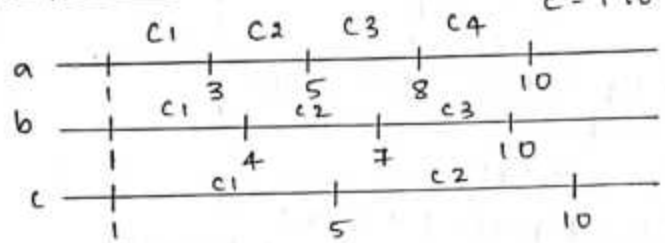
Equivalence class Testing

Triangle problem

a = 1 to 10
b = 1 to 10
c = 1 to 10



(i) Weak Normal Equivalence class Testing

	C1	C2	C3	C4
a	2	5	7	9
b	2	7	9	
c	5	9		

variable which is having highest number of classes = 4TC

(2,2,5) - Not a Triangle
(5,7,9) - Scalene Triangle
(7,9,9) - Isosceles Triangle
(9,9,9) - Equelateral Triangle

(ii) Strong Normal Equivalence class Testing

a = 4 b = 3 c = 2

a * b * c = 4 × 3 × 2 = 24TC

(2,5,7,9) × (2,7,9) × (5,9)

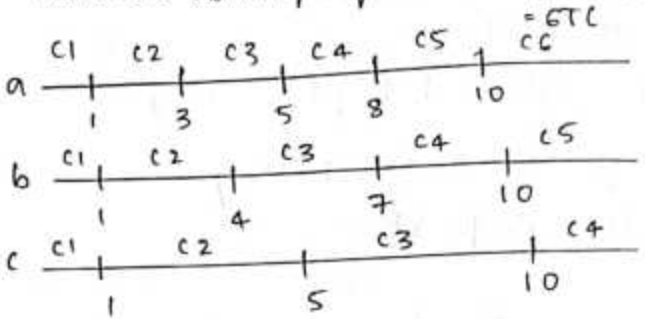
{(2,2,5)(2,2,9)(2,7,5)(2,7,9)(2,9,5)(2,9,9)
(5,2,5)(5,2,9)(5,7,5)(5,7,9)(5,9,5)(5,9,9)
(7,2,5)(7,2,9)(7,7,5)(7,7,9)(7,9,5)(7,9,9)
(9,2,5)(9,2,9)(9,7,5)(9,7,9)(9,9,5)(9,9,9)}

(iii) Weak Robust Equivalence class Testing

	C1	C2	C3	C4	C5	C6
a	-1	2	5	7	9	12
b	-1	2	7	9	11	
c	-1	5	9	15		

(-1, 2, 5) - Invalid input
(7, 9, 15) - Invalid input
(12, 9, 9) - Invalid input
(9, 11, 9) - Invalid input
(2, -1, 5) - Invalid input
(2, 2, -1) - Invalid input

Variable having highest no. of classes = 6TC



(iv) Strong Robust Equivalence class Testing

a = 6 b = 5 c = 4

a x b x c = 6 x 5 x 4 = 120TC

(-1, 2, 5, 7, 9, 12) x (-1, 2, 7, 9, 11) x (-1, 5, 9, 15)

(5, 7, -1) - Invalid input
(-1, 7, 9) - Invalid input
(2, -1, 9) - Invalid input
(12, 2, 5) - Invalid input
(5, 11, 9) - Invalid input
(2, 7, 15) - Invalid input

SL. No	TC ID	Author	Version	Technique	TC Description	Input A B C	Expected Output	Actual output	Status	Remarks
1	Tr#1	KV	V1.0	WN	Enter the i/p for a, b & c from c1	(2, 2, 5)	Not a triangle			
2	Tr#2	KV	V1.0	WN	Enter the i/p for a, b & c from c2	(5, 7, 9)	Scalene triangle			
3	Tr#3	KV	V1.0	WN	Enter the i/p for a & b from c3 & c from c2	(7, 9, 9)	Isosceles triangle			
4	Tr#4	KV	V1.0	WN	Enter the i/p for a from c4 & b from c3 & c from c2	(9, 9, 9)	Equilateral triangle			
5	Tr#5	KV	V1.0	SN	Enter the i/p for a & b from c1 & c from c2	(2, 2, 9)	Not a triangle			
6	Tr#6	KV	V1.0	SN	Enter the i/p for a from c2 & b & c from c1	(5, 2, 5)	Isosceles triangle			
7	Tr#7	KV	V1.0	SN	Enter the i/p for a & b from c3 & c from c1	(7, 9, 5)	Scalene triangle			
8	Tr#8	KV	V1.0	SN	Enter the i/p for a from c4 & b from c3 & c from c1	(9, 9, 5)	Isosceles triangle			
9	Tr#9	KV	V1.0	WR	Enter the i/p for a from c1 & b, c from c2	(-1, 2, 5)	Invalid input			

