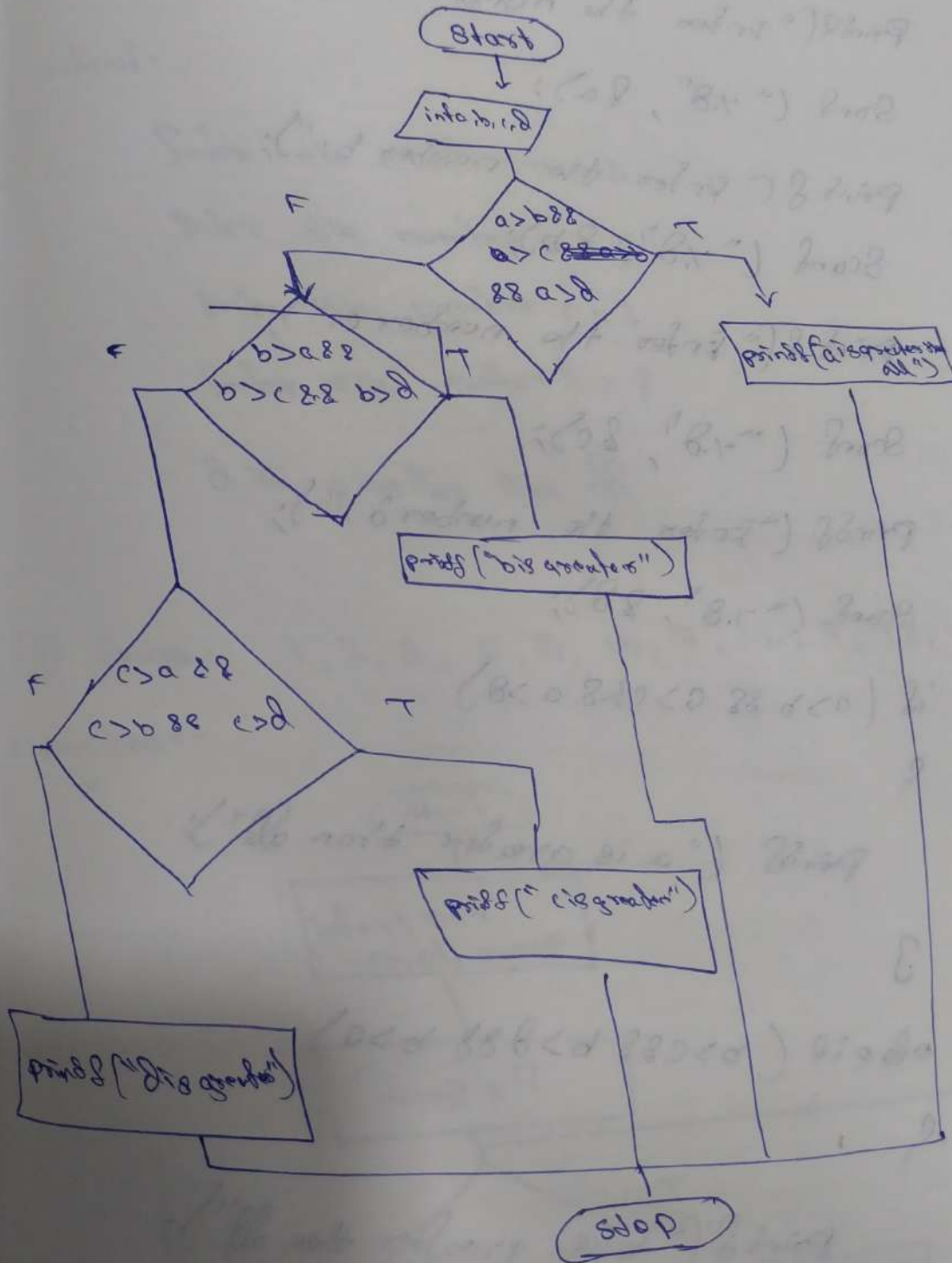


Flowcharts

① Find largest number and smallest number among four numbers (user input)?

