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Assignment - 2

a) Print even numbers between 0 & 99.

Algorithm :-

Step 1: Start

Step 2: I ← 0

Step 3: print the value of I

Step 4: I ← I + 2

Step 5: if I < 99, go to step 3

Step 6: Stop

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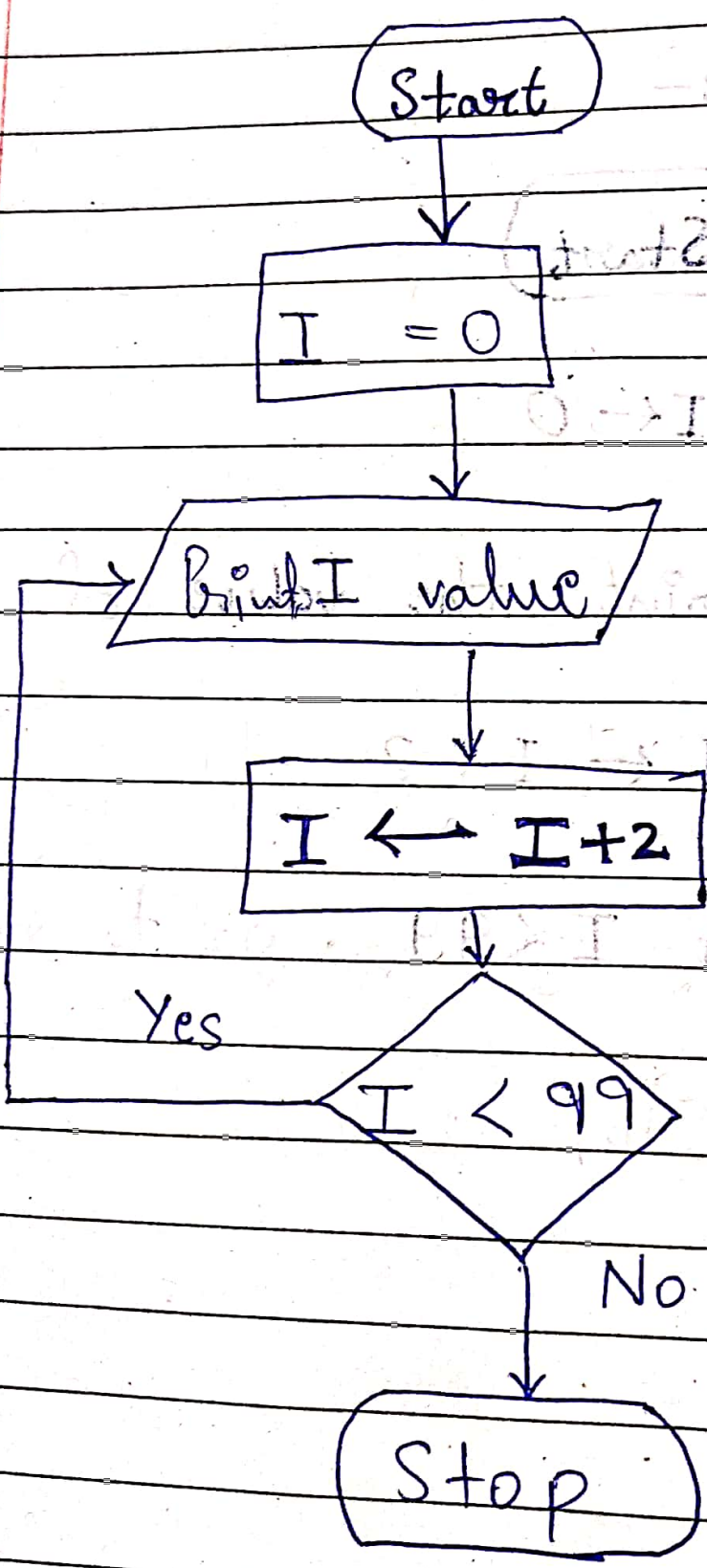
Flowchart :-



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b) Print odd numbers less than a given number. It should also calculate their sum & count.

Algorithm:

Step 1: Start.

