

Workshop 6 (Week 7) – Combinatorial Testing

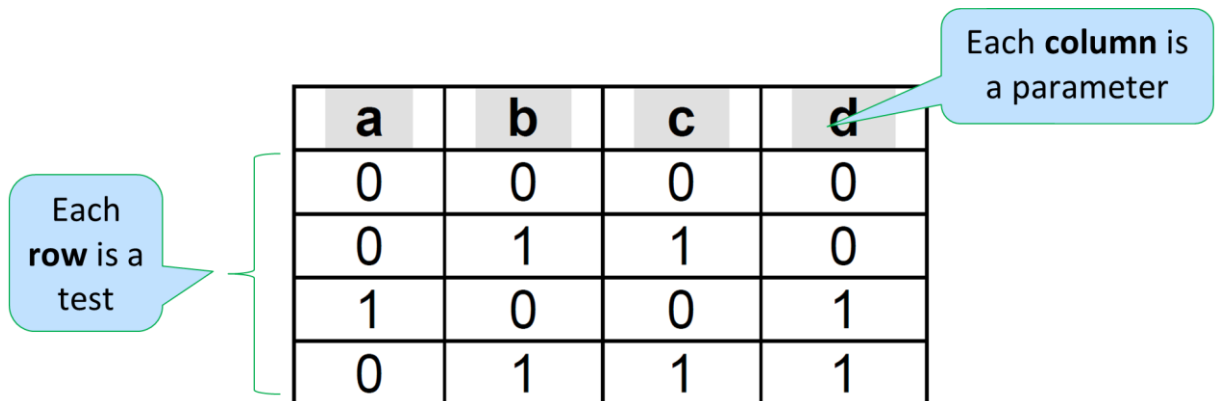
The purpose of this workshop is to practice and develop an understanding of combinatorial testing.

1. Concepts

- 1) What is combinatorial testing?
- 2) What is t-Way coverage?
- 3) How does the IPO Algorithm work?

2. The quiz

- 1) Of the six possible 2-way variable combinations, ab, ac, ad, bc, bd, cd, only ____ and ____ have all four binary values covered.
- 2) How to add more tests so that we can achieve a 100% 2-way coverage?



a	b	c	d
0	0	0	0
0	1	1	0
1	0	0	1
0	1	1	1

Each **row** is a test

Each **column** is a parameter

3. Pairwise coverage

- 1) A software application supports three types of Browsers (Safari, IE, and Chrome), three types of network connection (LAN, ISDN, and PPP), three types of OS (Windows, Linux, and MacOS). Design test cases to achieve 100% pairwise coverage.
- 2) The above software application adds support for three types of printers (Local Printer, Network Printer, and Screen). Design test cases to achieve 100% pairwise coverage.

4. Try the Web: Code In Game

<https://www.codingame.com/ide/puzzle/aneo>