

National University of Singapore  
School of Computing  
CS1101S: Programming Methodology  
Semester I, 2024/2025  
**S12-in-class**

**Problems:**

1. Compare the Source Academy and the CSE machine with respect to their behaviour when evaluating the following program:

```
const x = y;  
const y = 42;  
const z = "***" + x + "***";  
z;
```

Explain the behaviour of the CSE machine. Modify the [Final CSE Machine](#) of the lecture such that it behaves like the Source Academy with respect to the situation exemplified in the program.