Diverging Assessment for Academic Integrity

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Project Motivation



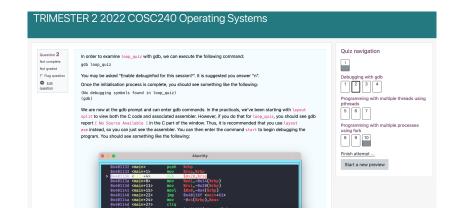
- ► More assessment moving online
 - Authenticity
 - Online exams
 - Electronic invigilators
- ► More academic misconduct
 - ► Plagiarism
 - Collusion
 - ► Use of Al

Assessment as Learning in Computer Science

- Assignment looks the same to all students
 - Each student has different input data
- Students encouraged to work together
 - ► Must do assignment on their own
- ► Reduces plagiarism and collusion!



Assessment as Learning in COSC240 - Practice Quiz



Assessment as Learning in COSC240 - Diverging Assessment

Introduction

These are your personalised instructions for Assessment 4 - Programming Task for COSC240, T2, 2022. They should be read in conjunction with the assessment information available on Moodle.

Problem Description

Consider the following C code:

```
#include <stdio.h>
#include <stdlib.h>
// The values being used by this program
#define VALUE MULTIPLIER 2
#define VALUE ADDED 1
#define VALUES SIZE 5
int values[] = {5, 7, 2, 4, 9};
// The value being calculated by this program
int total = 0;
// Perform a calculation on the given value
int calculate value(int value) {
    return VALUE_MULTIPLIER * value + VALUE_ADDED;
// Program entry point
// Command line arguments are ignored
int main(int argc, char *argv[]) {
    for (int i = 0: i < VALUES SIZE: i++) {
        total += calculate_value(values[i]);
   printf("%d\n", total):
```

Against Collusion and Generative Al



- Collaboration useful
 - Allows students to help each other
- Collusion means doing it more than once
 - Which helps ensure learning
- Formats not understood by generative AI

Thank You

- Diverging assessment through assessment as learning
 - ▶ Helps students take responsibility for their own learning
 - Helps maintain academic integrity
 - ► Works well for COSC240
- Any questions/comments?
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