a) Statement Coverage for T?

DS = {~~1, 2, 4~~, ~~6, 7~~, ~~9, 10~~, 11, ~~12~~, ~~16, 17~~, 18, ~~20, 21, 23~~, 26, ~~27~~}

DS = |17| 🡪 2 infeasible conditions

**Statement Coverage = 14/(17-2) = 14/15**

b) Block Coverage for T?

Blocks:

1 1, 2, 4

2 6, 7

3 9, 10

4 11 🡪 unreachable

5 12

6 16, 17

7 18 🡪 unreachable

8 20

9 21

10 23

11 26 🡪 not covered

12 27

DB = |12| 🡪 2 infeasible conditions

**Block Coverage = 9/(12-2) = 9/10**

c) Decision Coverage for T?

DD = {4, 7, 10, 17}

DD = |4| 🡪 2 infeasible conditions

**Decision Coverage = 1/(4-2) = 1/2**

d) Condition Coverage for T?

DC = { 4) X ≥ 0

4) X ≤ 100

4) Y > 0

4) Y < 4

7) X < 60

10) X > 80

10) Y == 1

17) Y == 0 }

DC = |8| 🡪 2 infeasible conditions

**Condition Coverage = 2/(8-2) = 2/6**

e) Condition/Decision Coverage for T?

(|CC| + |DC|) / [(|Ce| – |Ci|) + (|De| – |Di|)]

**Condition/Decision Coverage = (2+1)/[(8-2)+(4-2)] = 3/8**