Step 2: Let the given number "a".

Step 3: another number let be "x = 1" and sum = "0"

Step 4: [redacted] Print the value of "x", Sum = Sum + x.

Step 5: x ← x+2 , [redacted]

Step 6: If x < a, go to step 4.

Step 7: Stop

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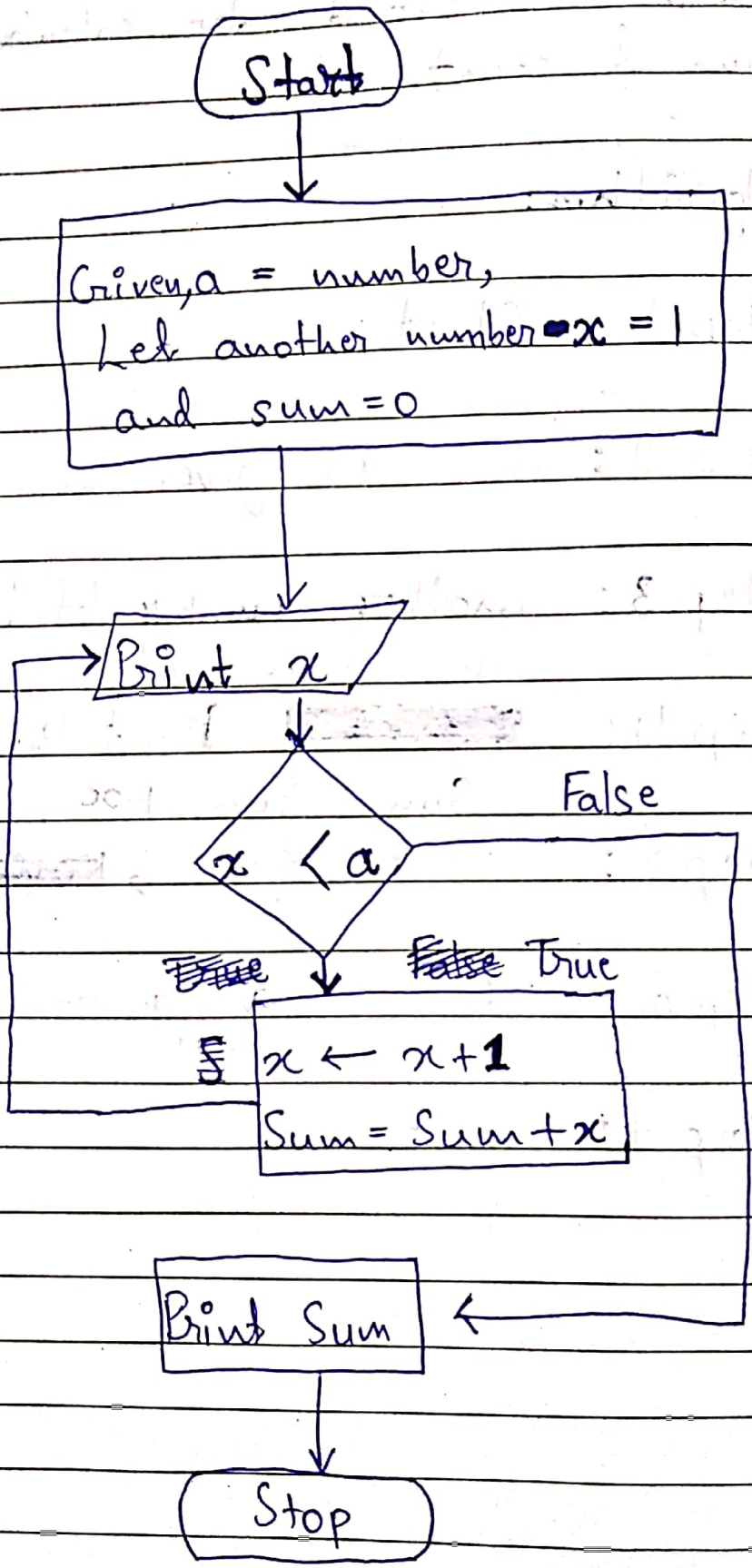
Flow Chart:



c) Calculate the average of 25 test scores

Algorithm :—

Step 1 : Start

Step 2 : I = 1 and N = 25

Step 3 : Sum = 0

Step 4 : Input the Ith test score,

Step 5 : Sum ← Sum + Ith test score

Step 6 : I ← I++

Step 7 : if I ⩽ N, go to step no. 4.

