A) Print even numbers between 0 and 99

FLOW CHART

Start

Read limit of numbers, n

Assign i=1
sum=0

Whether i=n
reached?   Yes

No

If i%2==0   False

True

Compute sum=sum+i

Compute i=i+1

Print sum of even numbers, sum

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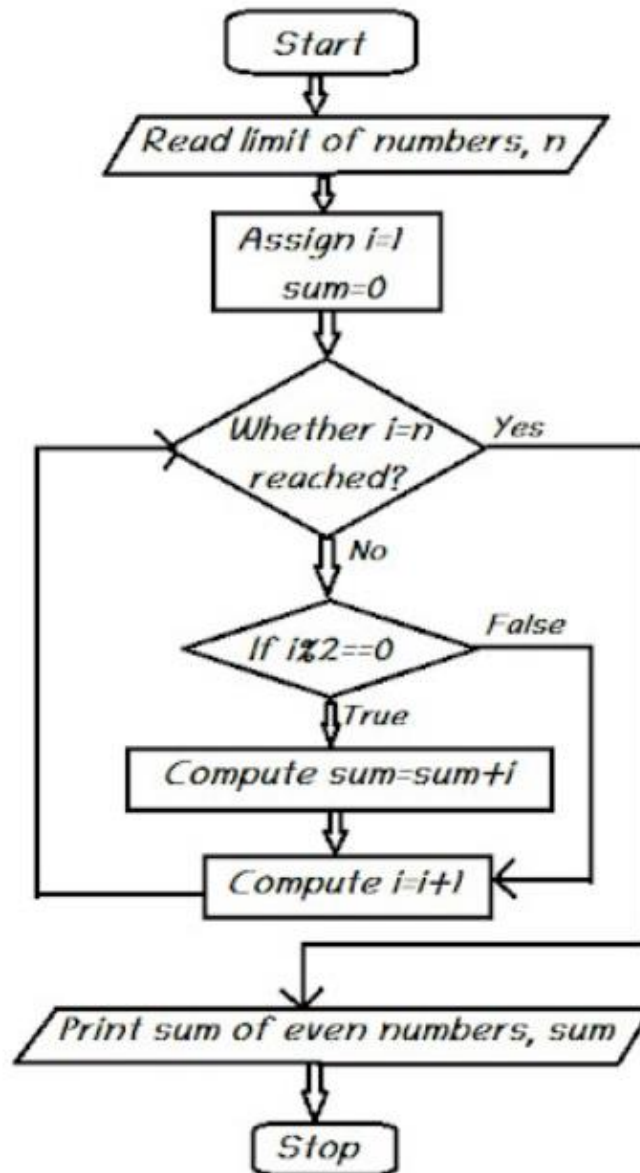
b) Print odd numbers less than a given number. It should also calculate their sum and count

