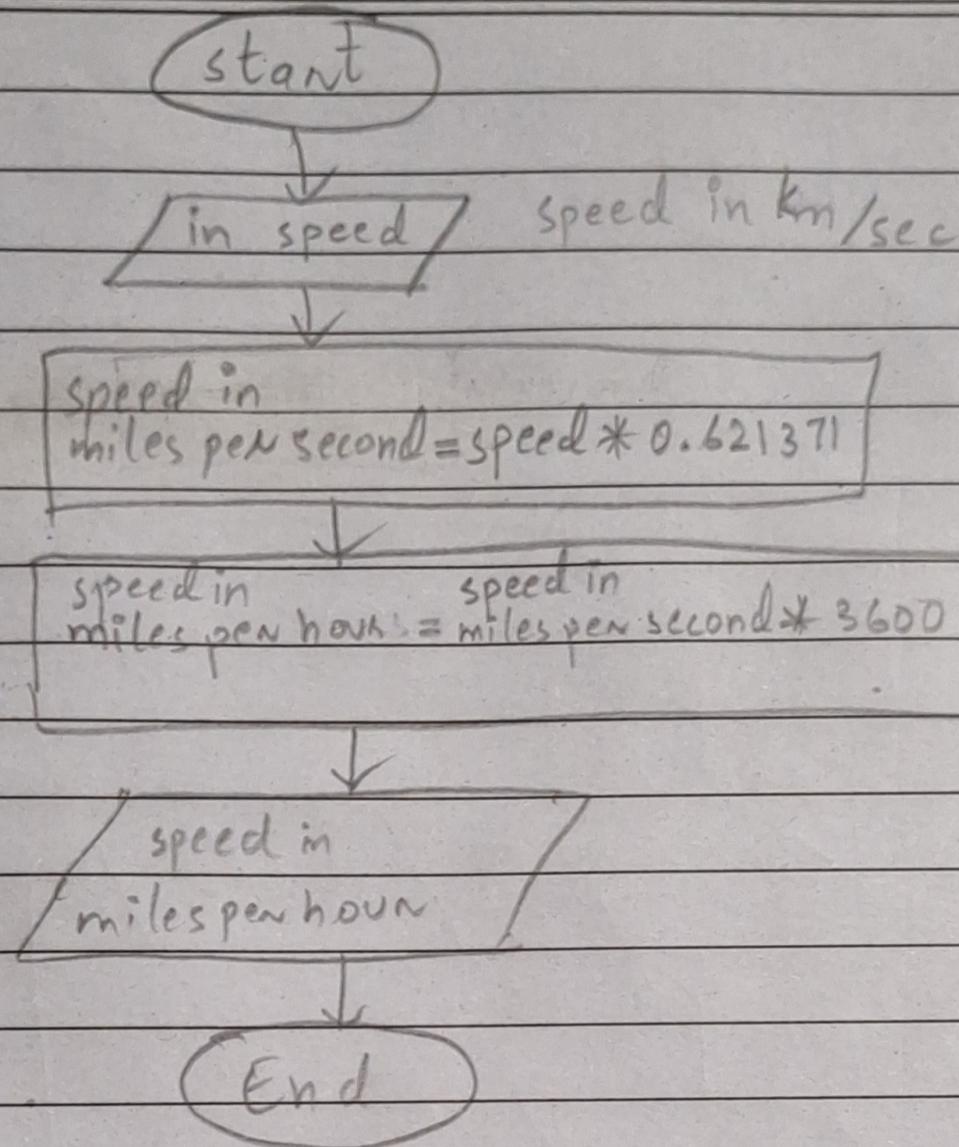


QUES 1

Date: _____



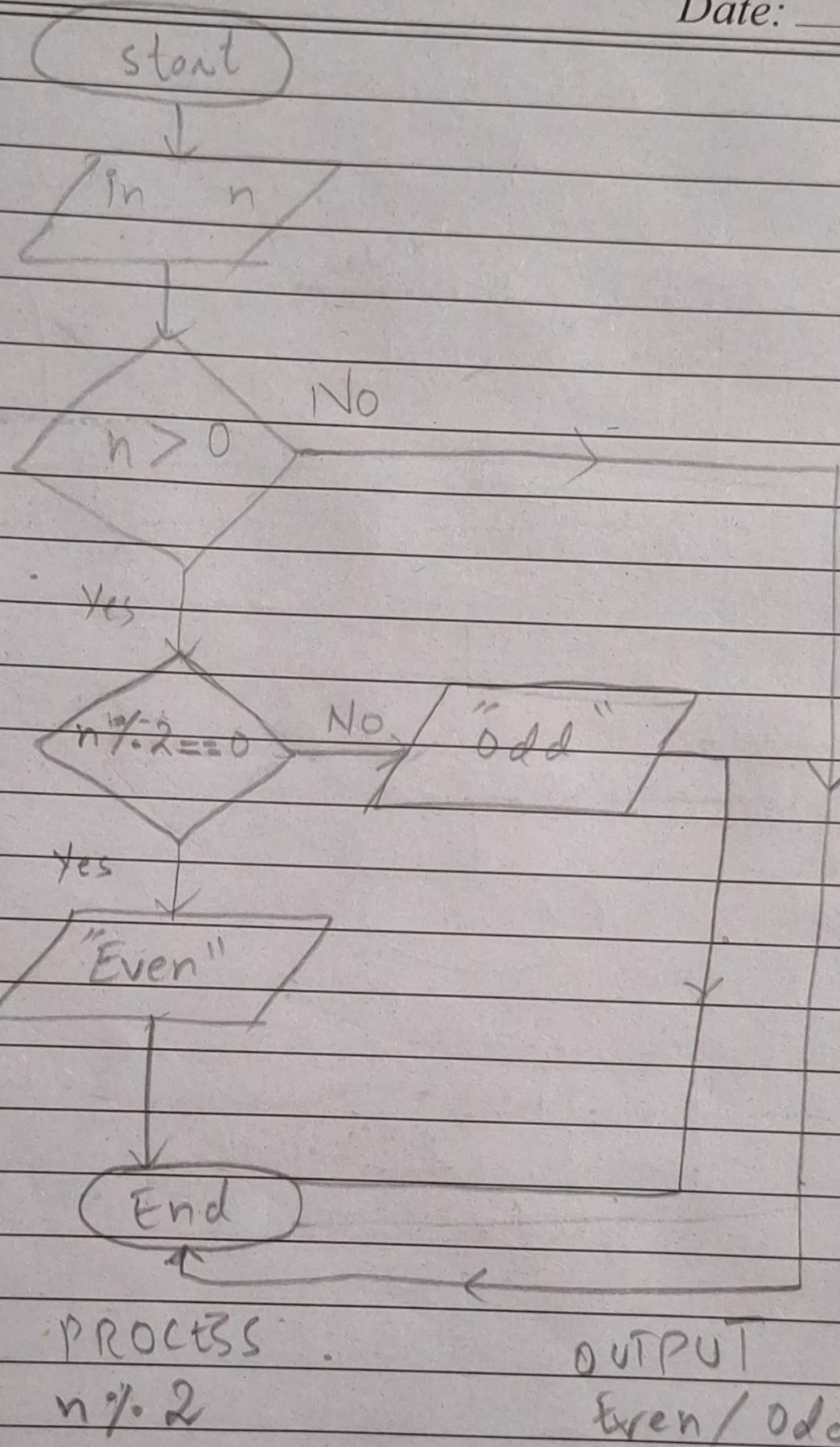
INPUT
Speed in
km/sec

PROCESS
speed * 0.621371
speed * 3600

OUTPUT
speed in
miles/hour

QUES 2

Date: _____



