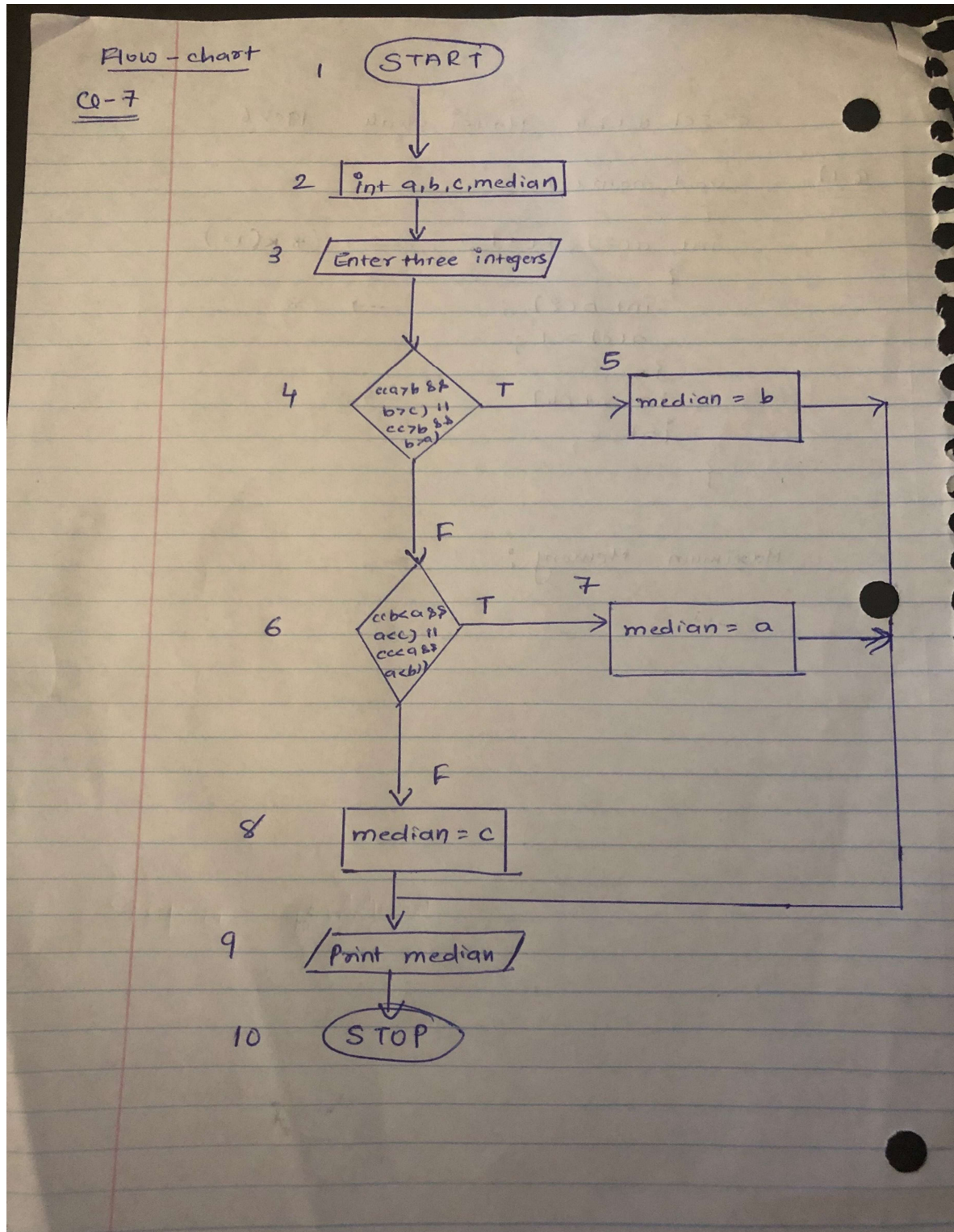


Q7: Conditional statement to find median of three values.



# Trace table

<u>Step</u>	a	b	c	median	$((a > b \&\& b > c) \vee ((b < a \&\& a < c) \vee ((c > b \&\& b > a) \vee ((c < a \&\& a < b))))$		Screen
					Condition-1	Condition-2	
2	?	?	?	?			
3	12	35	22	?			Enter three int
4					$((F \& T) \vee ((F \& T)))$ $= F$		
6					$((F \& T) \vee ((F \& F)))$ $= F$		
8				22			
9							Median is 22

```

1 package week2;
2
3 import java.util.Scanner;
4
5 public class Q7 {
6     public static void main(String args[]) {
7         int a, b, c;
8         int median;
9         System.out.print("Enter 3 integers:");
10        Scanner reader = new Scanner(System.in);
11        a = reader.nextInt();
12        b = reader.nextInt();
13        c = reader.nextInt();
14        reader.close();
15
16        if ((a > b && b > c) || (c > b && b > a)) {
17            median = b;
18        } else if ((b < a && a < c) || (c < a && a < b)) {
19            median = a;
20        } else {
21            median = c;
22        }
23
24        System.out.println("Median is : " + median);
25
26    }
27 }
28
29

