

Robustness Testing

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- In robustness testing, the software is tested by giving invalid values as inputs. Robustness testing is usually done to test exception handling.
- In robust boundary value testing, we make combinations in such a way that some of the invalid values are also tested as input.

Suppose we have 3 variables X, Y and Z to test

The range of X: 0 to 100

The range of Y: 20 to 60

The range of Z: 80 to 100

	X	Y	Z
Min-	-1	19	79
Min	0	20	80
Min+	1	21	81
Nominal	50	40	90
Max-	99	59	99
Max	100	60	100
Max+	101	61	101

Test Case#	X	Y	Z	Comment
1	50	40	79	Fix Nominal of X and Y
2	50	40	80	Fix Nominal of X and Y
3	50	40	81	Fix Nominal of X and Y
4	50	40	90	Fix Nominal of X and Y
5	50	40	99	Fix Nominal of X and Y
6	50	40	100	Fix Nominal of X and Y
7	50	40	101	Fix Nominal of X and Y
8	50	19	90	Fix Nominal of X and Z
9	50	20	90	Fix Nominal of X and Z
10	50	21	90	Fix Nominal of X and Z
11	50	59	90	Fix Nominal of X and Z
12	50	60	90	Fix Nominal of X and Z
13	50	61	90	Fix Nominal of X and Z
14	-1	40	90	Fix Nominal of Y and Z
15	0	40	90	Fix Nominal of Y and Z
16	1	40	90	Fix Nominal of Y and Z
17	99	40	90	Fix Nominal of Y and Z
18	100	40	90	Fix Nominal of Y and Z
19	101	40	90	Fix Nominal of Y and Z

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The range of X: 0 to 100

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The range of Z: 80 to 100

	X	Y	Z
invalid value Min-	-1	19	79
Min	0	20	80
Min+	1	21	81
Nominal	50	40	90
Max-	99	59	99
Max	100	60	100
invalid value Max+	101	61	101

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12	50	60	90	Fix Nominal of X and Z
13	50	61	90	Fix Nominal of X and Z
14	-1	40	90	Fix Nominal of Y and Z
15	0	40	90	Fix Nominal of Y and Z
16	1	40	90	Fix Nominal of Y and Z
17	99	40	90	Fix Nominal of Y and Z
18	100	40	90	Fix Nominal of Y and Z
19	101	40	90	Fix Nominal of Y and Z