Specification Based Testing - Part 1 Cause Effect Analysis



Objective



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Apply causeeffect testing technique

Cause-Effect Analysis

Necessary for testing functions where combinations of inputs must be tested together

Utilizes decision tables and decision trees

Example

Consider a function which has two input variables, Customer and Order, and one output variable, Discount. Customer may be of type A, B or C and Order has a range of 1 to 1000. The function computes Discount which is based on Customer type and Order. For this example, assume the following rules apply.

- Customers of type A receive a 0% discount for less than 10 items, 5% discount for 10 to 99 items, 10% discount for 100 or more items.
- Customers of type B receive a 5% discount for less than 10 items, 15% discount for 10 to 99 items, 25% discount for 100 or more items.
- 3. Customers of type C receive a 0% discount for less than 10 items, 20% discount for 10 to 99 items, 25% discount for 100 or more items.

Test Matrix

Partitions 2 3 4 5 6 7 8 9 Α В Order < 10 10 < order < 100 100 < order < 1000 Results Discount 0% Discount 5% Discount 10% Discount 15% Discount 20% Discount 25%



Summary