



WhiteBox Testing

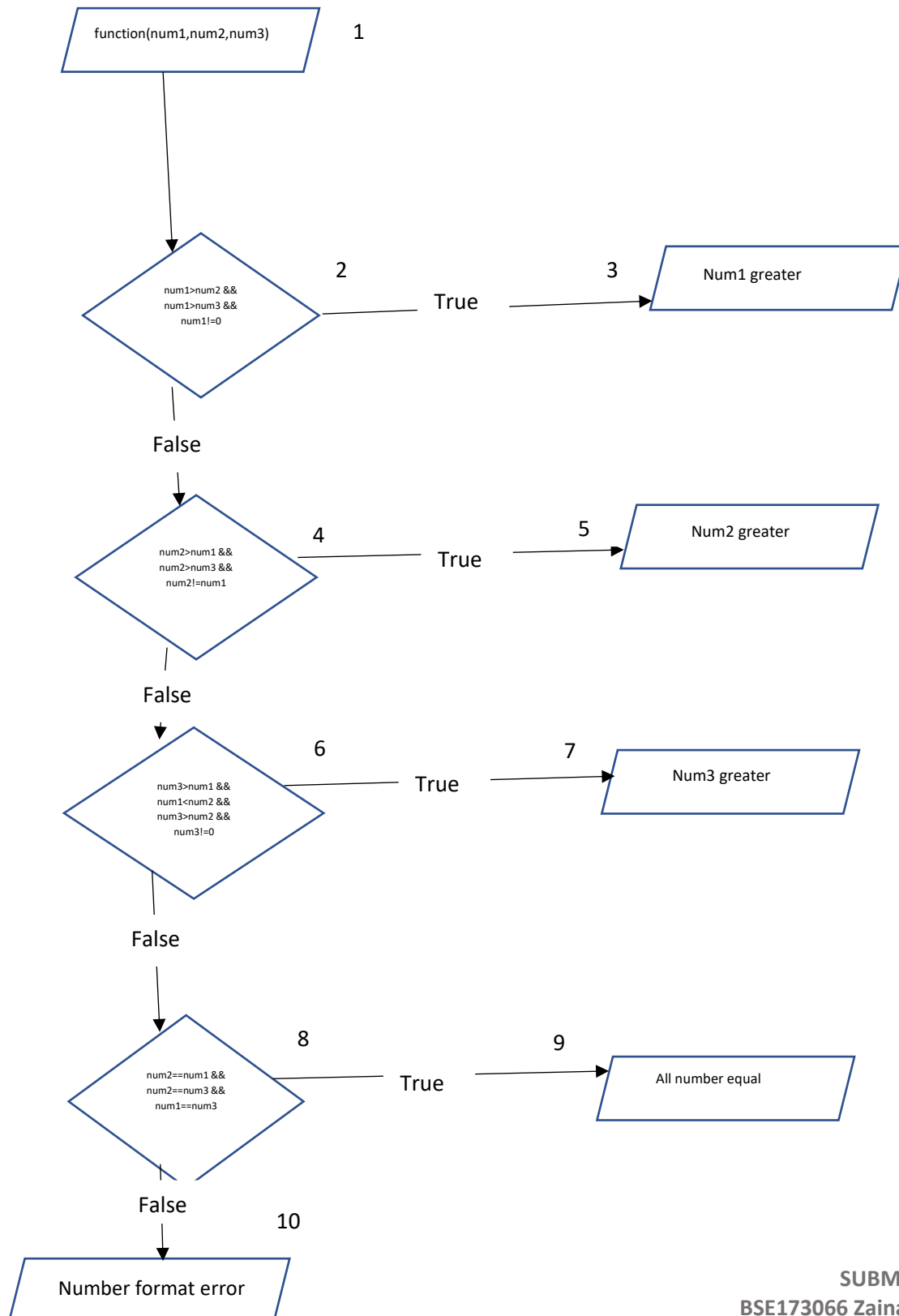
Software Testing

FLOW CHART MCDC PATH PREDICTION TEST ORACLE

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FLOW CHART:



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MCDC:

