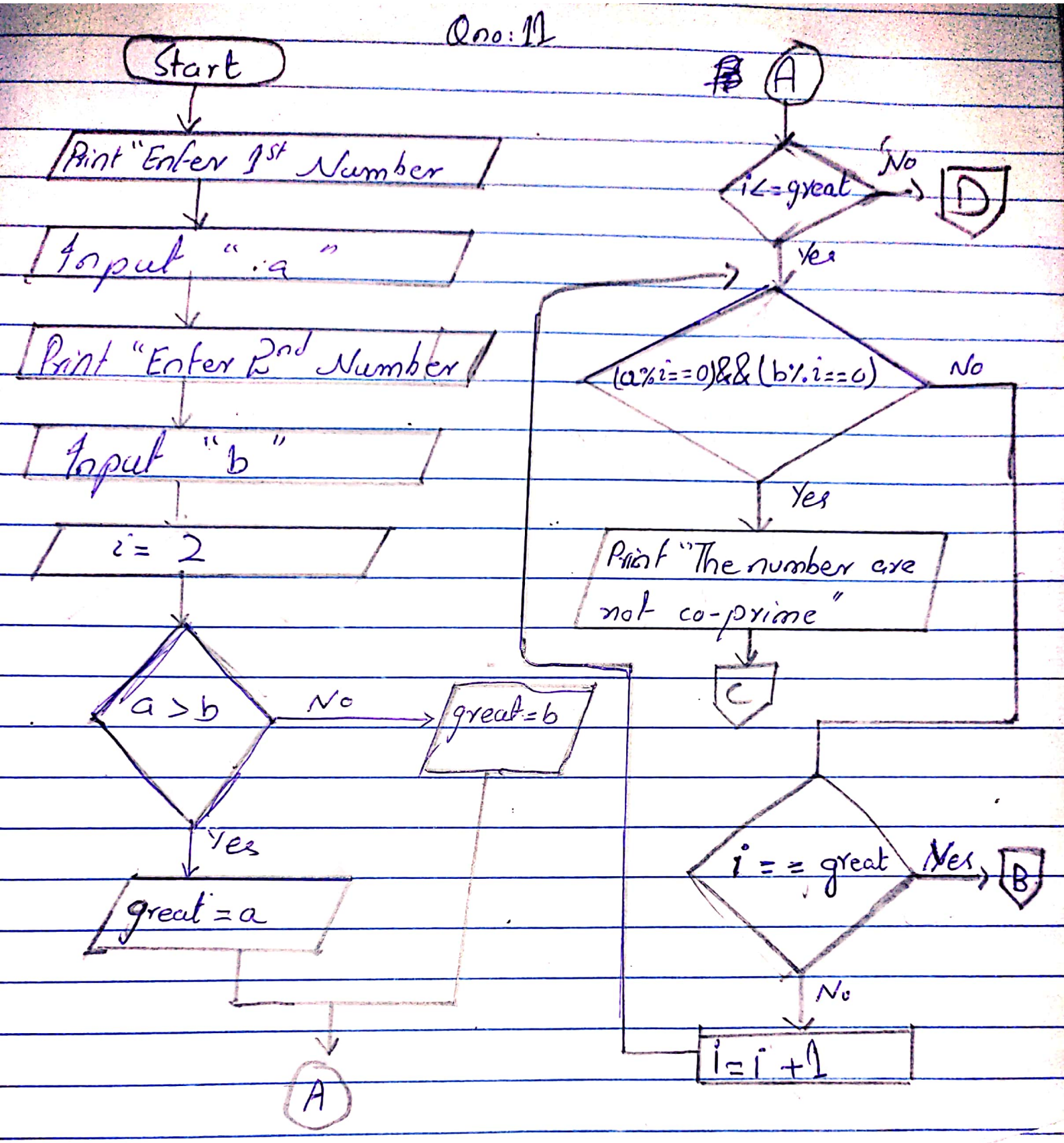
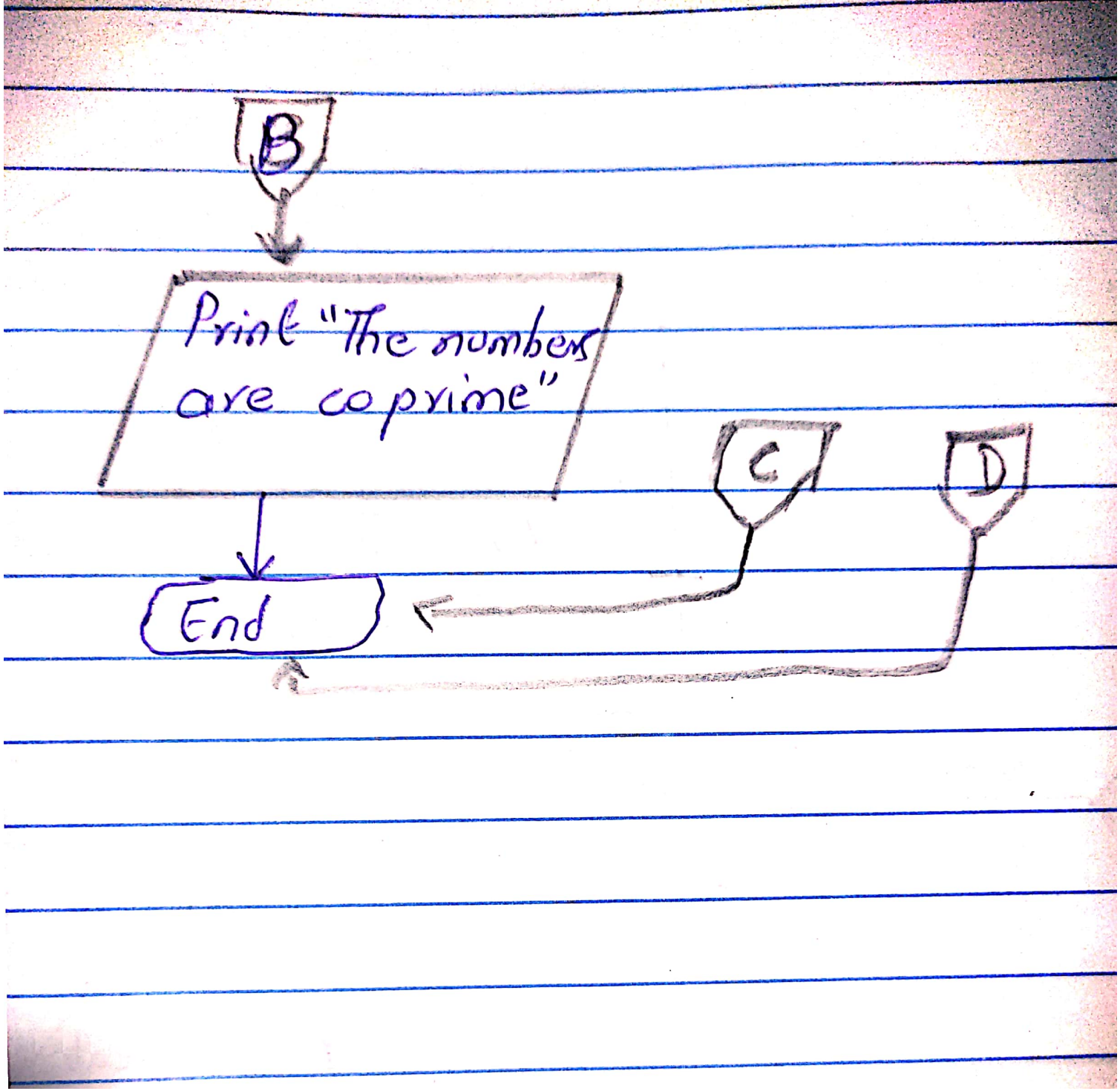
Qno: 11





