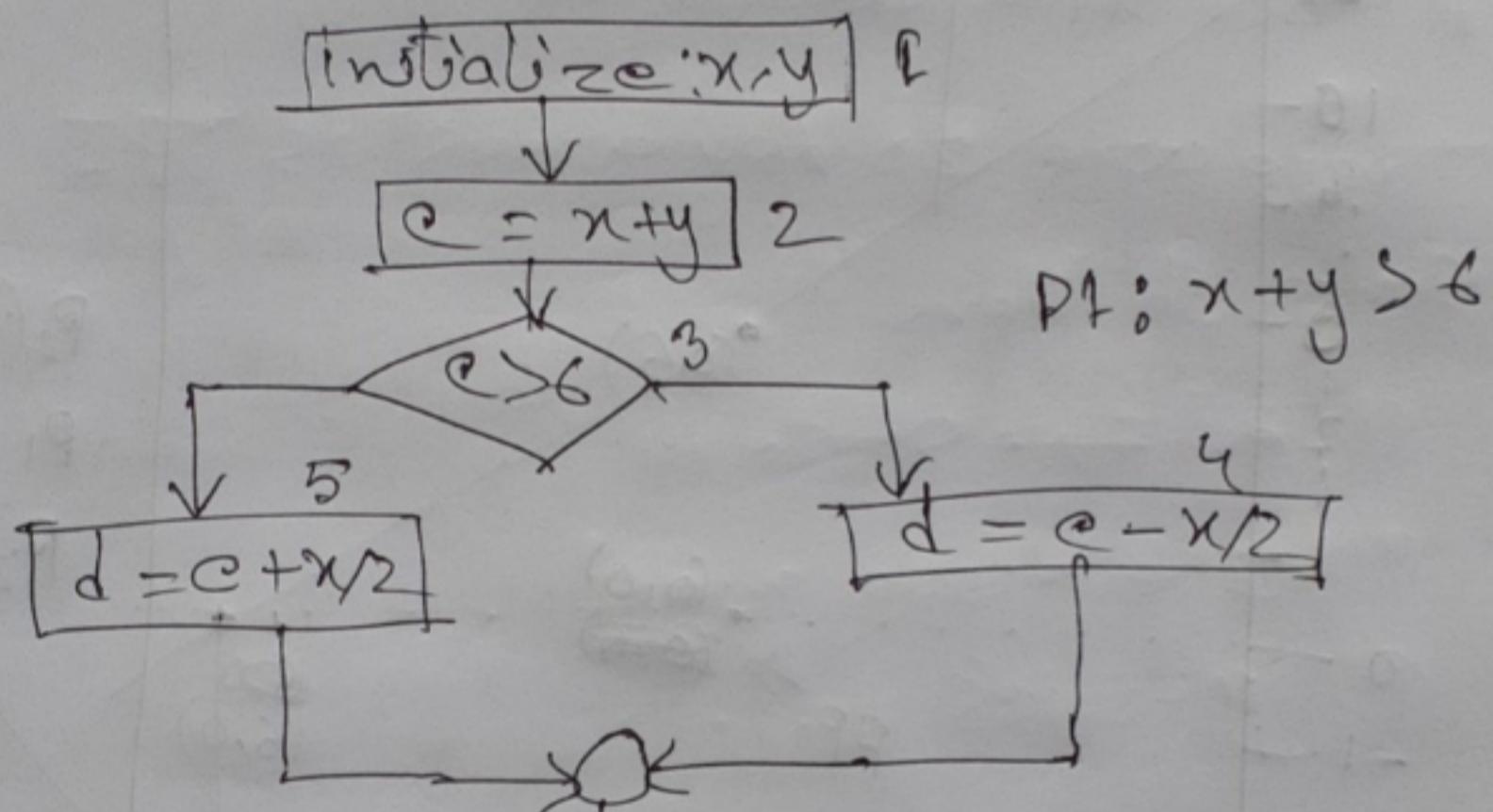


MD.Rasel Hossain, 19,8,2020 Final Exam
 ID-163432521, SQA-403

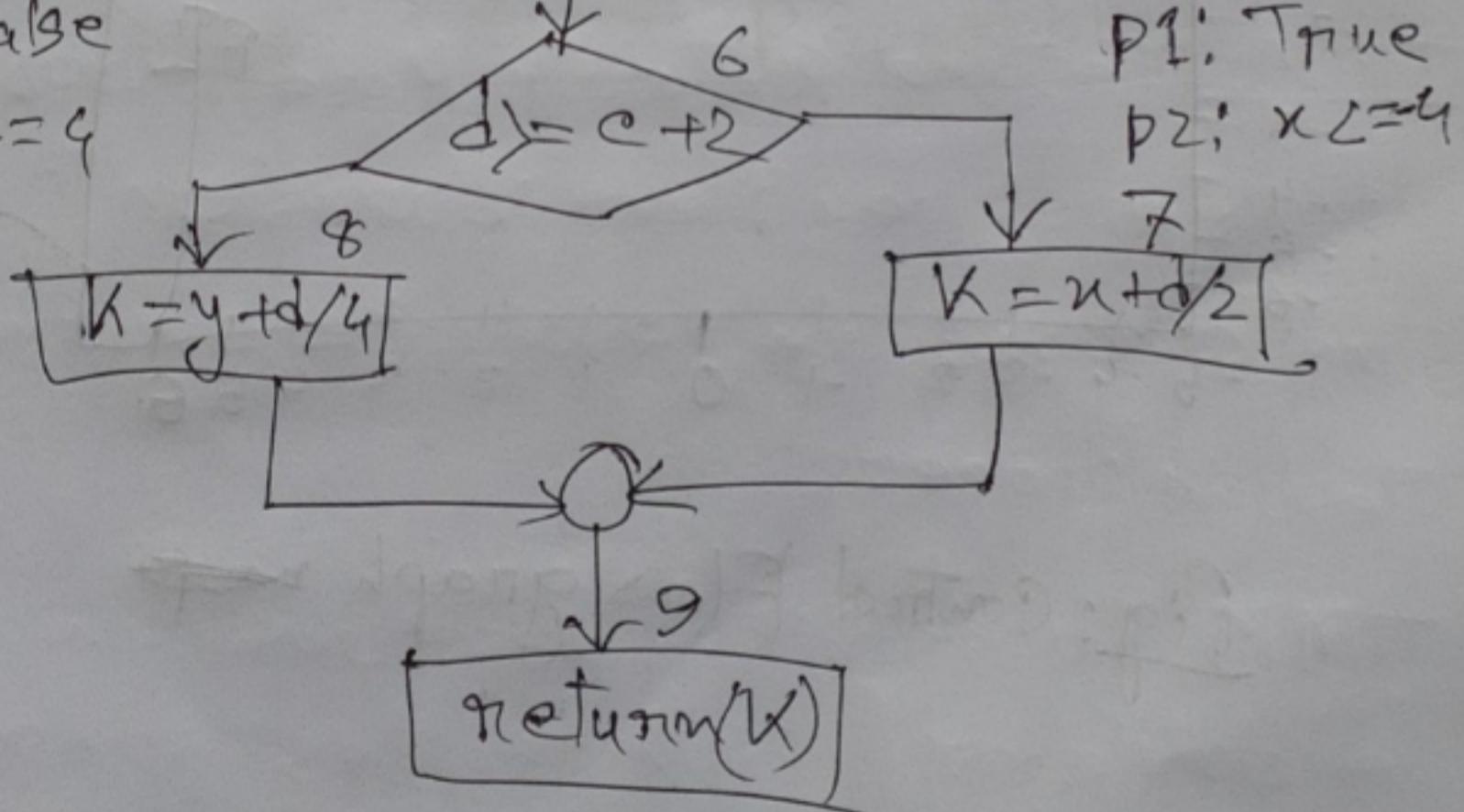
Answer to the Question no- 2

Domain Error



P1: False

P2: $x+y = 9$



Naprym
naproxen



Fig: Domain control Flow diagram.