Step 8 : Sum / N = Average

Step 9 : Print average

Step 10 : Stop

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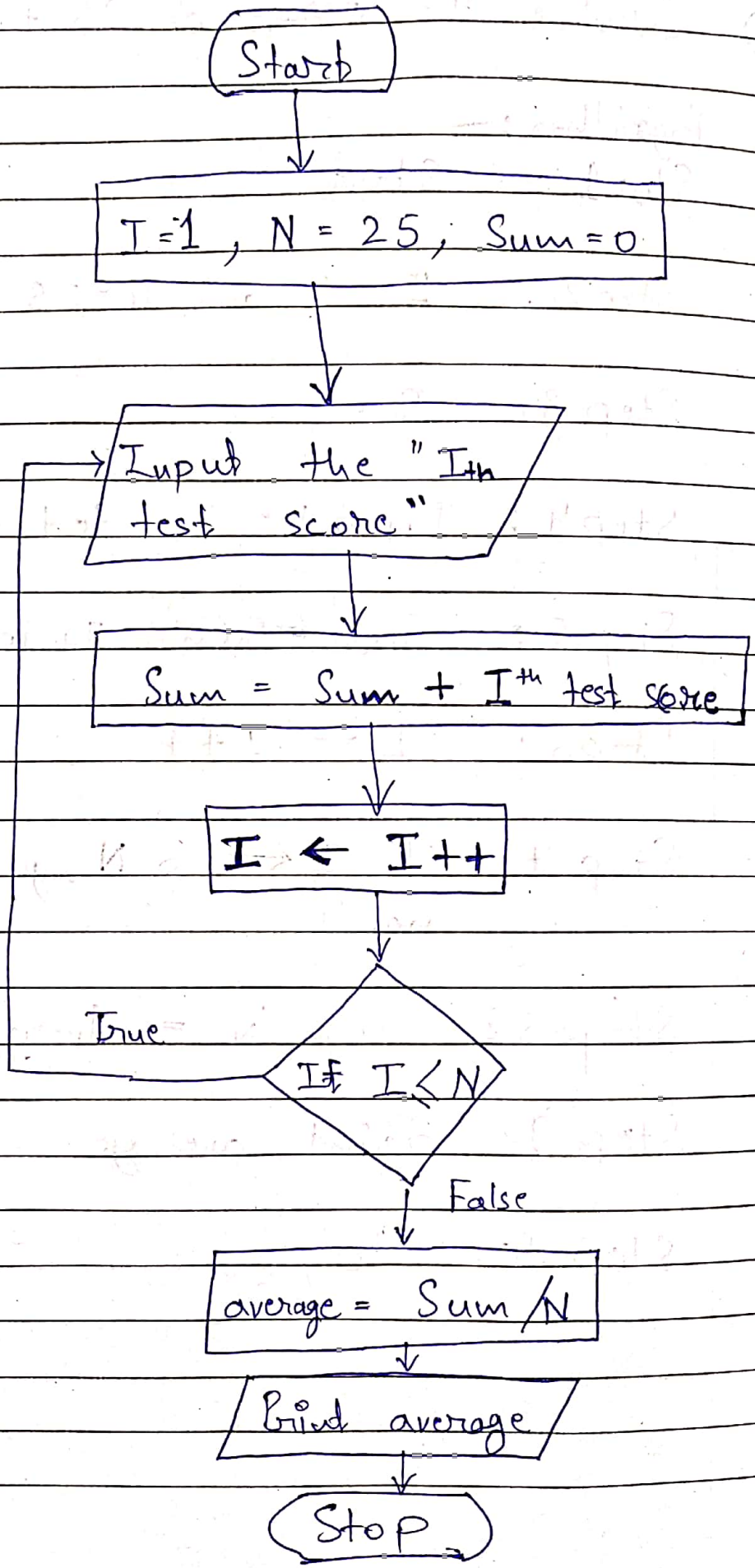
Flow Chart :



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d) Print the table of any number N,

Step 1 : Start.