```

Console Problems Debug Shell

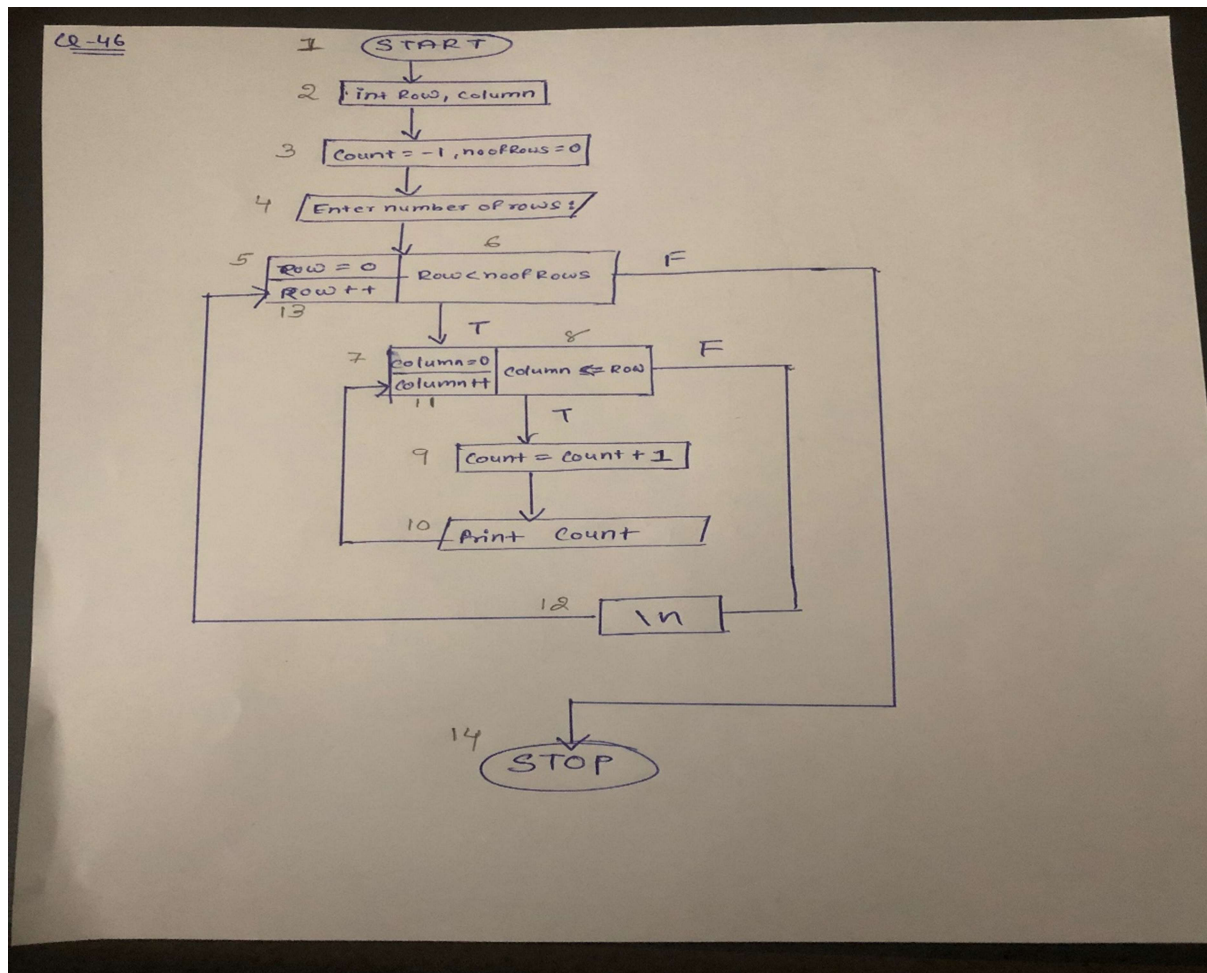
<terminated> Q7 (2) [Java Application] C:\Program Files\Java\jre1.8.0\_211\bin\javaw.exe (Sep 24, 2019, 1:26:02 AM)