Solivo
naproxen + esomeprazole

(2)

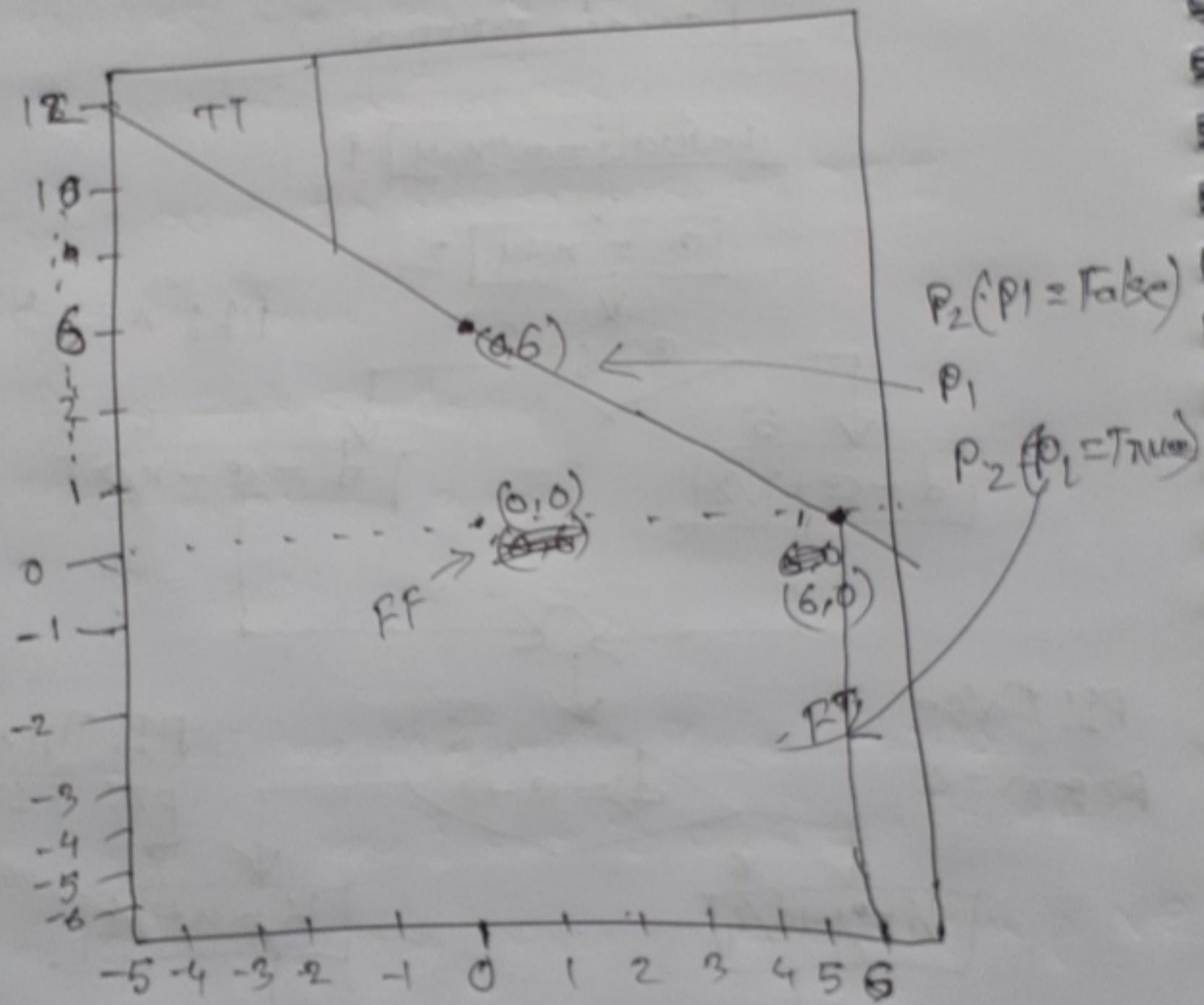


Fig: Control Flow graph

Answer to the Question - (5)

3

CMM - Capability Maturity Model.