FLOW CHART
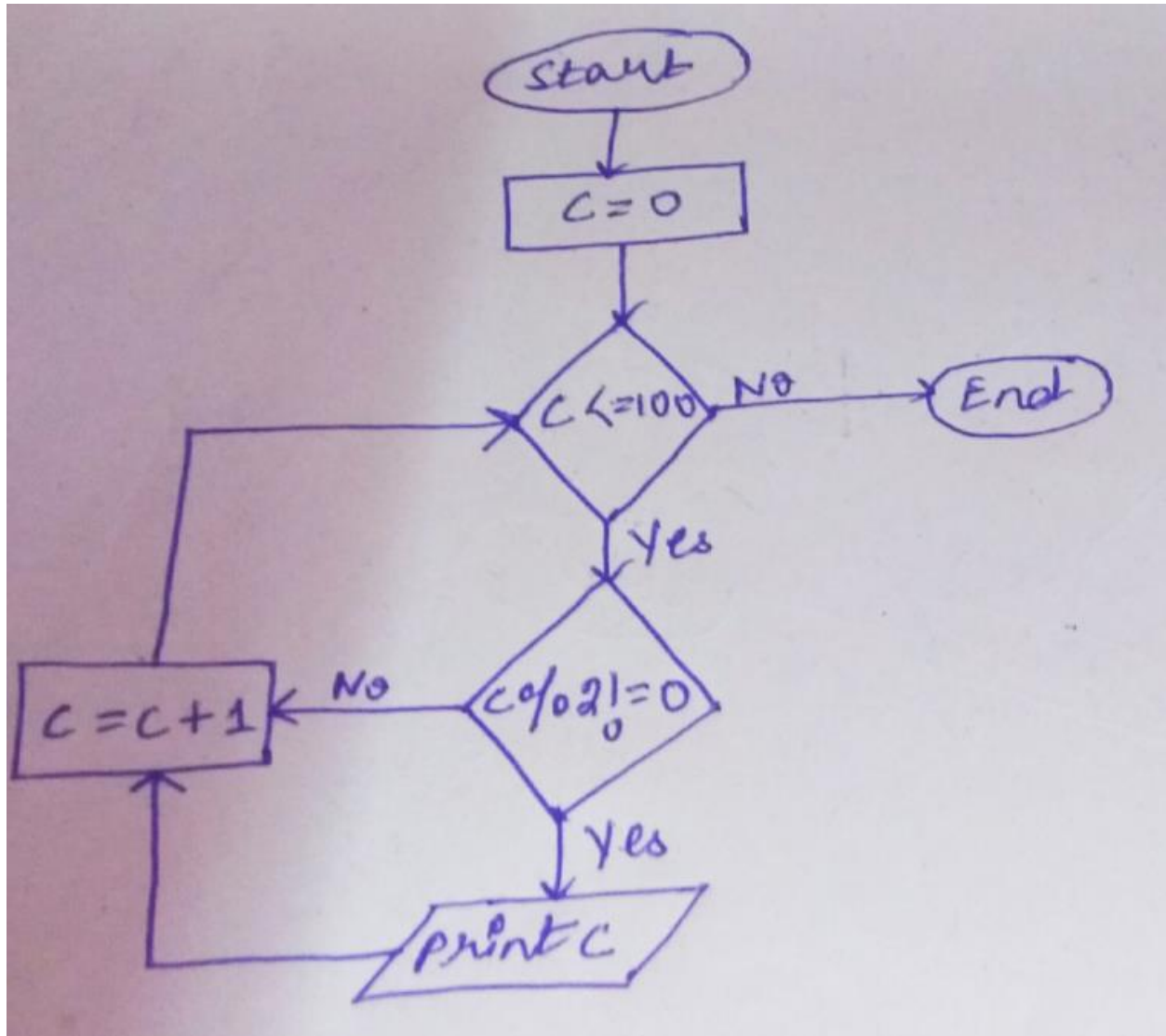
c) Calculate the average of 25 test scores.

```
                    ( Start )
                        |
                        v
                  +-----------+
                  | input `n' |
                  | numbers   |
                  +-----------+
                        |
                        v
                   +--------+
                   | Sum=0  |
                   | i = 0  |
                   +--------+
                        |
                        v
                      / i<n \  ---False-->  | avg = Sum/n |  --> / Print avg, Sum /
                      \     /                                            |
                        |                                                v
                      True                                          ( Stop )
                        |
                        v
              | Sum=Sum + number |
                        |
                        v
                   | i = i+1 |
```
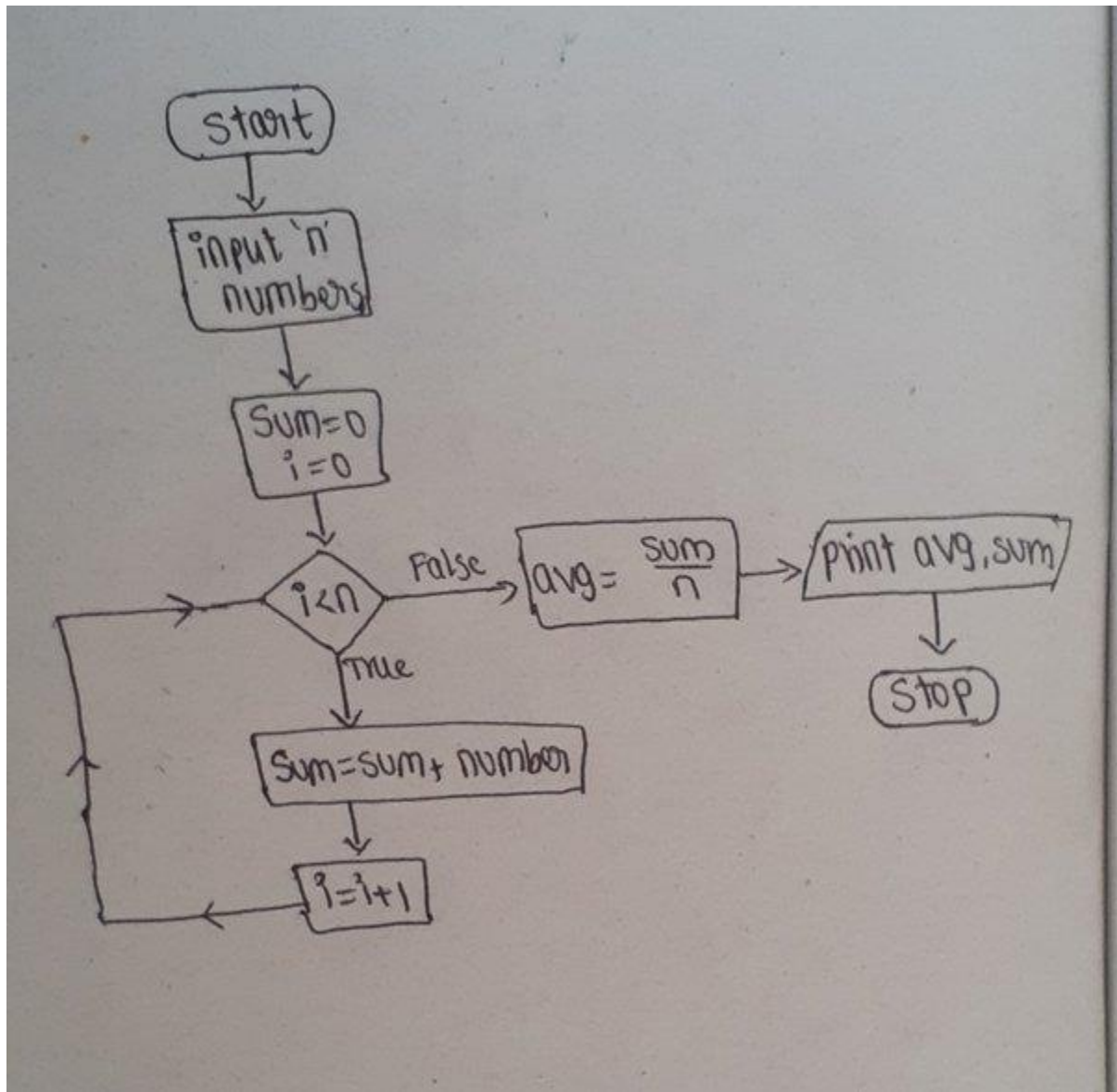
d) Print table of any number N

```
                    ┌─────────┐
                    │  Start  │
                    └────┬────┘
                         │
          ╱──────────────▼──────────────╲
