

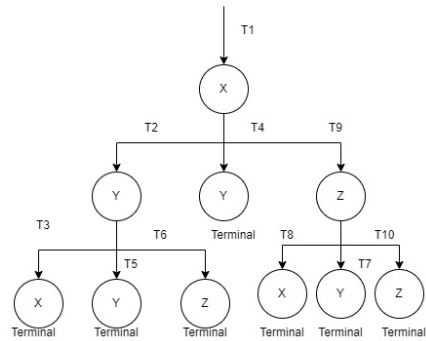
1. A) T1, T4, T6

	Steps in Test Path		
	T1	T4	T6
Source State	\emptyset	X	Y
Input	a	a	b
Output	0	0	1
Destination State	X	Y	Z

b) T1, T2, T5, T3, T4, T6, T7, T6, T8, T9, T10

	Steps in Test Path										
	T1	T2	T5	T3	T4	T6	T7	T6	T8	T9	T10
Source State	\emptyset	X	Y	Y	X	Y	Z	Y	Z	X	Z
Input	a	b	c	a	a	b	c	b	b	c	a
Output	0	1	1	1	0	1	0	1	0	0	1
Destination State	X	Y	Y	X	Y	Z	Y	Z	X	Z	Z

c)



	Steps in Test Path		
	T1	T2	T3
Source State	\emptyset	X	Y
Input	a	b	a
Output	0	1	1
Destination State	X	Y	X

	Steps in Test Path		
	T1	T2	T5
Source State	\emptyset	X	Y
Input	a	b	c
Output	0	1	1
Destination State	X	Y	Y

	Steps in Test Path		
	T1	T2	T6
Source State	\emptyset	X	Y
Input	a	b	b
Output	0	1	1

Destination State	X	Y	Z
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	Steps in Test Path	
	T1	T4
Source State	\emptyset	X
Input	a	a
Output	0	0
Destination State	X	Y

	Steps in Test Path		
	T1	T9	T8
Source State	\emptyset	X	Y
Input	a	c	a
Output	0	0	1
Destination State	X	Z	X

	Steps in Test Path		
	T1	T9	T7
Source State	\emptyset	X	Z
Input	a	c	c
Output	0	0	0
Destination State	X	Z	Y

	Steps in Test Path		
	T1	T9	T10
Source State	\emptyset	X	Z
Input	a	c	a
Output	0	0	1
Destination State	X	Z	Z

2. A) TS_s does not reveal the fault as it does not go to that transaction, the sequence of output is the same.
b) TS_T has a different sequence of outputs as T10 was out with T7 but T10 is called at a later time than T7, not side by side, so it does reveal the fault.
c) TS_{TT} also reveals that fault as T7 and T10 had different paths.

3. A) TS_s does not reveal the fault as the sequence output is the same.
b) TS_T has the same sequence of outputs so does not reveal the fault.
c) TS_{TT} has the same sequence of outputs so does not reveal the fault.

4.

	a	b	ba	ab
X	0	1	11	01
Y	1	1	11	11
Z	1	0	00	10

Ab has all unique outputs so it is a characterization sequence.

5. A) The answer does change as the ab output gives 11 rather than 10 which is what you should get from the extension.
6. A) The answer does not change as the sequence output still would be 10 in both with the addition of ab.