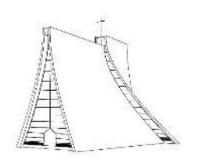


運算思維與程式設計

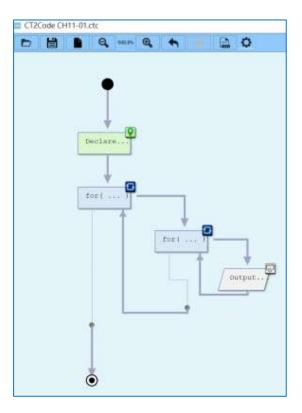
CH12 進階迴圈控制





巢狀迴圈 (Nested Loops)

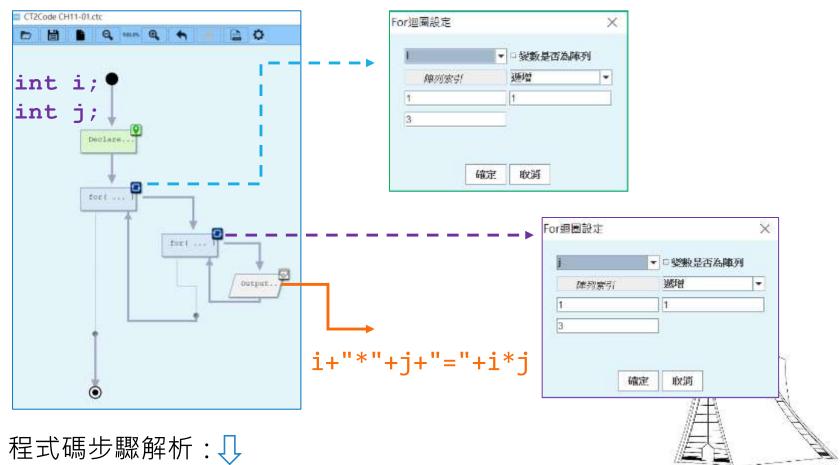
迴圈結構內又有其它迴圈存在的情況



```
for (初始值1; 條件式1; 遞增值1)
  for (初始值2; 條件式2; 遞增值2)
      敍述句;
```

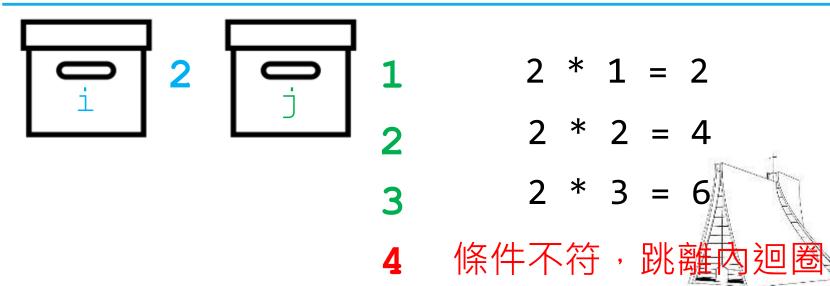


範例

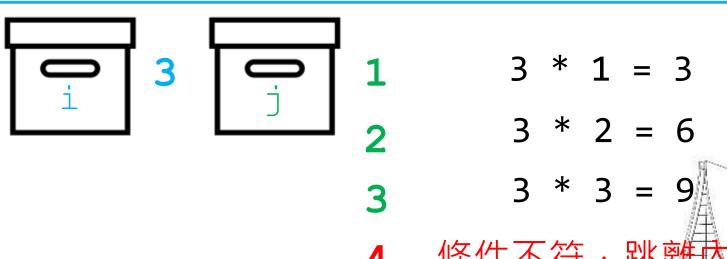


```
for( i = 1; i <= 3; i = i + 1)
{
    for( j = 1; j <= 3; j = j + 1)
    {
        System.out.println(i+"*"+j+"="+i*j);
    }
}</pre>
```

```
for( i = 1; i <= 3; i = i + 1)
{
    for( j = 1; j <= 3; j = j + 1)
    {
        System.out.println(i+"*"+j+"="+i*j);
    }
}</pre>
```



```
for( i = 1; i \le 3; i = i + 1)
   for (j = 1; j \le 3; j = j + 1)
      System.out.println(i+"*"+j+"="+i*j);
```





隨堂演練

- 1. 修改課堂範例,完成九九乘法表!
- 2. 輸入一數字N,列出小於等於此數字N的所有質數? 例如:

請輸入一數字:

你所輸入的數字為 13,小於等於13的質數有:

2, 3, 5, 7, 11, 13 •



Thank You!