The CMM model, maturity level of an organization, that's extent can produce low cost, high quality software.

We know the current maturity level, an organization can work to reach the next higher level.

Five levels of CMM.

- ① Level 1 ~~Repeatable~~
- ② Level 2 ~~Refined~~ Repeatable
- ③ Level 3 Defined
- ④ Level 4 Managed
- ⑤ Level 5: Optimizing

(4)

TPI = Test process Improvement. A test process is a certain way of performing activities related to defect detection.

A few such activities

there are 20 key areas in TPI

Some of them

① Test ~~strat~~ strategy.

② Lifecycle model

③ Metrics

TMM: Testing Maturity Model, was pioneered by Ilenie Burstein to help the organization, evaluate and improve testing process.

TMM framework describe an evolutionary path of test process maturity in five levels or stages

Five Levels are:

- ① Level 1: initial
- ② Level 2: phase definition
- ③ Level 3: integration
- ④ Level 4: Management and measurement
- ⑤ Level 5: optimization.

Answer to the question no - (4)

on point: It is a point on the boundary or very close to the boundary,

off point: An off point of a boundary lies away from the boundary.

~~on point boundary consider. 7/68 n>6~~ (6)

open: An off point of the boundary is an ~~interior~~ ~~in~~ interior point inside the domain within an ϵ -distance from the boundary (ϵ =small)

closed: An off point of that boundary is an exterior point outside the boundary with an ϵ -distance

ON & OFF points

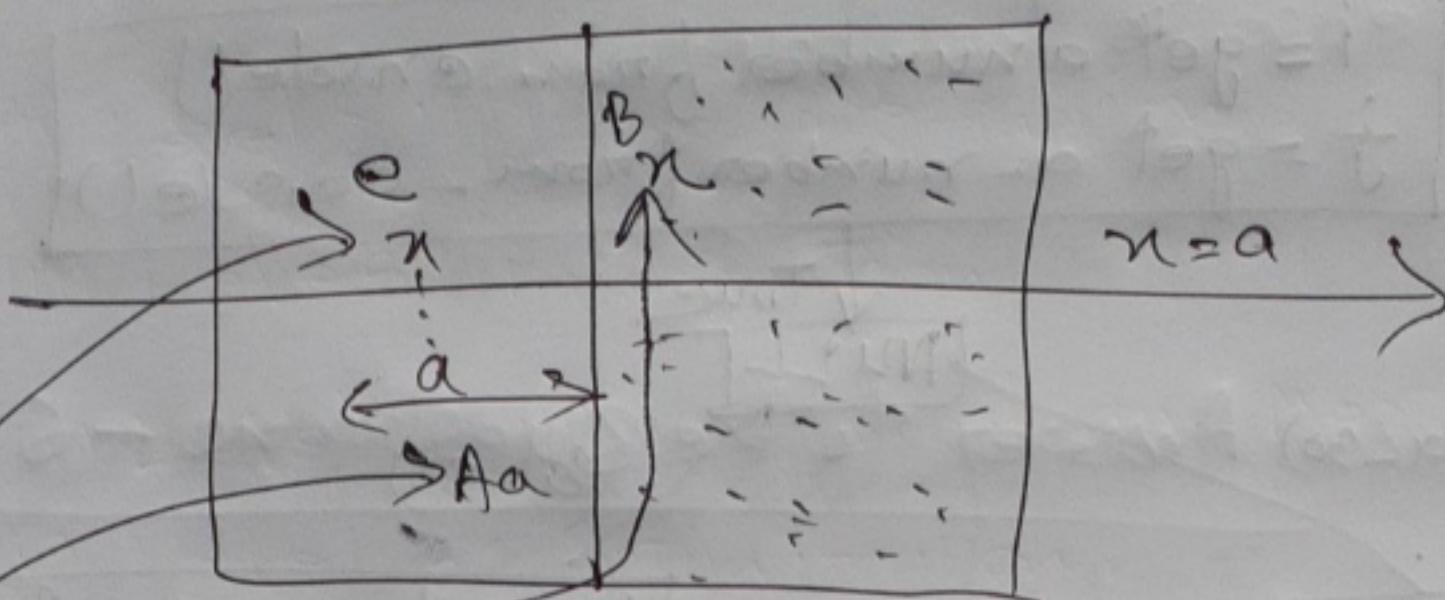
Consider the domain are $(x \in \mathbb{R}^n, n \leq 6)$