         ╱   PUT "Table of 5"¶           ╱──▷
        ╱──────────────┬──────────────╱
                       │
              ┌────────▼────────┐
              │  number ← 1     │
              └────────┬────────┘
                       │
                  ┌────▼────┐
                  │  Loop   │◀────────────┐
                  └────┬────┘             │
                       │                  │
        Yes   ┌────────▼────────┐         │
        ◀─────│   number > 10   │         │
              └────────┬────────┘         │
                       │ No               │
                       │                  │
       ╱───────────────▼──────────────╲   │
      ╱  PUT " 5 X " + number + "       ╱──▷
     ╱      = " + (number*5) ¶         ╱   │
    ╱───────────────┬──────────────╱       │
                    │                      │
           ┌────────▼────────────┐         │
           │ number ← number + 1 │         │
           └────────┬────────────┘         │
                    │                      │
                    └──────────────────────┘
                    │
              ┌─────▼─────┐
              │    End    │
              └───────────┘
```
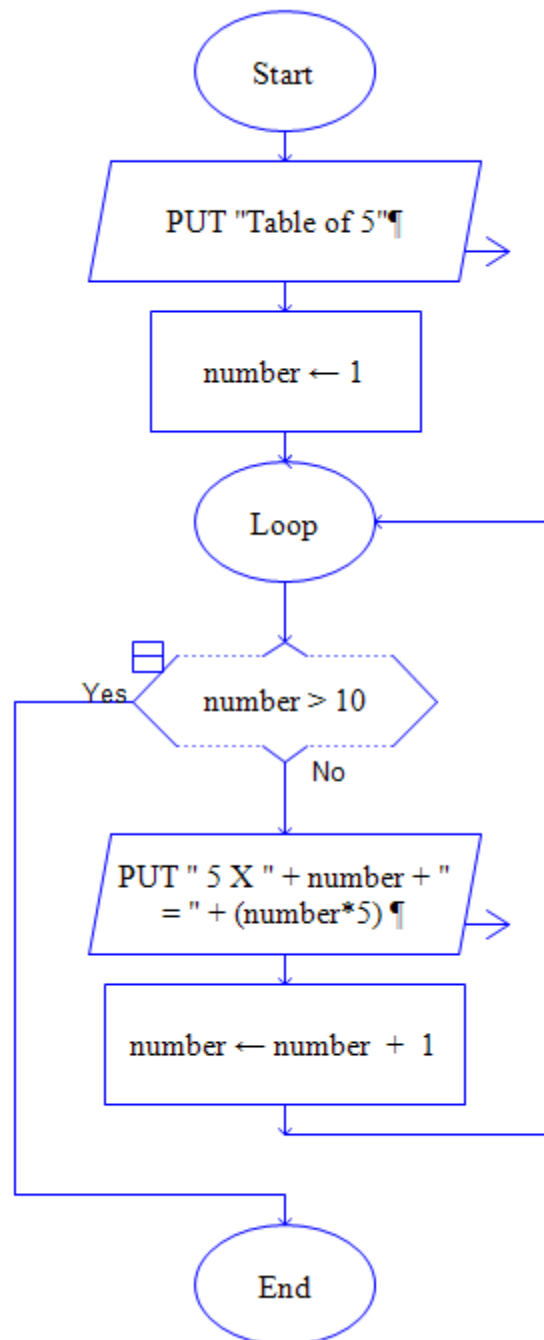
e) Check if the given number is Prime or not.

```
                                    ( Start )