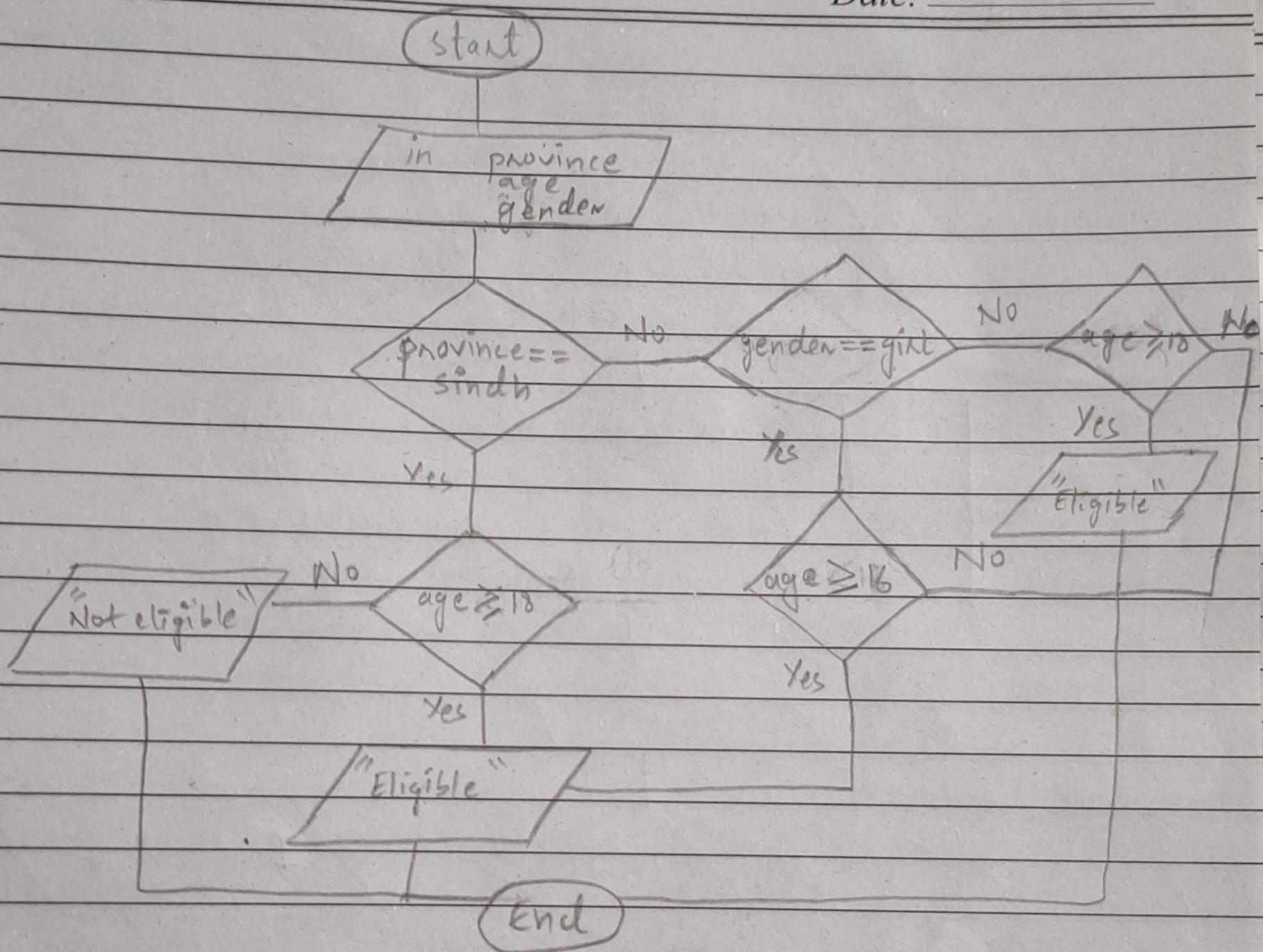
INPUT
number

PROCESS
 $n \% 2$

OUTPUT
Even / Odd

QUES 3

Date: _____



INPUT

province
gender
age

PROCESS

check age range
check gender
check province

OUTPUT

Eligible/not eligible
for marriage.

