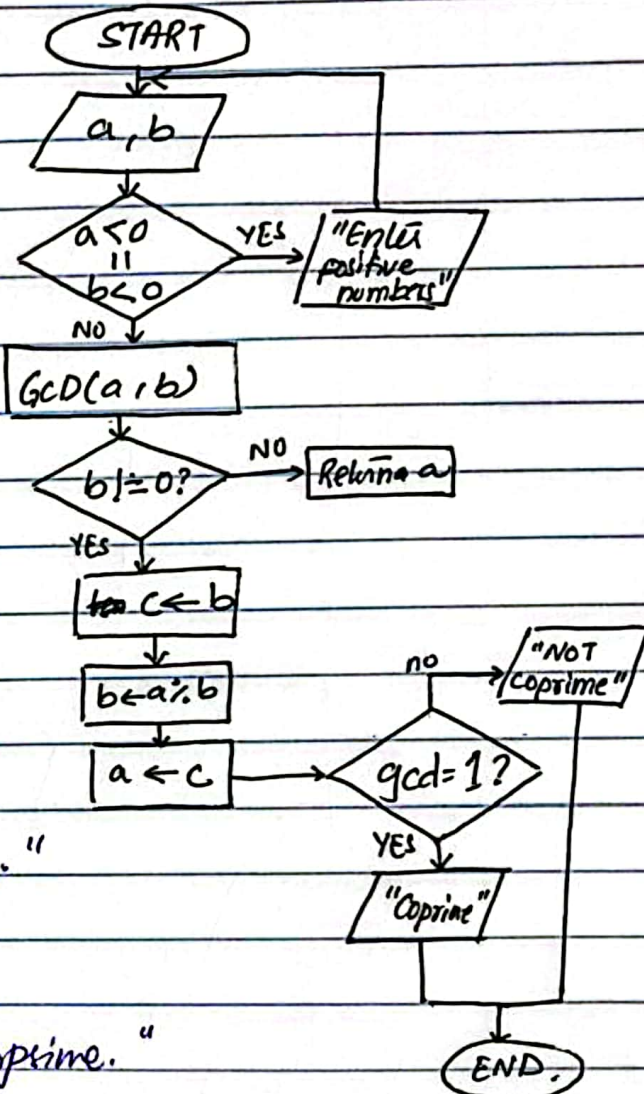


Date: 14/09/2024.

Question 11:

1. START
2. SET a, b, c as integers
3. While $b \neq 0$
4. $c \leftarrow b$
5. $b \leftarrow a \% b$
6. $a \leftarrow c$
7. Return a
8. If $a \leq 0$ OR $b \leq 0$
PRINT "Both ^{should be} positive integers."
9. Return False
10. $\text{gcd} \leftarrow \text{GCD}(a, b)$
11. If $\text{gcd} = 1$:
PRINT "The numbers are coprime."
12. Return True
13. ELSE
14. PRINT "The numbers are not coprime."
15. RETURN False
16. END IF
17. END.



| INPUT | PROCESS | OUTPUT |
|-------|---------------------------------------|-------------------|
| a | $a < 0 \parallel b < 0$ | "Only two values" |
| b | $\text{GCD}(a, b)$ | |
| | $b \neq 0?$ | |
| | YES if YES then | |
| | $c \leftarrow b, b \leftarrow a \% b$ | |
| | $a \leftarrow c$ | |
| | if NO then | |
| | return a | |
| | if $\text{gcd} = 1$ | "COPRIME" |
| | PRINT "Coprime" | "NOT COPRIME" |
| | ELSE PRINT "Not Coprime" | |