# SENG3320 Assignment 2: Automated Test Data Generation

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## Question 1: Fuzz Testing

### Test Tool Design

### Test Environment

### Test Cases

### Summary

## Question 2: Automated Testing Techniques

### Symbolic Execution

### Fuzz Testing

The idea of Fuzz Testing on this question is to apply random integers for variables a, b, and c to examine the outcome of the triangle (int a, int b, int c).  
  
Fuzz Testing structure:  
>FuzzTesting (Q2 Fuzz Testing task folder)

FuzzInput\_Output.txt (contain the input & output test case result)

FuzzTesting.c (Fuzz test case generator)

FuzzTesting.exe (Fuzz test case generator executor)

triangle. c (Given c program for Fuzz Testing)  
  
Compare the test results of Fuzz testing and symbolic execution:

|  |  |
| --- | --- |
| **Control-flow coverage achieved:** | |
| Fuzz Testing: | Symbolic testing: |
| **Time spent:** | |
| Fuzz Testing: | Symbolic testing: |

### Mutation Testing

### Comparison