Step 2 : Read the N number from User.

Step 3 : i = 1

Step 4 : for i ≤ 10, 7*i

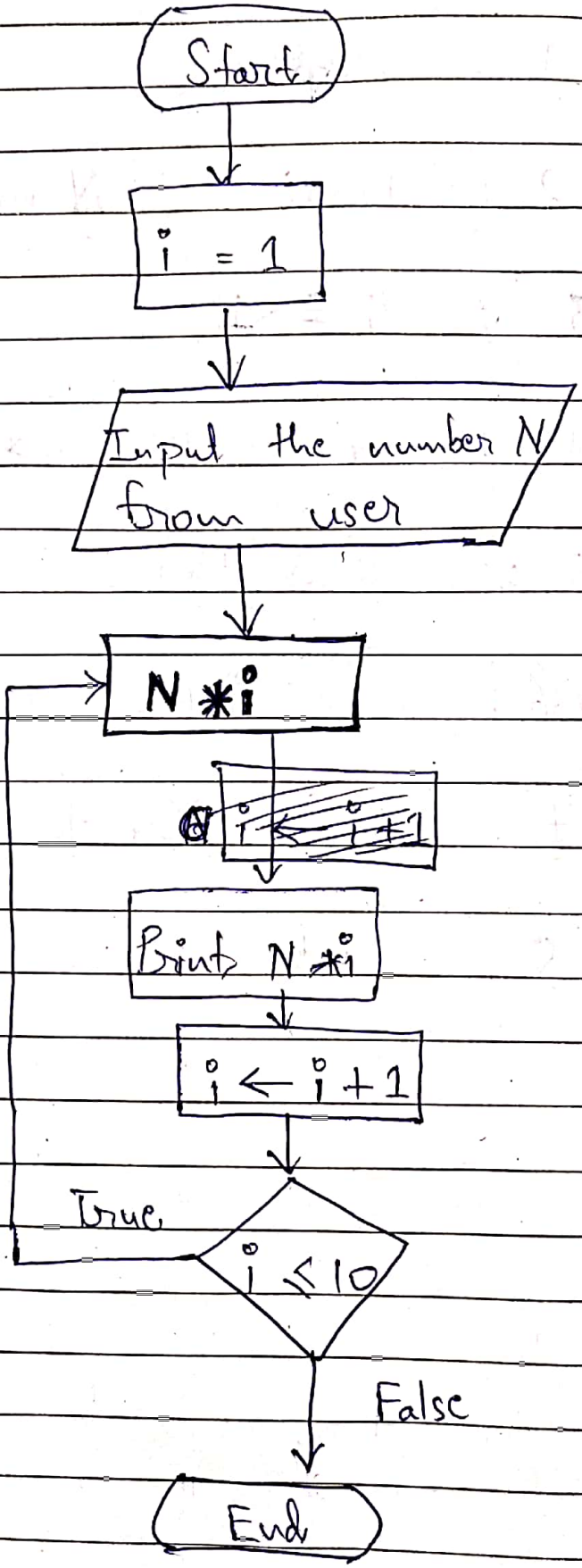
Step 5 : Print 7*i

Step 6 : i ← i+1

Step 7 : Go to step 4.

Step 8 : end.

Flow Chart :



c) Check whether a given number is prime or not:-

Algorithm:

Step 1: Start.

Step 2: Read a number N from user.

Step 3: Let i=1 ; count = 0.

Step 4: if i % N == 0, then count=count++.

