CSE435 Introduction to EDA & Testing - Spring 2022
Homework Assignment #5
Shao-Hsuan Chu - B073040018

About Path-Oriented Decision Making (PODEM), please answer the following questions according to Figure 1.

1-4 PODEM (See Figure 1)

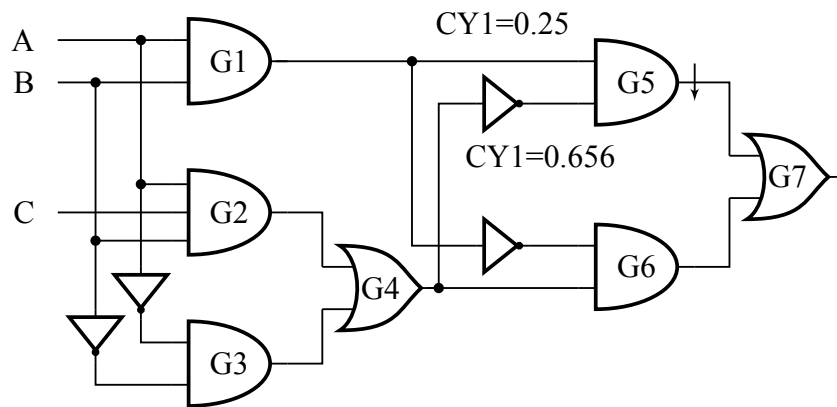1. (15%) Derive the effective test set for G5 SA0 by PODEM

Figure 1

> **Solution:**

2. (15%) Derive the effective test set for G5 SA0 by PODEM with More Intelligent Backtracing

> **Solution:**

3. (15%) Derive the effective test set for G5 SA0 by PODEM with Unguided Backtracing

> **Solution:**

4. (15%) Please compare the above (1), (2), (3). [Chapter 10, slides 7-23]

> **Solution:**

5. (15%) What are the difference between Backtracking and Backtracing? Please show by example.

> **Solution:**
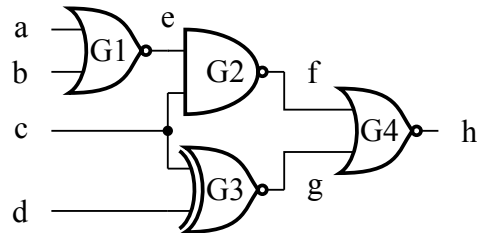
6. (25%) FAN (See Figure 2)

Figure 2

(a) (15%) Generate a test for the fault f-sa1 by using FAN algorithm.

> **Solution:**

(b) (10%) What are the differences between PODEM and FAN?

> **Solution:**