QUES 4

Date: _____

start

in money, onion price
 onion quantity, tomato price,
 tomato quantity, grapes price,
 grapes quantity, apricot price,
 apricot price

money
 onion = ?
 grapes = ?
 tomatoes = ?
 apricots = ?
 change = ?

Total cost = (onion price * onion quantity) +
 (tomatoes price * tomatoes quantity) +
 (grapes price * grapes quantity) +
 (apricots price * apricots quantity)

Total cost

money < total cost

Yes "Insufficient money"

No

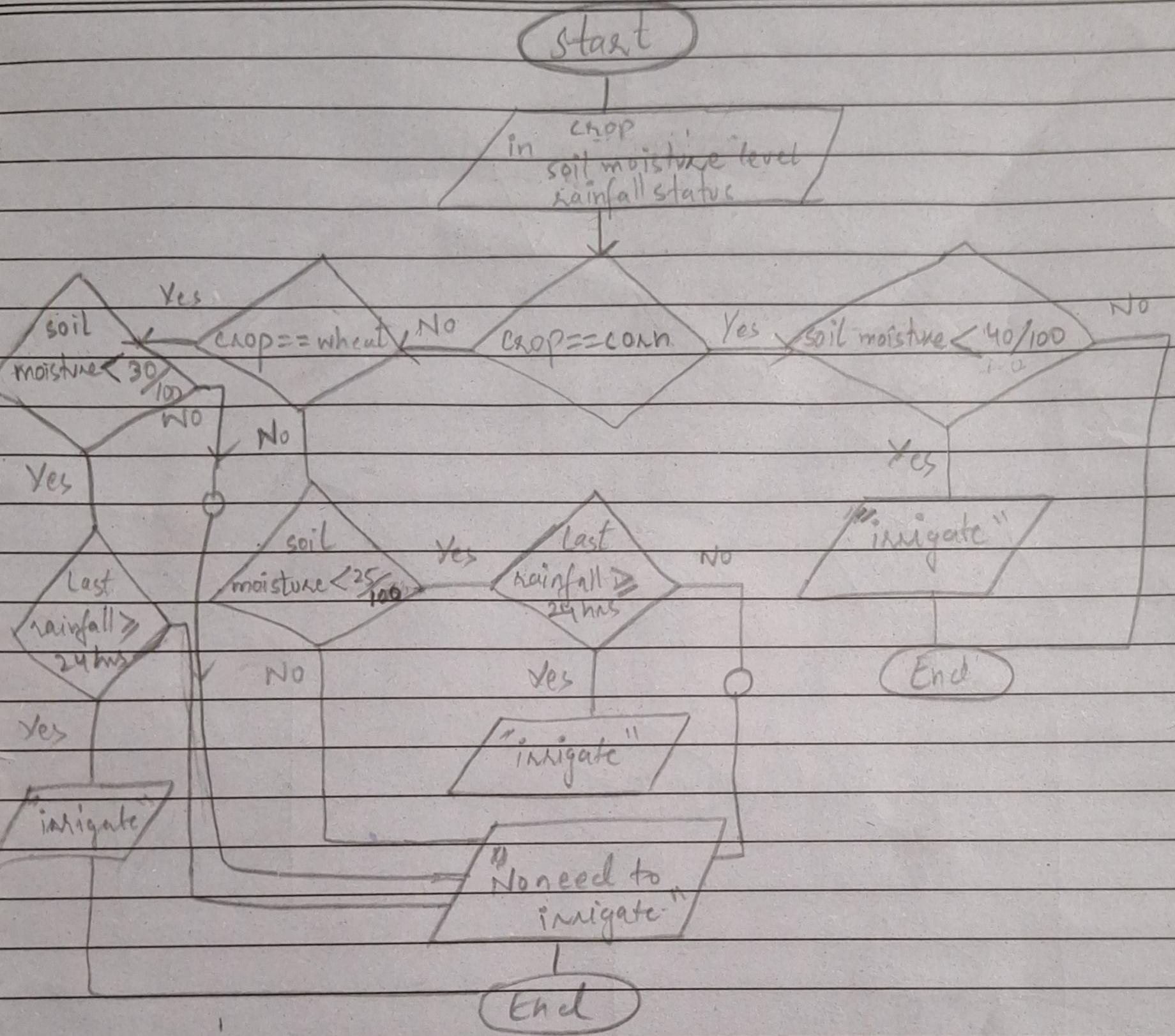
change = money -
 total cost

change

End

QUES 5

Date: _____



INPUT

crop
soil moisture
rainfall status

PROCESS

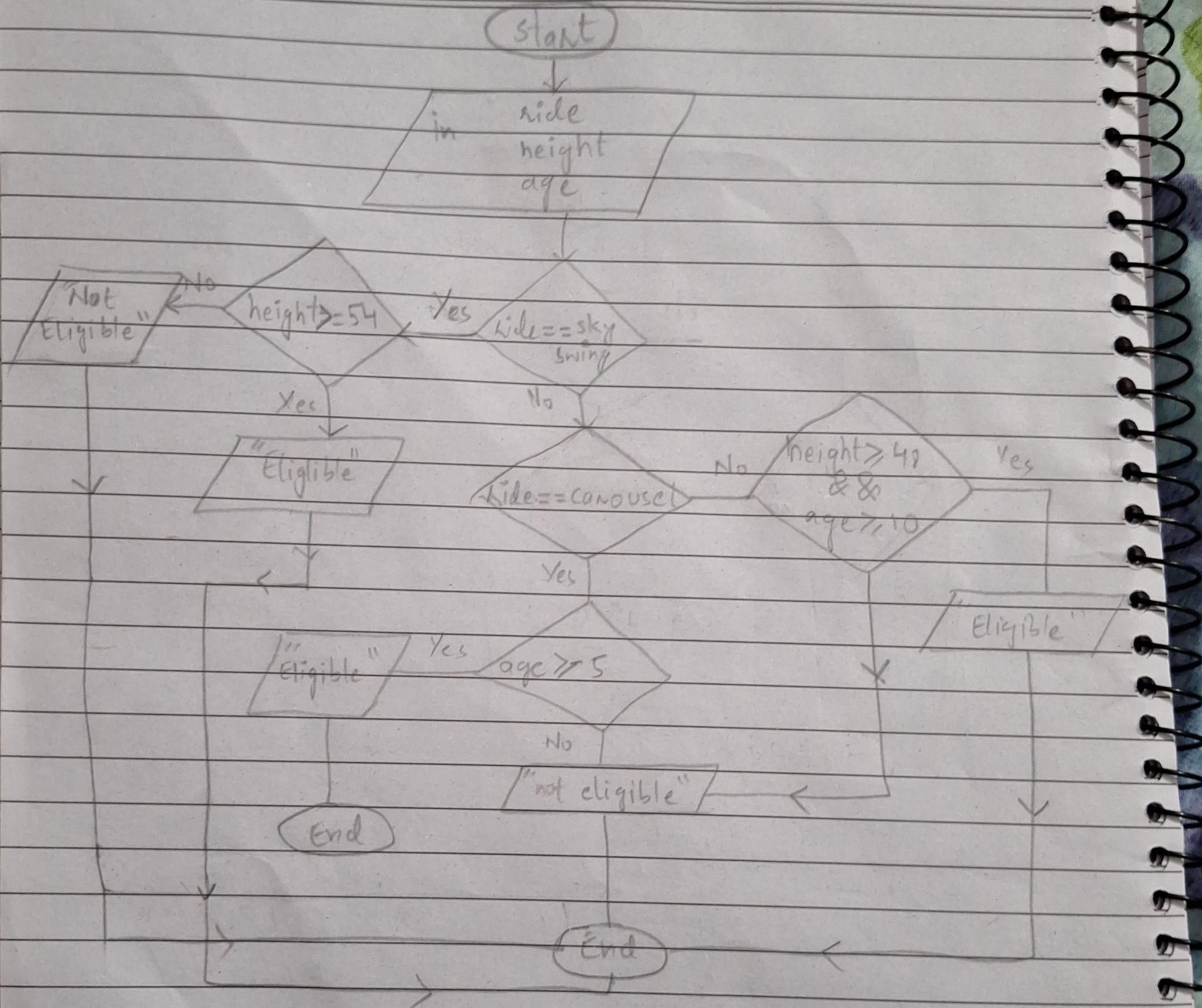
Check crop
Check soil moisture
Check rainfall status