Sl. No.	TC ID	Author	Version	Technique	TC Description	Input A B C	Expected output	Actual Output		
10	Tr#10	KV	V1.0	WR	Enter the i/p for a, b & c from c4	(7,9,15)	Invalid input			
11	Tr#11	KV	V1.0	WR	Enter the i/p for a from c6, b from c4 & c from c3	(12,9,9)	Invalid input			
12	Tr#12	KV	V1.0	WR	Enter the i/p for a from c5 & b&c from c3	(9,11,9)	Invalid input			
13	Tr#13	KV	V1.0	WR	Enter the i/p for a & c from c2 & b from c1	(2,-1,5)	Invalid input			
14	Tr#14	KV	V1.0	WR	Enter the i/p for a & b from c2 & c from c1	(2,2,-1)	Invalid input			
15	Tr#15	KV	V1.0	SR	Enter the i/p for a & b from c3 & c from c1	(5,7,-1)	Invalid input			
16	Tr#16	KV	V1.0	SR	Enter the i/p for a from c1 & b, c from c4	(-1,7,9)	Invalid input			
17	Tr#17	KV	V1.0	SR	Enter the i/p for a from c2 & b,c from c1 & c3 respectively	(2,-1,9)	Invalid input			
18	Tr#18	KV	V1.0	SR	Enter the i/p for a from c6, b from c2 & c from c2	(12,2,5)	Invalid input			
19	Tr#19	KV	V1.0	SR	Enter the i/p for a & c from c3 & b from c5	(5,11,9)	Invalid input			
20	Tr#20	KV	V1.0	SR	Enter the i/p for a & c from c2 & b from c4	(2,7,15)	Invalid input			
21	Tr#21	KV	V1.0	SN	Enter the i/p for a & c from c2 & b from c3	(2,7,5)	Not a triangle			
22	Tr#22	KV	V1.0	SN	Enter the i/p for a from c2 & b&c from c3	(2,7,9)	Not a triangle.			

SL. No	TC ID	Author	Version	Techni-que	TC Description	Input A B C	Expected output	Actual output	Status
23	Tr#23	KV	V1.0	SN	Enter the i/p for a & c from c2 & b from c3	(2,9,5)	Not a triangle		
24	Tr#24	KV	V1.0	SN	Enter the i/p for a from c2, b from c4 c from c3	(2,9,9)	Isosceles triangle		
25	Tr#25	KV	V1.0	SN	Enter the i/p for a & c from c3 & b from c2	(5,2,9)	Not a triangle		
26	Tr#26	KV	V1.0	SN	Enter the i/p for a & b from c3 & c from c2	(5,7,5)	Isosceles triangle		
27	Tr#27	KV	V1.0	SN	Enter the i/p for a from c3, b from c4 c from c2	(5,9,5)	Isosceles triangle		
28	Tr#28	KV	V1.0	SN	Enter the i/p for a & c from c3 & b from c4	(5,9,9)	Isosceles triangle		
29	Tr#29	KV	V1.0	SN	Enter the i/p for a from c4 & b & c from c2	(7,2,5)	Not a triangle		
30	Tr#30	KV	V1.0	SN	Enter the i/p for a from c4, b from c2 & c from c3	(7,2,9)	Not a triangle		
31	Tr#31	KV	V1.0	SN	Enter the i/p for a from c4, b from c3 & c from c2	(7,7,5)	Isosceles triangle		
32	Tr#32	KV	V1.0	SN	Enter the i/p for a from c5, b from c3 & c from c3	(9,7,9)	Isosceles triangle		
33	Tr#33	KV	V1.0	SR	Enter the i/p for a from c1, b from c3, c from c2	(-1,7,5)	Invalid input		
34	Tr#34	KV	V1.0	SR	Enter the i/p for a from c2, b from c1, c from c2	(2,-1,5)	Invalid input		
35	Tr#35	KV	V1.0	SR	Enter the i/p for a from c4, b from c3 & c from c1	(7,7,-1)	Invalid input		

SL. No.	TC ID	Author	Version	Technique	TC Description	Input A, B, C	Expected Output	Actual Output	Status	Remarks
36	Tr#36	KV	V1.0	SR	Enter the I/P for a from C6, b from C4 & C from C2	(12,9,5)	Invalid Input			
37	Tr#37	KV	V1.0	SR	Enter the I/P for a from C2, b from C5, C from C3	(2,11,9)	Invalid Input			
38	Tr#38	KV	V1.0	SR	Enter the I/P for a from C3, b from C3 & C from C4	(5,7,15)	Invalid Input			
39	Tr#39	KV	V1.0	SR	Enter the I/P for a from C1, b from C4, & C from C2	(-1,9,9)	Invalid Input			
40	Tr# 40	KV	V1.0	SR	Enter the I/P for a from C4, b from C1, C from C2	(7,-1,5)	Invalid Input			