                                        |
                                        v
          No                     Is the input
    <-------------------         number an integer?
    |                                   |
    |                                   | Yes
    |                                   v
    |        Yes                 Is the input
    | <----------------          number < or =
    |                                  1?
    |                                   |
    v                                   | No
Prime numbers are                       v
  integers > 1                       i = 2
    |                                   |
    v                                   v  <-----------------------------+
( Return No )            Yes        Is i > or =                          |
                   <----------      input number?                        |
                   |                    |                                |
                   v                    | No                            |
          The input number              v                               |
          is a prime number    Divide the input number by i             |
                   |                    |                                |
                   v                    v                               |
            ( Return Yes )    No     Is there a                         |
                        <----------  remainder?                         |
                        |               |                               |
                        v               | Yes                          |
              The input number          v                               |
           was evenly divided by i   i = i +1  ---------------------------+
             so it is not a prime
                        |
                        v
              The input number
            is not a prime number
                        |
                        v
                 ( Return No )
```
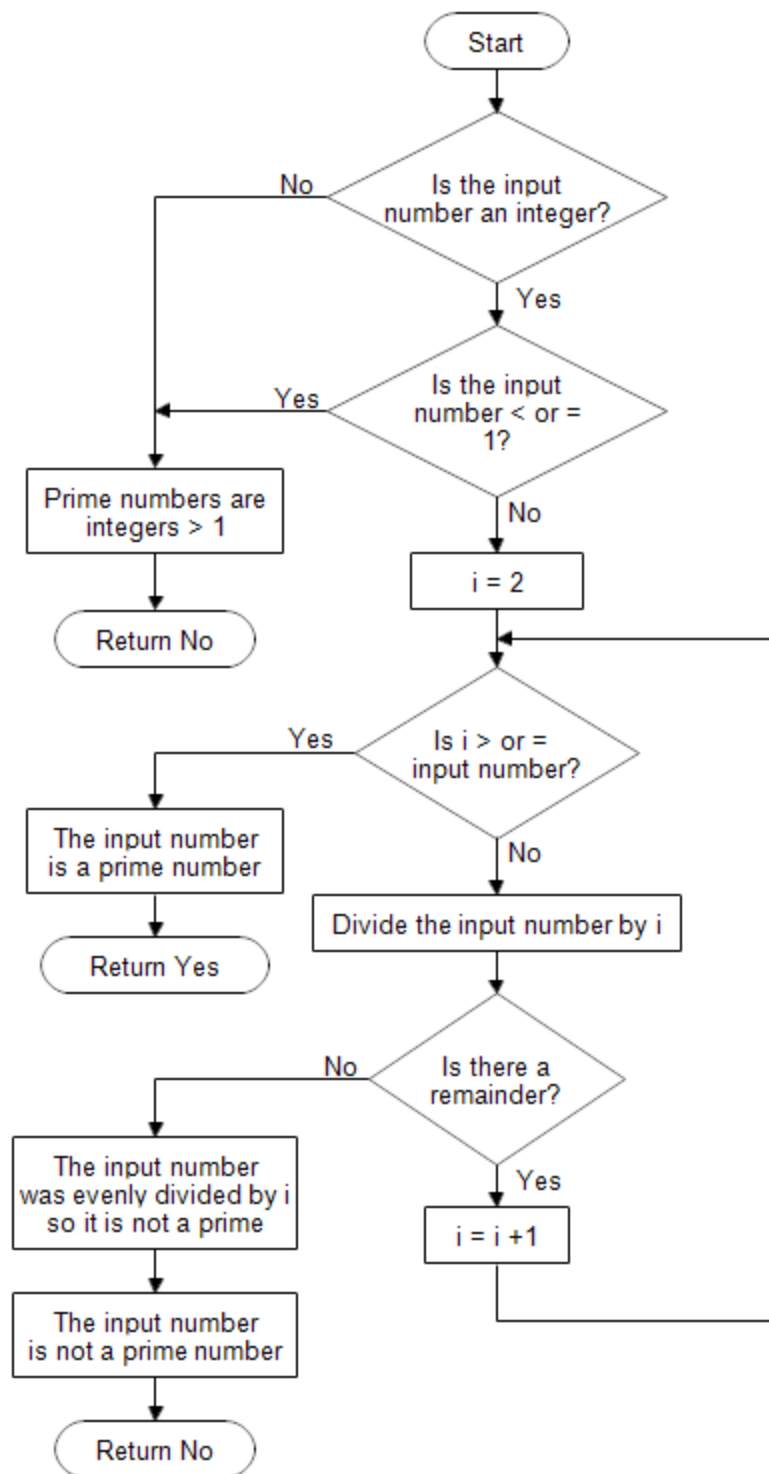
f) Print odd numbers backward from 99 to 1

```
            ( Start )
                |
                v
          / declare i /
                |
                v
          [ i = 20 ]
                |
                v
           < i > 0 >  --F-->  ( Stop )
                |
                | T
                v
          < i % 2 == 1 >  --F-->
                |
                | T
                v
          / print i /
                |
                v
          [ i = i - 1 ]
```