Q no: 1!

Date:

Pseudocode

```
Start
  int a, b, i, great.
Print " Enter 1st Number"
Input " a "

Print " Enter 2nd Number "
Input "b"
      i = 2
if (a > b)
   great = a
Else
   great = b
while (i=2, i <= great, i++) {
   If (a % i == 0 && b % i == 0)
    Print "If is not
          ("They Numbers are not co-prime")
   Else:
       if (i == great)
       Print ("Numbers are co-prime)
   Else
   (END) End.
```

We can only extract specific amount of litres of water, and these specific number are all the multiples of GCD of M and N. To know what amount of water can be extracted, kindly follow code below:-

Date _____

Problem 13:- The general N-M size die hard jug problems.

```
Start
print "Enter both the numbers"
Input a, b
If (a>b), then
        greater = a
Else,
        greater = b
Repeat {
        If((a%.i==0) and (b%.i==0)), then //i initialized to 2
                GCD = i
        Else,
                If (i== greater),
                        GCD = 1
        } until (i<= greater)

Repeat {
        If (GCD%.i==0), then // i initialized to 1
                print i," "
        } until (i<= greater)
End
```

Input	Processing	Output
Enter 2 number "a" and "b" input i	Set i=2 Check the greater number. Use while loop with condition if (i <= greater number) if (a%i==0 && b%i==0) Display (Numbers are not Co-prime) else, if (i==greater number) Print "(Numbers are Co-prime) Else, End	Display "Numbers are not co-prime" if a%i==0 && b%==0 Display (Numbers are coprime) if (i==greater).