

Exercise 1:

Let us suppose we are developing a compiler for the BASIC language. An excerpt from the specifications states:

"The FOR statement accepts only one parameter as an auxiliary variable. Its name must not exceed two non-whitespace characters. Following the = sign, both an upper bound and a lower bound are specified. The bounds are positive integers, and the keyword `TO` is placed between them."

- Using **partition analysis** of the input data domains, determine the test cases to be generated for the FOR statement

Exercise 2:

Develop the Cause-Effect graph for the following problem statement and then generate test cases.

“**Problem:** A tourist of age greater than 21 years and having a clean driving record is supplied a rental car. A premium amount is also charged if the tourist is on business, otherwise it is not charged. If the tourist is less than 21 year old, or does not have a clean driving record, the system will display the following message: ‘Car cannot be supplied’.”