## Advance

- For statement
  - Single statement for 每次進入迴圈前會先檢查條件,條件符合時才會執行 statement,不符合時則跳出迴圈。
  - C's for loop 先初始化條件變數 i=0 後執行 statement, statement 執行完後會判斷變 數是否在範圍內,若在範圍內則繼續執行,超出範圍時則跳出迴圈。
- 測資執行截圖

```
user@user-VirtualBox:~/2018_compiler/hw3_stu$ java main
0
1
2
3
4
5
6
7
8
9
0
1
2
3
4
5
5
6
7
8
9
10
11
12
13
14
```

Single statement

```
ldc 0
istore 0
goto for 1
for_1:
iload 0
ldc 10
if icmpge end for 1
iload 0
getstatic java/lang/System/out Ljava/io/PrintStream;
                ;swap the top two items on the stack
invokevirtual java/io/PrintStream/println(I)V
iload 0
ldc 1
iadd
istore 0
goto for 1
end_for_1:
```

## C's for loop

```
ldc 5
istore 1
ldc 0
istore 0
goto for_2
for 2:
iload 0
getstatic java/lang/System/out Ljava/io/PrintStream;
                ;swap the top two items on the stack
invokevirtual java/io/PrintStream/println(I)V
iload 0
ldc 1
iadd
istore 0
iload 0
ldc 15
if_icmpge end_for_2
goto for_2
end_for_2:
```