#### Nicholas Carmello

```
Input:
{
int a
while (a==3){
  print(a)
}}$
```

#### **Output**

## SvegOutput:

**Nothing** 

### Input:

```
{
int a
while (a!=3){

print(a)

}}$
```

#### Output:

## SvegOutput:

0 repeated

#### Input:

```
{
print((1==1))
print((1!=1))
print((true==true))
print((false==false))
print(("hello world" == "hello world"))
}$
```

## **Output:**

### **Sveg output:**

Truefalsetruetrue

## Input:

```
{
  int a
  a = 3
  if(a == 3){
  print(a)
  }
  print(a)
}
```

### **Output:**

## SvegOutput:

33

## Input:

```
{
int a
a = 3
if(a != 3){
print(a)
}
print(a)
}
```

A9 00 8D 2f 00 A9 03 8D 2f 00 A2 03 EC 2f 00 D0 7 A2 01 EC FF 00 D0 b AC 2f 00 A2 01 FF 00 00 00 00 00 66 61 6c 73 65 00 74 72 75 65 00

#### SvegOutput:

3

## Input:

```
/* This statement shows that addition
- checking and printing are both valid
- options that can be performed. Credit: Tien
- Result: 666addition checkfalse*/
int a
while (a != 3) {
print(1 + 2 + 3)
a = 1 + a
if (1+1+1+1+1==2+3) {
print("addition check")
if (1+5+3!= 8) {
print(false)
}
} $
```

#### **Output:**

A9 00 8D 6a 00 A2 03 EC 6a 00 D0 7 A2 01 EC FF 00 D0 19 A0 6 A2 01 FF A9 00 8D FF 00 A9 1 6D 6a 00 8D 6a 00 A2 01 EC FF 00 D0 d9 A9 5 8D FF 00 A2 5 EC FF 00 A9 00 8D FF 00 D0 a A0 e6 A2 02 FF A9 00 8D FF 00 A9 9 8D FF 00 A2 8 EC FF 00 A9 00 8D FF 00 D0 7 A2 68 65 63 6b 00 66 61 6c 73 65 00 74 72 75 65 00

```
SvegOutput:
666addition checkfalse
Input:
{
int a
a = 1
if("a" == "a") {
a = 2
print("a now is two")
if(a != 1) {
a = 3
print(" a now is three")
}
if(a == 1) {
a = 3
print("this does not print")
}
while true {
print(" this will always be true hahahahahaha")
}
if false {
print("this")
}
} $
```

```
SvegOutput:
```

```
print("a now is two")

print("a now is three")

Infinite loop now

Input:
/*

Demonstrates compiler's ability to generate code that properly handles variable addition

Credit: Tien

*/
{
```

print(b)
}\$

int a a = 1 int b b = 1 b = 1 + a

a = 1 + a

print(a)
print(" ")

print("int a is ")

print("int b is ")

while (2 + a != 3 + b) {

## SvegOutput:

Int a 2 Int a is 3 int b is 2

```
Input:
{
    if(1==1){
        if(1+1 == 1){
        print(2)
    }
    print(5)
}
```

### Input:

```
/* This test case demonstrates boolean
- printing and different scope repetitive
- variable names.
- Result: inta true 5 */
{
  int a
  boolean b
     string c
     a = 5
     b = true
     c = "inta"
     print(c)
  }
  string c
  c = " "
  print(c)
  print(b)
  print(" ")
  print(a)
```

# SvegOs:

Inta true 5