OUTPUT

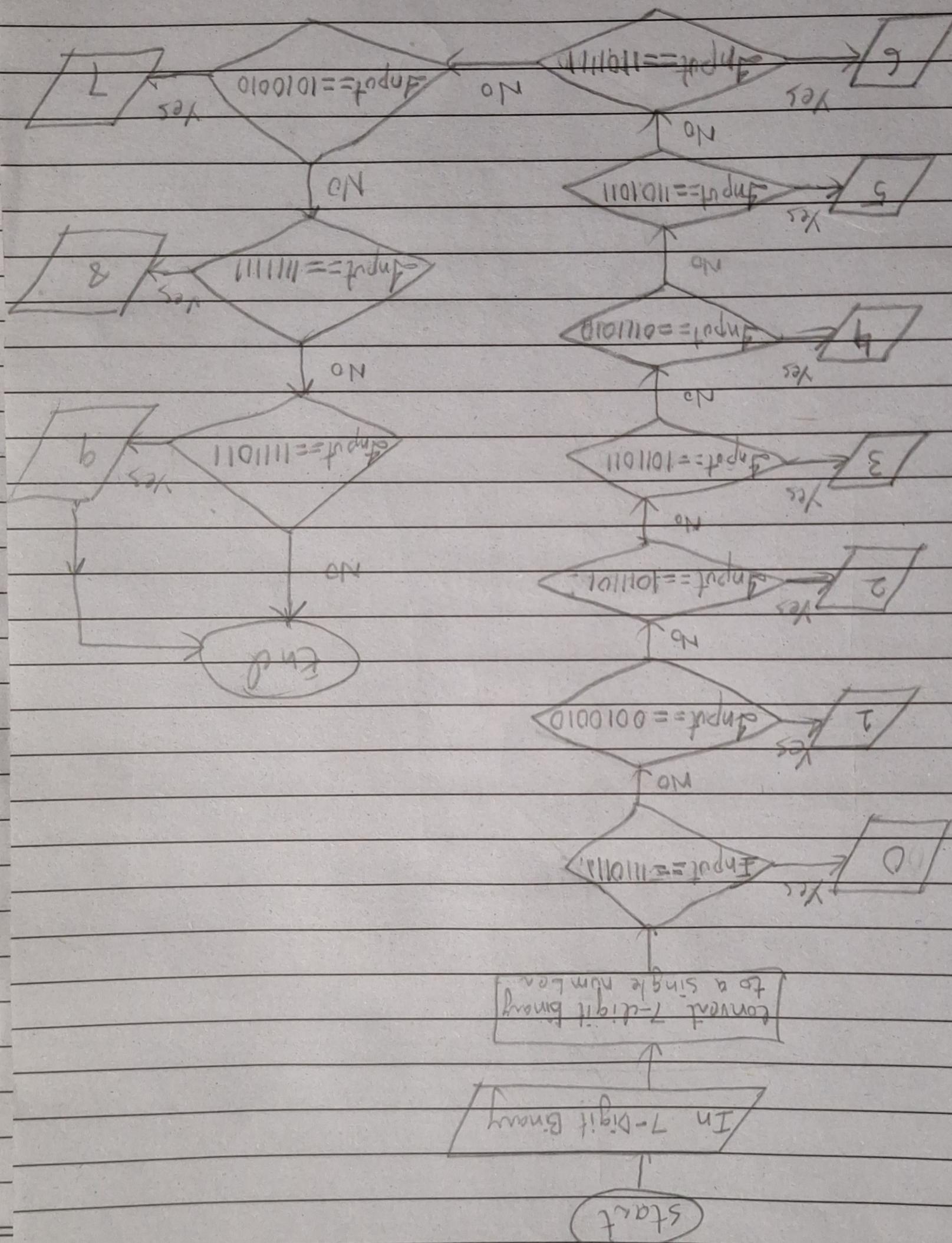
irrigate/
no need to
irrigate

QUES6

Date: _____



MIGHTY PAPER PRODUCT

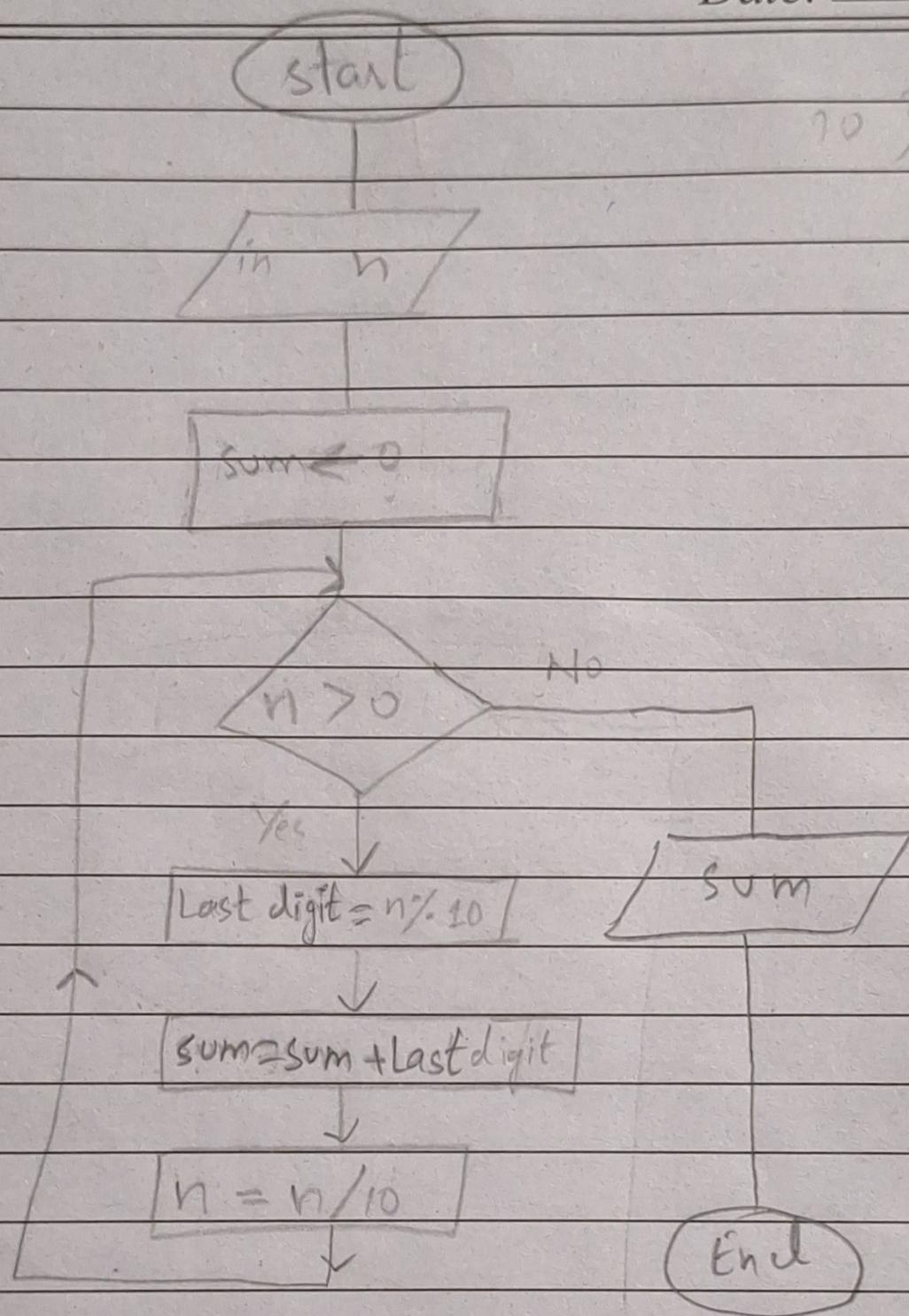


Date: _____

Ques 7

QUES 8

Date: _____



$$\begin{array}{r} 34 \\ 10 \overline{) 345} \\ 30 \\ \hline 45 \\ 40 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 0.1 \\ 10 \overline{) 1.0} \end{array}$$

