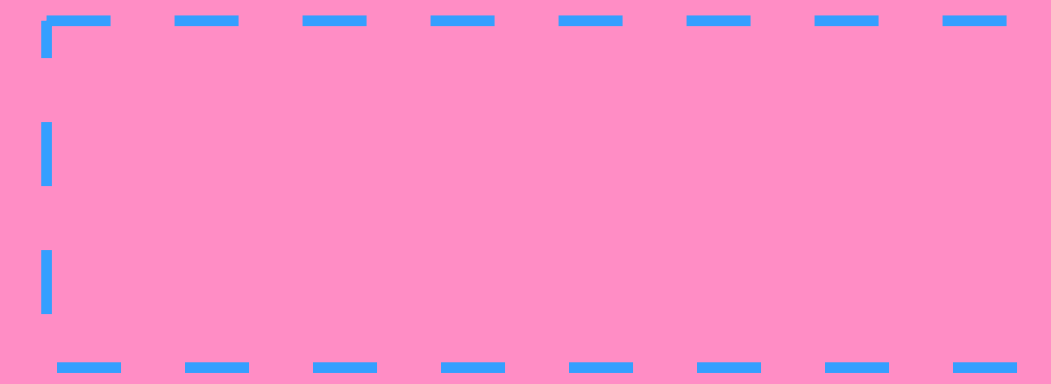   a: 1
    b: 100
}

```
undefined
5
6
```

Terminal

```javascript
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

fn2 執行完畢， fn2 EC
VO 關閉

```
undefined
5
6
```

Terminal

fn EC
fn VO{
    fn2: function
    a: 20
}
global EC
global VO{
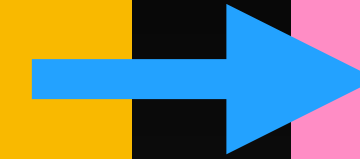   fn: function
    a: 1
    b: 100
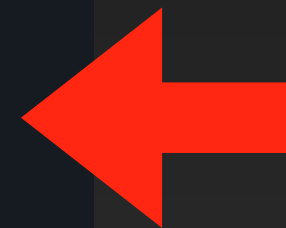}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要印出 a，所以去 fn 的
VO 裡面找 a 找到 20

```
undefined
5
6
```

fn EC
fn VO{
    fn2: function
    a: 20
}
global EC
global VO{
    fn: function
    a: 1
    b: 100
}

Terminal

```javascript
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要印出 20

Terminal

```
undefined
5
6
20
```

fn EC
fn VO{
　　fn2: function
　　a: 20
}
global EC
global VO{
　　fn: function
　　a: 1
　　b: 100
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

fn 執行完畢， fn EC VO
關閉

```
undefined
5
6
20
```

Terminal

global EC
global VO{
    fn: function
    a: 1
    b: 100
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要印出 a 的值，所以去 global VO 找 a，值是 1

Terminal

```
undefined
5
6
20
```

global EC
global VO{
  fn: function
  a: 1
  b: 100
}

```javascript
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要印出 1

Terminal

```
undefined
5
6
20
1
```

global EC
global VO{
   fn: function
   a: 1
   b: 100
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要賦上 a 新的值，在 global VO 找到 a ，並賦上值 10

undefined
5
6
20
1

global EC
global VO{
  fn: function
  a: 10
  b: 100
}

Terminal

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要印出 a，所以找到
a，值是 10

```
undefined
5
6
20
1
```

Terminal

global EC
global VO{
  fn: function
  a: 10
  b: 100
}

```javascript
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

印出 10

```
undefined
5
6
20
1
10
```

Terminal

global EC
global VO{
    fn: function
    a: 10
    b: 100
}

```javascript
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

要印出 b，所以找到
b，值是 100

```
undefined
5
6
20
1
```

Terminal

global EC
global VO{
  fn: function
  a: 10
  b: 100
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

印出 100

```
undefined        100
5
6
20
1
10
```

Terminal

global EC
global VO{
  fn: function
  a: 10
  b: 100
}

```
var a = 1
function fn(){
  console.log(a)
  var a = 5
  console.log(a)
  a++
  var a
  fn2()
  console.log(a)
  function fn2(){
    console.log(a)
    a = 20
    b = 100
  }
}
fn()
console.log(a)
a = 10
console.log(a)
console.log(b)
```

步驟解說

執行結束， global EC
VO 關閉

```
undefined     100
5
6
20
1
10
```

Terminal