

Problem # 11

PSEUDOCODE

Start

Declare num1, num2 as integer.

Output "Enter two numbers"

Input num1, num2.

if $(num1 \leq 0 \parallel num2 \leq 0)$ then
Output "Invalid input"

else

int a = num1

int b = num2

while $(b \neq 0)$

int new = b

b = $a \% b$

a = new

if $(a == 1)$

then

Output "numbers are coprime"

else

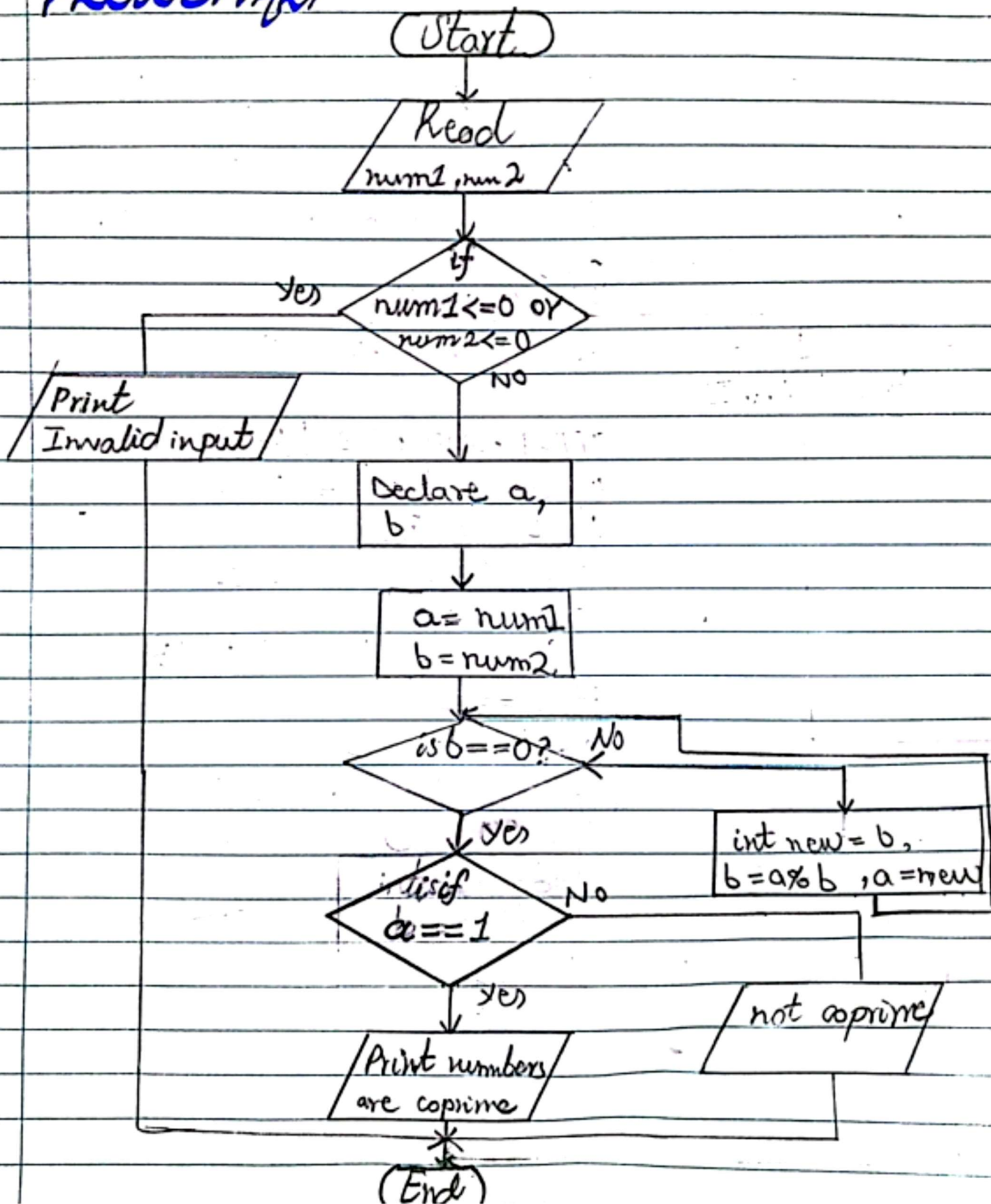
then

Output "not coprime".

end if

// $GCD(a, b) = (b, a \% b)$

FLOWCHART



Input	Process	Output
num1 and num2 as integer	check if the num1 and num2 equal to or less than zero then	coprime and
a, b and new also as integer	Show invalid input no's if both the no's greater than zero then apply loop $\{ \text{while}(b \neq 0) \}$ * replace b with new Store b in new and store new in a and make GCD(a, b) to GCD(b, a % b) if $a == 1$ then no's are co-prime if not they are not.	not coprime