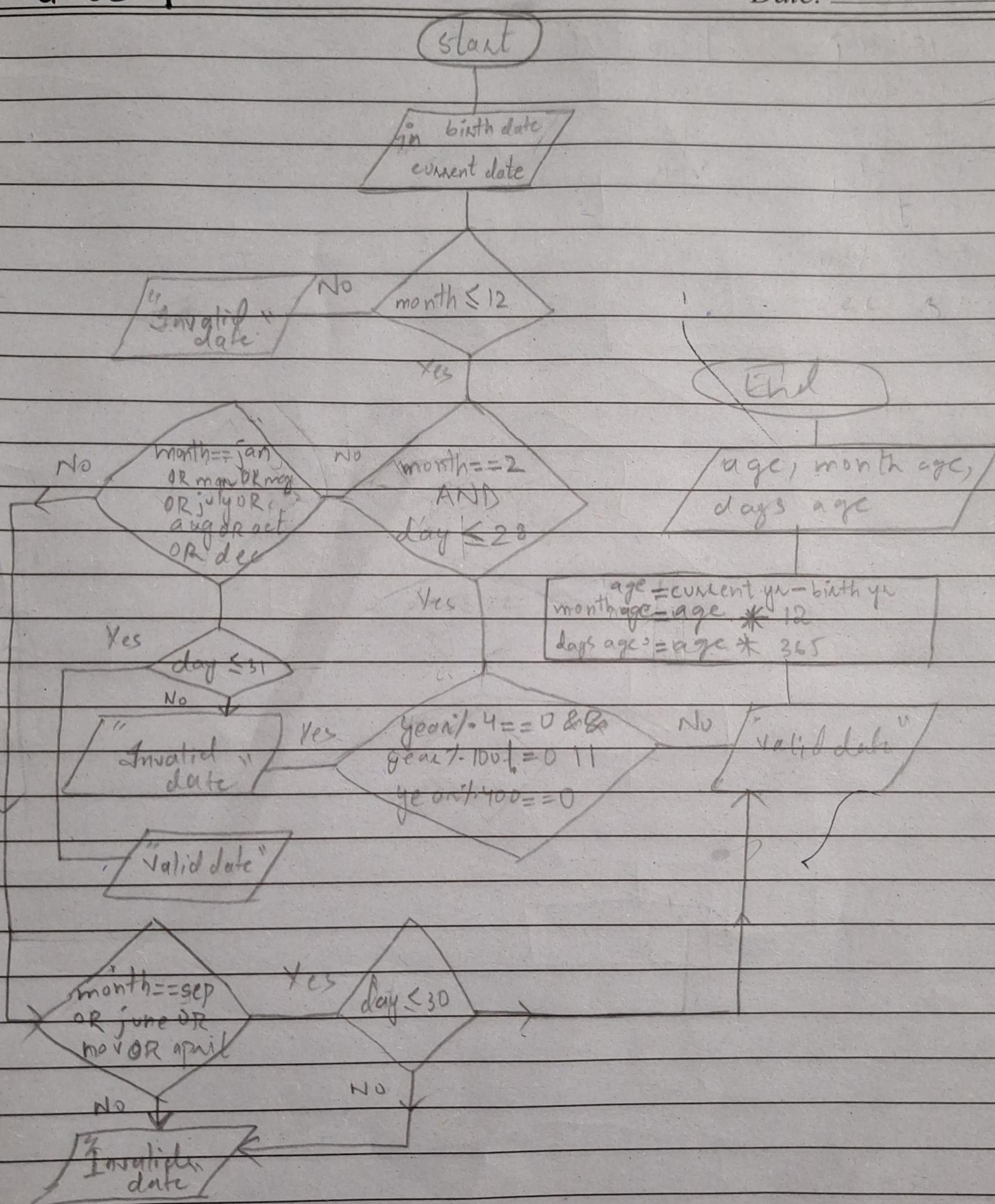
INPUT
number

PROCESS
 $n \% 10$
sum + last digit
 $n / 10$

OUTPUT
sum

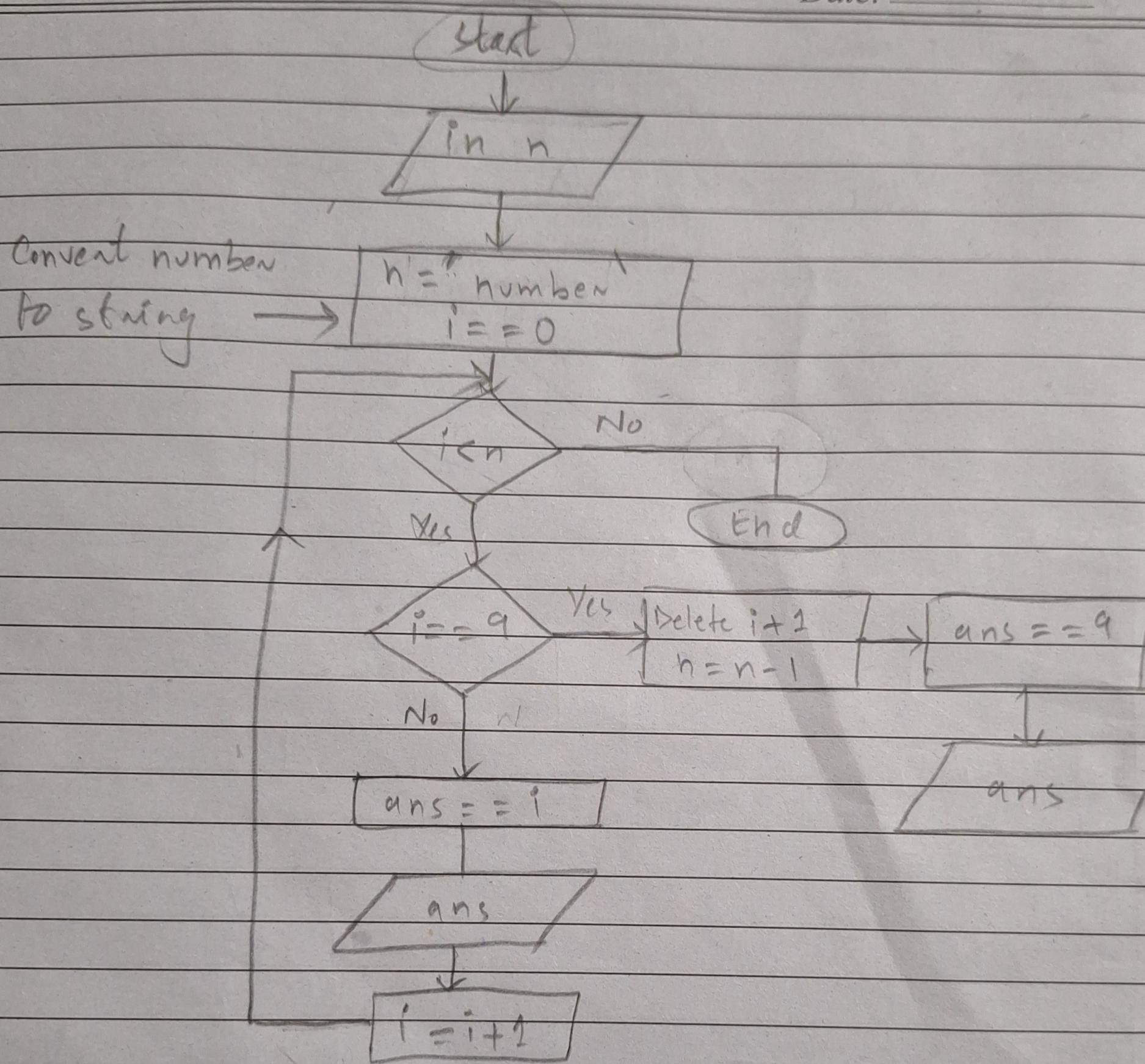
QUES 9

Date: _____



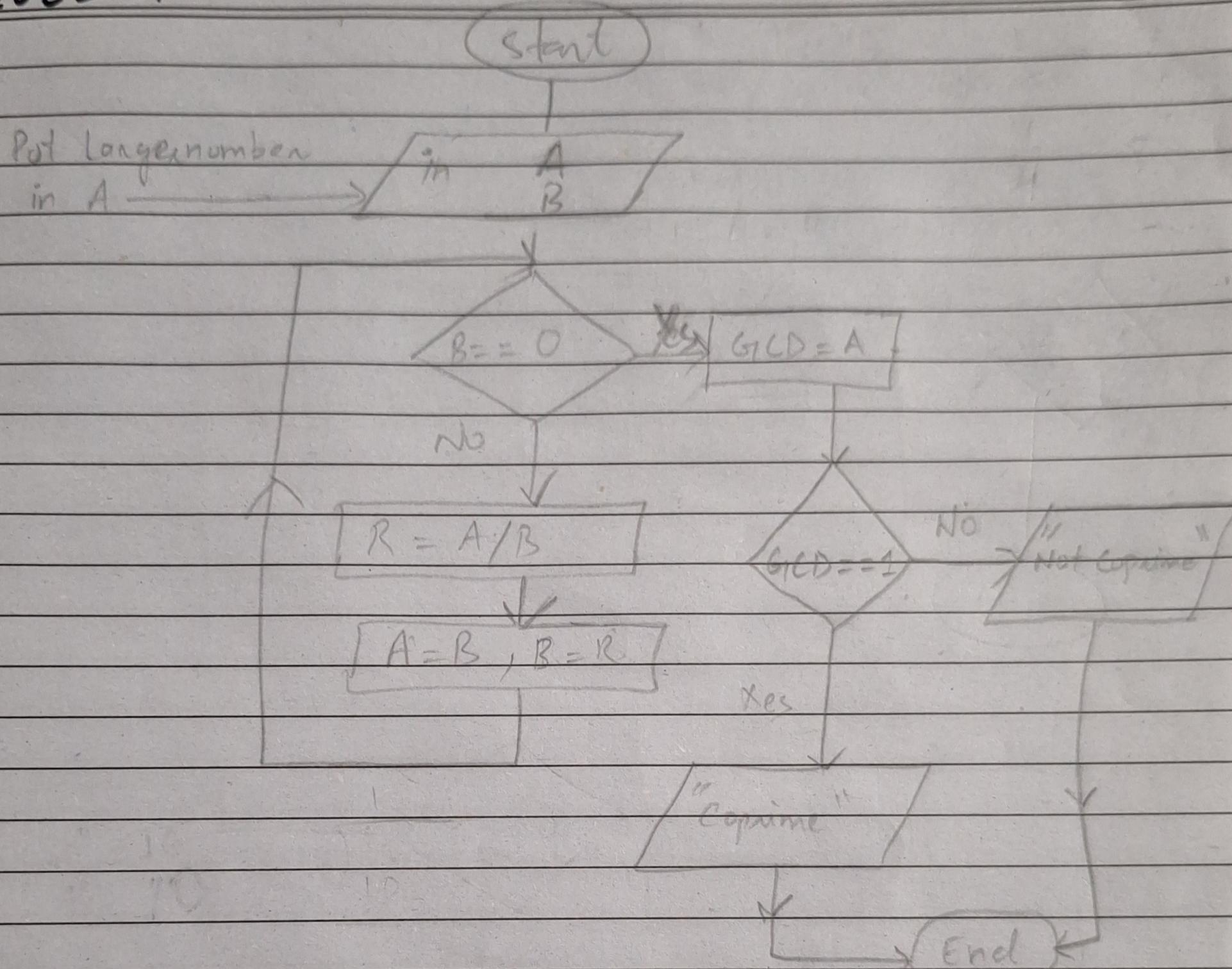
QUES 10

Date: _____



QUES II

Date: _____



INPUT

Number A

Number B

Process

A / B

$A = B, B = R$

OUTPUT

Coprime / Not coprime

QUES 12

Date: _____

(Start)

$$\begin{cases} \text{jugSL} = 0, \text{jugA} = 0 \\ \text{jugB} = 0 \end{cases}$$

