23k-3032 (Shahtlunain)

Task: 1 (a)

GCD

1- START

2- declare num1, num2, i=1, gcd=1 as integers.

3- Enter/read two numbers.

4- repeat until i<=num1 and i<=num2

if num1 % i == 0 and num2 % i == 0

gcd=i

5- print gcd

6- STOP

flowchart

Task 1(a) (b)

1- Start

2- declare variables

3- Enter side numbers A, B, C

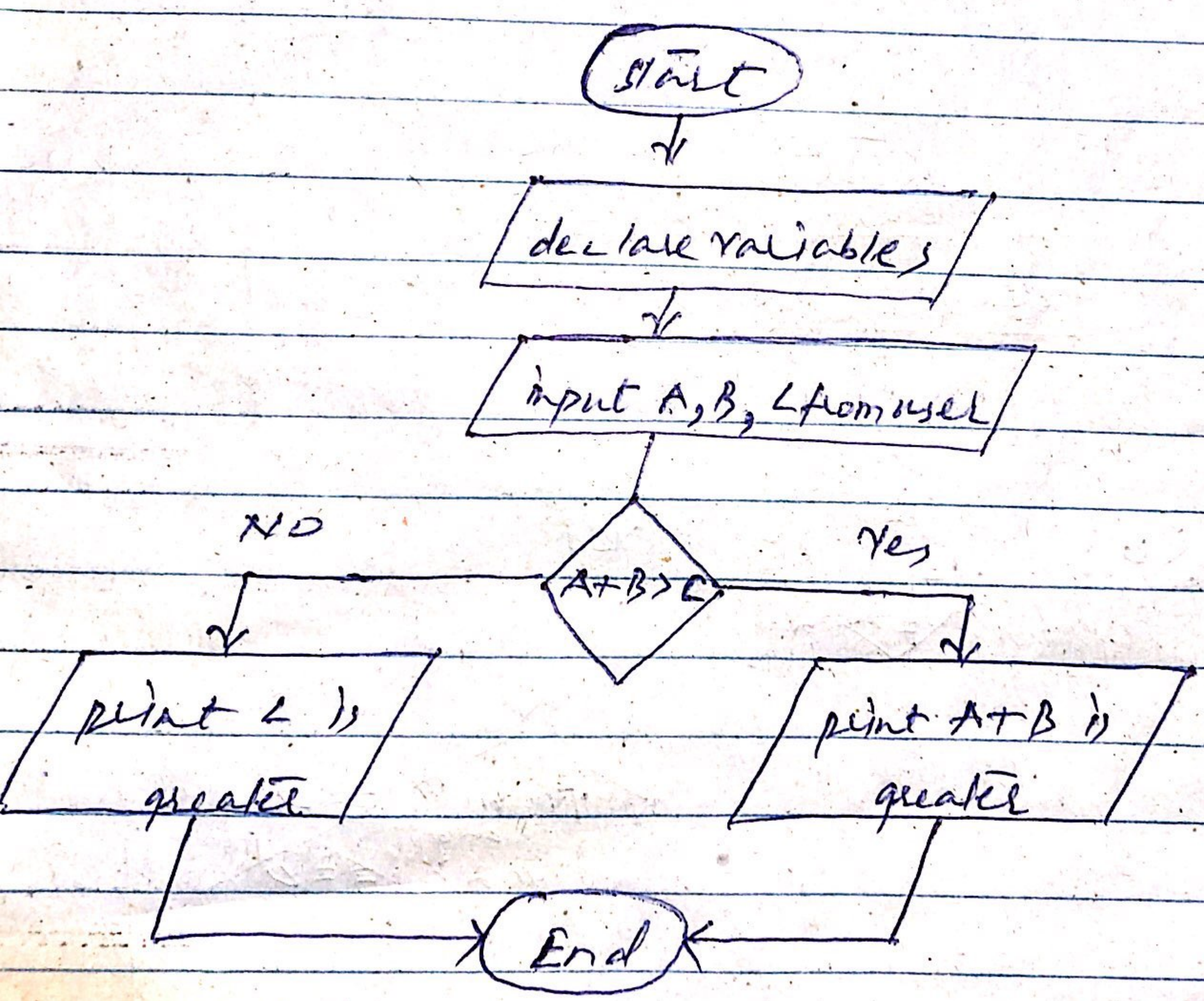
4- if (A + B > C)

{ printf("%d + %d is greater", A, B); }

else {

printf("%d is greater", C); }

5- End



1- start

2- declare variables, a, b, c, d, e, f, g, h, i, j

3- input 10 numbers from user

4- if(a<b && a<c && a<d && a<e && a<f && a<g && a<h && a<i && a<j) { printf("a is smallest", a) }
else repeat step 4 for b, c, d, e, f, g, h, i, j

5- print smallest number

6- stop

Date: _____

d)

1- let pos=1 and i=pos+1 and n=length of numbers and largest = 0

2- if num[pos] < num[i] then largest = i

3- i = i+1

4- Repeat from '2' until i > n

5- let a = num[pos]

6- num[pos] = num[largest]

7- num[largest] = a

8- pos = pos+1 and then i = pos+1

9- Repeat from '2' until pos > n.

d)


Start
pos=1 , n= length numbers
i = pos+1 , largest = 0
A
if num[pos] < num[i]
yes
largest = i
NO
i++
if i>n
NO
A
yes
a= num[pos]
num[pos] = num[largest]
num[largest] = a
pos ++
i = pos+1
if pos>n
yes
End
NO
A

e) 1- start

2- declare variable

3- input number of numbers i.e., n

4- for (int i = 0 ; i<n , i++)

{ if (i % 2 == 0)

{ printf i }

}

5- stop