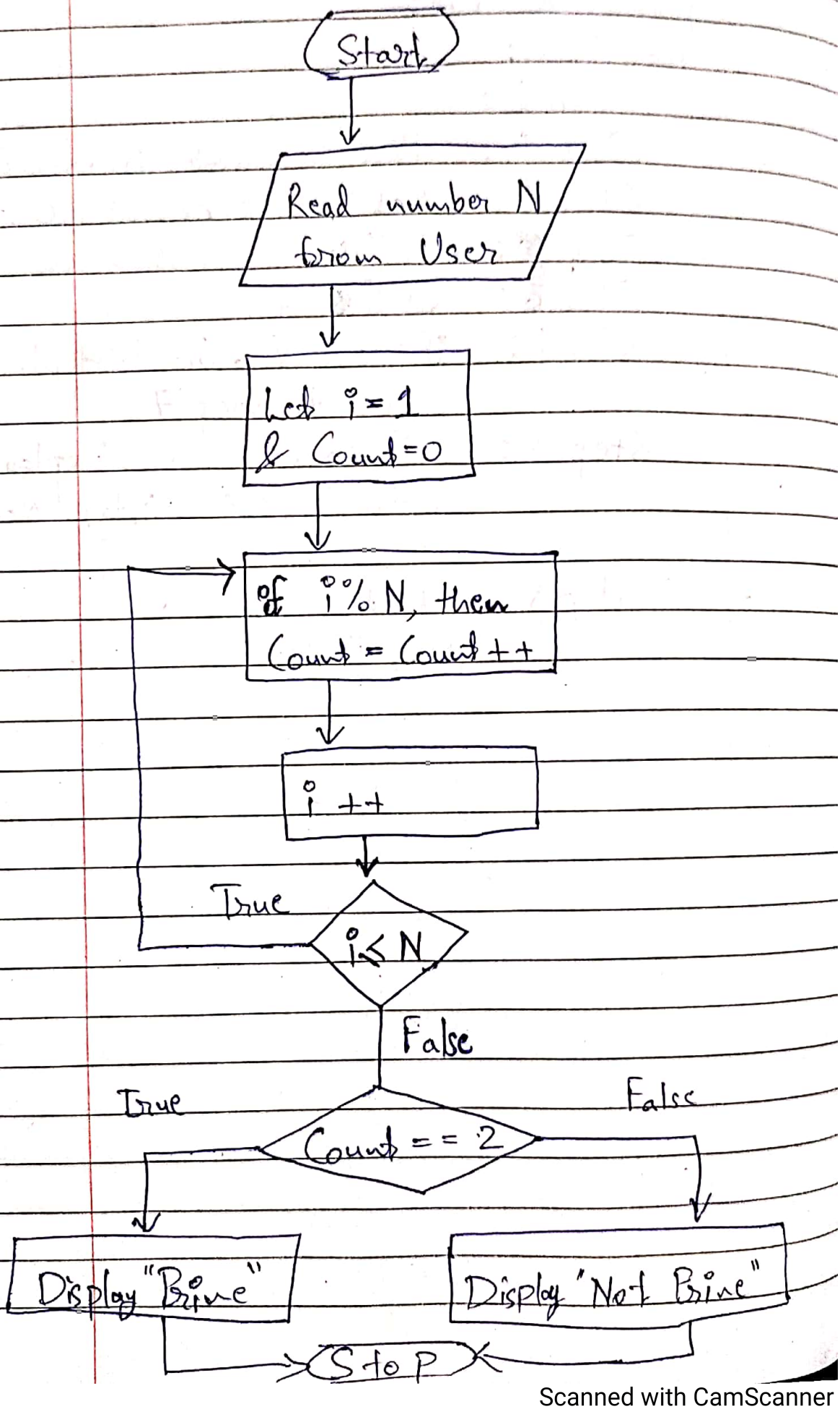
Step 5: i++

Step 6: if i ≤ N, Go to Step 4, else move to step 7.

Step 7: if count == 0, Display prime, else display "Not Prime".

Step 8: End.

Flow Chart :



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(f) Print odd numbers backward from 99 to 1.

Algorithm:-

Step 1: Start.

Step 2: Let i = 99

Step 3: Print i.

Step 4: i = i - 2

Step 5: if i >= 1, Go to Step 3.

Step 6: End.

Flow Chart: