



Branch Testing

	a	b	c	d	Covered Branches
Test Case #1	12	12	13	14	4T, 6F, 8F, 10F
Test Case #2	0	0	0	0	4T, 6T, 8T, 10F
Test Case #3	9	14	12	13	4F, 6F, 8F, 10T, 11T, 13T, 15T, 17F, 19T, 20T, 21T
Test Case #4	12	4	1	2	4F, 6F, 8F, 10T, 11T, 13F
Test Case #5	5	11	5	5	4F, 6F, 8F, 10T, 11T, 13T, 15F, 17T, 19F
Test Case #6	29	77	29	35	4F, 6F, 8F, 10T, 11T, 13T, 15F, 17F, 19T, 20F, 21T
Test Case #7	77	29	35	29	4F, 6F, 8F, 10T, 11T, 13T, 15F, 17F, 19T, 20T, 21F

11F is not executable.

Coverage = (21/22) x 100 = 95.45%

Multiple-Condition testing

Predicate 6

a<=0	b<=0	Test Case	a	b	c	d
F	F	Covered in Test Case #1				
F	T	Test Case #8	12	0	13	14
T	F	Test Case #9	0	12	13	14
T	T	Covered in Test Case #2				

Predicate 8

c<=0	d<=0	Test Case	a	b	c	d
F	F	Covered in Test Case #1				
F	T	Test Case #10	12	13	14	0
T	F	Test Case #11	12	13	0	14
T	T	Covered in Test Case #2				

Predicate 15

c==h	d==h	Test Case	a	b	c	d
F	F	Covered in Test Case #5				
F	T	Test Case #12	9	14	13	12
T	F	Covered in Test Case #3				
T	T	No test case				

Predicate 20

a!=c	a!=d	Test Case	a	b	c	d
F	F	No test case				
F	T	Covered in Test Case #6				
T	F	Test Case #13	29	77	35	29
T	T	Covered in Test Case #3				

Predicate 21

b!=c	b!=d	Test Case	a	b	c	d
F	F	No test case				
F	T	Test Case #14	77	29	29	35
T	F	Test Case #15	77	29	35	29
T	T	Covered in Test Case #3				