open with respect to D1

closed with respect to D2

(7)

domain $D_1(n < 6)$ domain $D_2(n \geq 6)$



An ~~on~~ point for $D_2 \& D_2$ (very close to the boundary)

An ~~on~~ point for $D_1 \& D_2$ (lying exactly on the boundary)

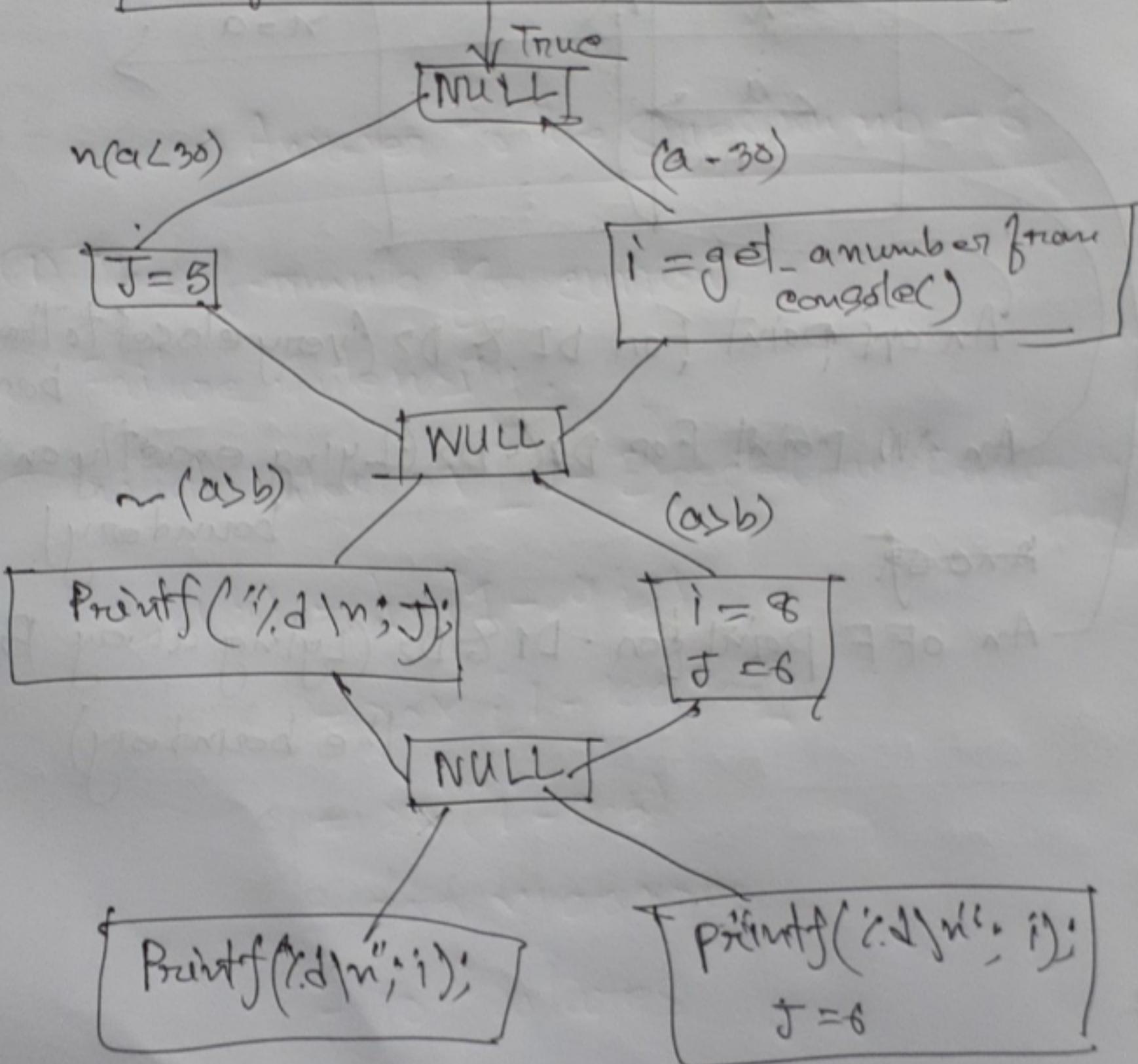
~~An off~~

An off point for $D_1 \& D_2$ (lying away from the boundary)

Answers to the Question no - (1) (8)

Data Flow Diagram

$i = \text{get a number from console()}$
 $j = \text{get a number from - console()}$



(9)

Answer to the Question no-(7)

Given that,

$$x+0, 3xy \leq 6 \quad | \quad x+y > 7$$

there, we ~~also~~ consider $x=0$

$$\begin{aligned} & \cancel{x+0} + 0 \cdot 3 \cancel{xy} \leq 6 \\ \Rightarrow & 0 \cdot 3 \cancel{xy} \leq 6 \quad \left. \begin{array}{l} \\ y > x \end{array} \right\} \\ \therefore & y \leq 20 \end{aligned}$$

Now, $x = -5$

$$\begin{aligned} & -5 + 0 \cdot 3 \cancel{xy} \leq 6 \quad | \quad 5+y > y = 2 \\ \Rightarrow & 0 \cdot 3 \cancel{y} \leq 1 \\ \therefore & y \leq 3.333 \end{aligned}$$

again we $x = -1$