1. DECISION STATEMENT

FOR: num1>num2 && num1>num3 && num1!=0

INPUT			EXPECTED OUTPUT
num1	num2	num3	num1>num2 && num1>num3 && num1!=0
T	T	T	T
T	T	F	F
T	F	T	F
T	F	F	F
F	T	T	F
F	T	F	F
F	F	T	F
F	F	F	F

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1.1 IMPLEMENTATION

FOR: num1>num2 && num1>num3 && num1!=0

INPUT			EXPECTED OUTPUT
num1	num2	num3	num1>num2 && num1>num3 && num1!=0
15	7	9	T
34	6	71	F
6	23	3	F
753	511	3	F
foo	22	2	F
444	32	5	F
90	444	4	F
0	0	0	F

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2 DECISION STATEMENT

FOR: num2>num1 && num2>num3 && num2!=num1

INPUT			EXPECTED OUTPUT
num1	num2	num3	num2>num1 && num2>num3 && num2!=num1
T	T	T	T
T	T	F	F
T	F	T	F
T	F	F	F
F	T	T	F
F	T	F	F
F	F	T	F
F	F	F	F

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2.1 IMPLEMENTATION

FOR: num2>num1 && num2>num3 && num2!=num1

INPUT			EXPECTED OUTPUT
num1	num2	num3	num2>num1 && num2>num3 && num2!=num1
1	7	6	T
4	6	7	F
1	foo	0	F
753	511	3	F
541	974	222	F
444	32	5	F
90	444	4	F
0	0	0	F

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3 DECISION STATEMENT

FOR: num3>num1 && num3>num2 && num3!=0

INPUT			EXPECTED OUTPUT
num1	num2	num3	num3>num1 && num3>num2 && num3!=0
T	T	T	T
T	T	F	F
T	F	T	F
T	F	F	F
F	T	T	F
F	T	F	F
F	F	T	F
F	F	F	F

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3.1 IMPLEMENTATION

FOR: num3>num1 && num3>num2 && num3!=0

INPUT			EXPECTED OUTPUT
num1	num2	num3	num3>num1 && num3>num2 && num3!=0
1	5	6	T
8	7	Foo	F
10	9	8	F
753	511	3	F
10	5	goo	F
444	32	5	F
90	444	4	F
0	0	0	F

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4 DECISION STATEMENT

FOR: num2==num1 && num2==num3 && num1==num3

INPUT			EXPECTED OUTPUT
num1	num2	num3	num2==num1 && num2==num3 && num1==num3
T	T	T	T
T	T	F	F
T	F	T	F
T	F	F	F
F	T	T	F
F	T	F	F
F	F	T	F
F	F	F	F

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4.1 IMPLEMENTATION

FOR: num3>num1 && num3>num2 && num3!=0

INPUT			EXPECTED OUTPUT
num1	num2	num3	num2==num1 && num2==num3 && num1==num3
1	1	1	T
8	7	Foo	F
10	9	8	F
753	511	3	F
10	5	goo	F
444	32	5	F
90	444	4	F
0	0	0	F

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PATH PREDICTION

- **FOR: num1>num2 && num1>num3 && num1!=0**
Path: 1 -> 2 -> 3
- **FOR: num2>num1 && num2>num3 && num2!=num1**
Path: 1 -> 2 -> 4 -> 5
- **FOR: num3>num1 && num3>num2 && num3!=0**
Path: 1 -> 2 -> 4 -> 6 -> 7
- **FOR: num2==num1 && num2==num3 && num1==num3**
Path: 1 -> 2 -> 4 -> 6 -> 8 -> 9
- **FOR: IF NO CONDITION IS TRUE**
Path: 1 -> 2 -> 4 -> 6 -> 8 -> 10

TEST ORACLE

INPUT			PATH	EXPECTED OUTPUT	ACTUAL OUTPUT
Num1	Num2	Num3			
6	3	1	1 -> 2 -> 3	6 is greater	6 is greater
1	6	3	1 -> 2 -> 4 -> 5	6 is greater	6 is greater
3	1	6	1->2->4->6->7	6 is greater	6 is greater
1	1	1	1 -> 2 -> 4 -> 6 -> 8 -> 9	All are same	All are same
foo	4	6	1 -> 2 -> 4 -> 6 -> 8 -> 10	Number format error	Number format error

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