$$1L = \text{jugSL} + 3L \text{ water}$$

$$\text{Filled jugSL} = 1L - \text{jugSL}$$

No

$$\text{Filled jugSL} = 5L$$

Yes

$$\text{jugA} = \text{jugA} + \text{Filled SL}$$

$$\text{SLjug} = 1L + \text{jugSL}$$

$$3L = \text{jugSL} + 3L \text{ water}$$

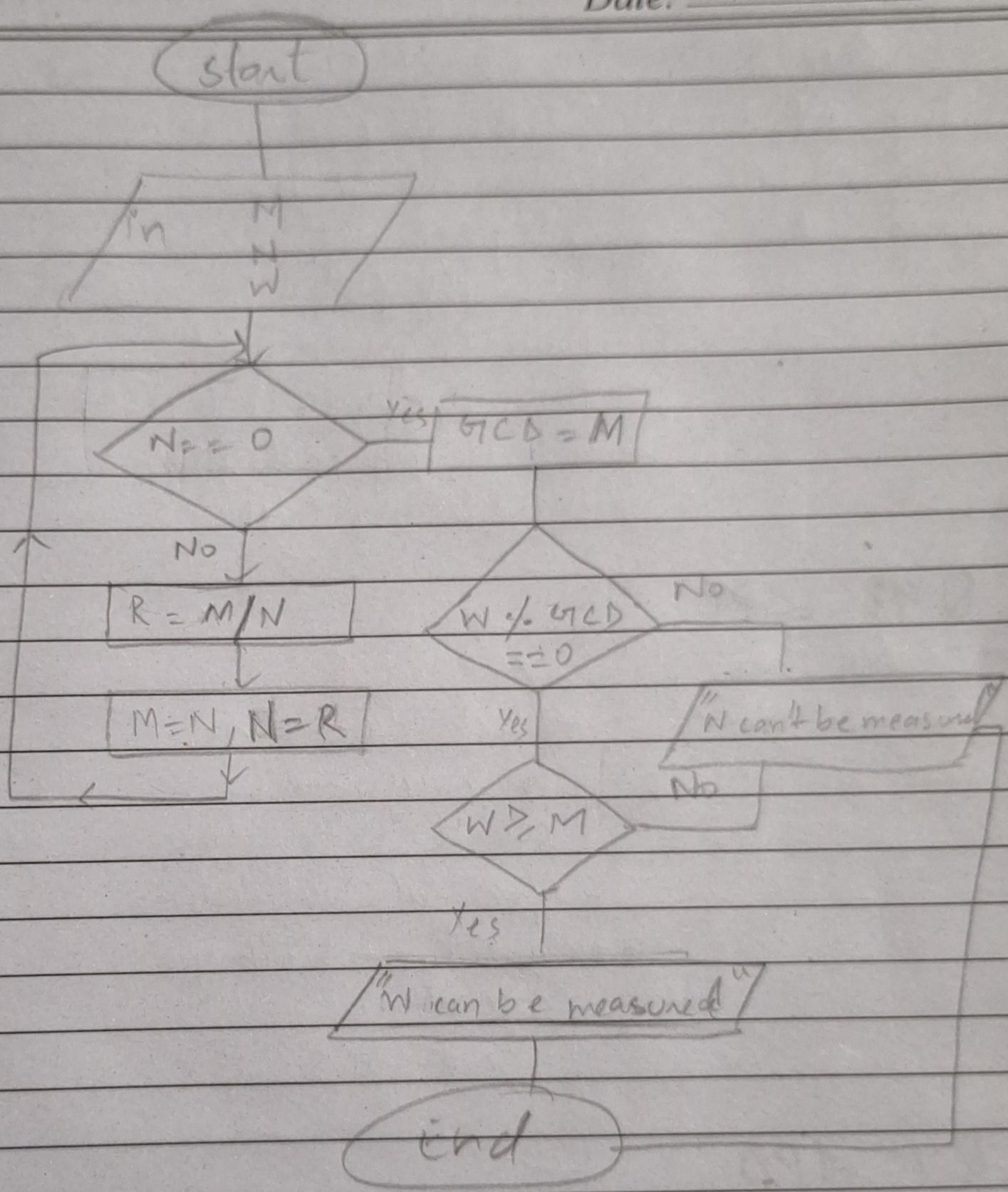
$$4L = \text{BL} + 5L \text{ jug}$$

4L measured, now pour on sensor quickly

End

QUEST 13

Date: _____



INPUT	PROCESS	OUTPUT
Large jug M	M/N	w can/cannot be measured
Small jug N	M = N, N = R	
quantity w	Calculate GCD W % GCD	

Q 12 IPO

Date: _____

INPUT	PROCESS	OUTPUT
jug 5L	- Fill 3L jug	
jug 5L	- Pour in 5L jug	
jug A	- Repeat until 5L jug full - Pour 3L jug in jug & - Pour 3L jug in 5L jug (1L) - Fill 3L jug and pour in 5L jug (4L)	4L water

Q 9 IPO

INPUT	PROCESS	OUTPUT
current date	- Check date range for every month	- Age in years
birth date	- Check leap year	- Age in months
	- After date validation, $age = current_yr - birth_yr$	- Age in days
	$age * 12$	
	$age * 365$	

Q 7 IPO

INPUT	PROCESS	OUTPUT
7-digit binary number	- Check for every number corresponding to single digit	- Digit

Date: _____

Q6 DPO

INPUT	PROCESS	OUTPUT
- ride	- Check age range for every ride	Eligible/not eligible
- height		
- age	- check height range	

Q4 DPO

INPUT	PROCESS	OUTPUT
- money	- price * quantity	- Total cost
- price of all fruits	- money - total cost	- change
- quantity purchased of all fruits		