Enter 3 integers:12 35 22

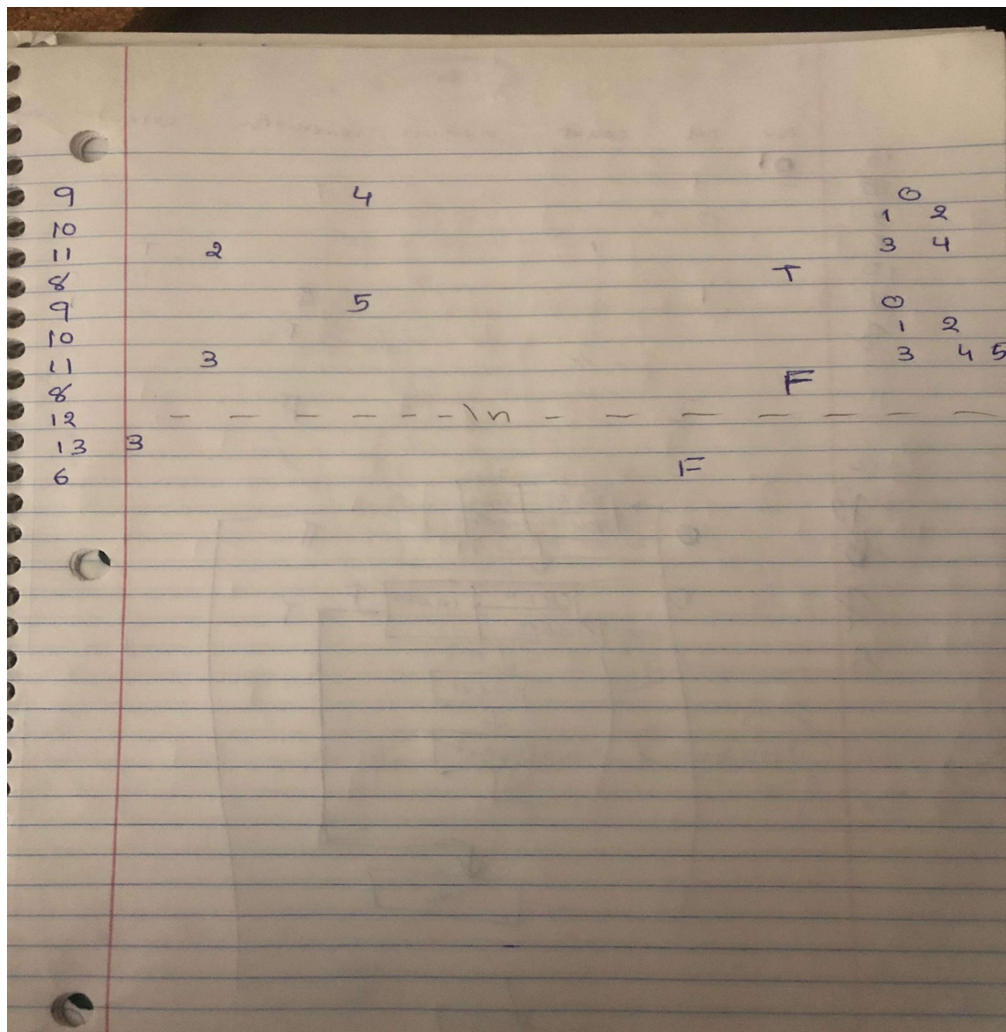
Median is : 22



Q46: Display triangle of numbers



Steps	Row	Column	Count	noOfRows	Row < noOfRows	Column > Row	Output
2	?	?					
3			-1	0			
4				3			
5	0						Enter no of Rows
6					T		
7		0					
8						T	
9			0				
10							0
11		1					
12						F	
13	1						
6					T		
7		0					
8						T	
9			1				0
10							1
11		1					
12						T	
13			2				0
6							1 2
7		2					
8						F	
9							
10	2						
11					T		
12		0					
13						T	
6							
7							
8							
9			3				0
10							1 2
11		1				T	
12							3



```
1 package week2;
2
3 import java.util.Scanner;
4
5 public class Q46 {
6     public static void main(String args[]) {
7         int row, column;
8         int count = -1;
9         int noOfRows = 0;
10
11         System.out.print("Enter number of rows:");
12         Scanner reader = new Scanner(System.in);
13         noOfRows = reader.nextInt();
14         reader.close();
15
16         for (row = 0; row < noOfRows; row++) {
17             for (column = 0; column <= row; column++) {
18                 count = count + 1;
19                 System.out.print(count + " ");
20             }
21             System.out.println();
22         }
23     }
24 }
25 }
26
```

Console Problems Debug Shell

<terminated> Q46 [Java Application] C:\Program Files\Java\jre1.8.0\_211\bin\javaw.exe (Sep 24, 2019, 1:38:11 AM)

Enter number of rows:3

0

1 2

3 4 5