$$\begin{aligned} & -1 + 0 \cdot 3 \cancel{xy} \leq 6 \quad | \quad -1+y > y = 6 \\ \Rightarrow & 0 \cdot 3 \cancel{y} \leq 5 \\ \therefore & y = 16.666 \end{aligned}$$

(10)

this 16.666 is now & off 16.67; does not
suffe from produce. it is on point boundary
very close to the boundary.

Answer to the Question no - 6

① The formula for current
Failure Intensity.

initial intensity λ_0 [1 - Expected fail / Failure in
bind]

$$\mu(t) = \lambda_0 (1 - u/v_0)$$

$$= 20 \times [1 - 100/200]$$

$$= 20 (1 - 0.5)$$

$$= 200 \times 100 \times 200$$

$$= 10 \text{ failures}$$

Answer to the Question no-3 (11)

given that

λ_d and λ_n are the comment (initial) intensity

$$\lambda_e = \lambda(T_e) \lambda_0 e^{b(T_e - T_0)}$$

$$\lambda_n = \lambda(T_n) = (e \cdot \lambda_0 e^{b(T_n - T_0)})$$

$$T_0 = 20$$

$$\lambda_e = 2$$

$$\lambda_e = 0.03$$

$$\lambda_n = e(T_n - T_e) \frac{\lambda_0}{T_0}$$

$$T_n - T_e = \frac{V_0}{\lambda_0} \ln \left(\frac{\lambda_e}{\lambda_n} \right)$$

$$= \frac{80}{20} \ln \frac{20}{0.03}$$

$$= 4 \times 6.582$$

$$= 26,009 \text{ hours}$$