Flowchart:



code:

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int a, b, c, d;
```

```
    printf("Enter the number a:");
```

```
    scanf("%d", &a);
```

```
    printf("Enter the number b:");
```

```
    scanf("%d", &b);
```

```
    printf("Enter the number c:");
```

```
    scanf("%d", &c);
```

```
    printf("Enter the number d:");
```

```
    scanf("%d", &d);
```

```
    if (a > b && a > c && a > d)
```

```
    {
```

```
        printf("a is greater than all");
```

```
    }
```

```
    else if (b > c && b > d && b > a)
```

```
    {
```

```
        printf("b is greater than all");
```

```
    }
```

```
    else if (c > d && c > a && c > b)
```

```
    {
```

```
        printf("c is greater than all");
```

else

{

printf("d is greater than all");

}

return 0;

}

output:

Enter the number a = 5

Enter the number b = 6

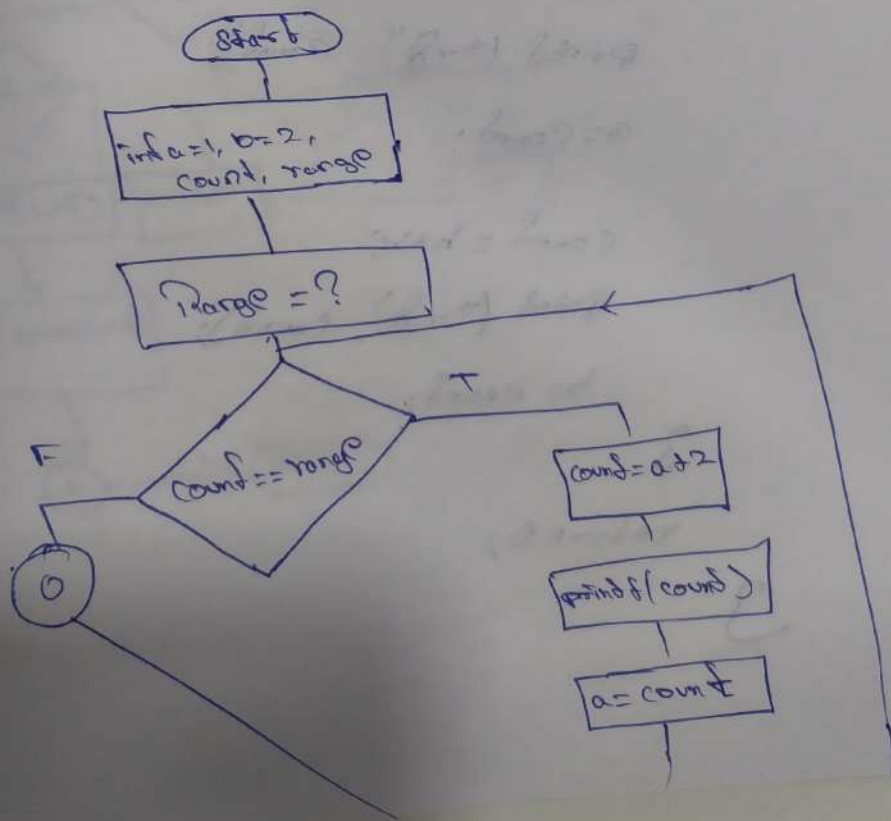
Enter the number c = 7

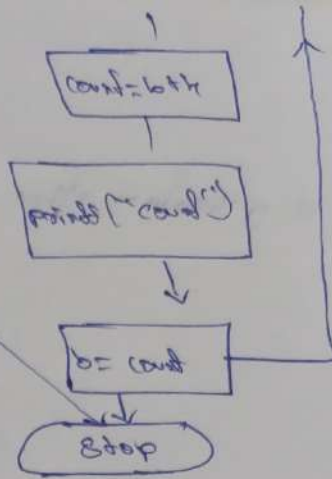
Enter the number d = 8

d is greater than all

② Series: 1, 2, 3, 6, 5, 10, 7, 14, 9, 18, 11, ...

FLOWCHART:





code:

```
#include <stdio.h>
```

```
int main ()
```

```
{
```

```
int a = 1, b = 2, count, range;
```

```
printf("Enter the range");
```

```
scanf("%d", &range);
```

```
while (count == range)
```

```
{
```

```
count = a + 2;
```

```
printf("%d", count);
```

```
a = count;
```

```
count = b + h;
```

```
printf("%d", count);
```

```
b = count;
```

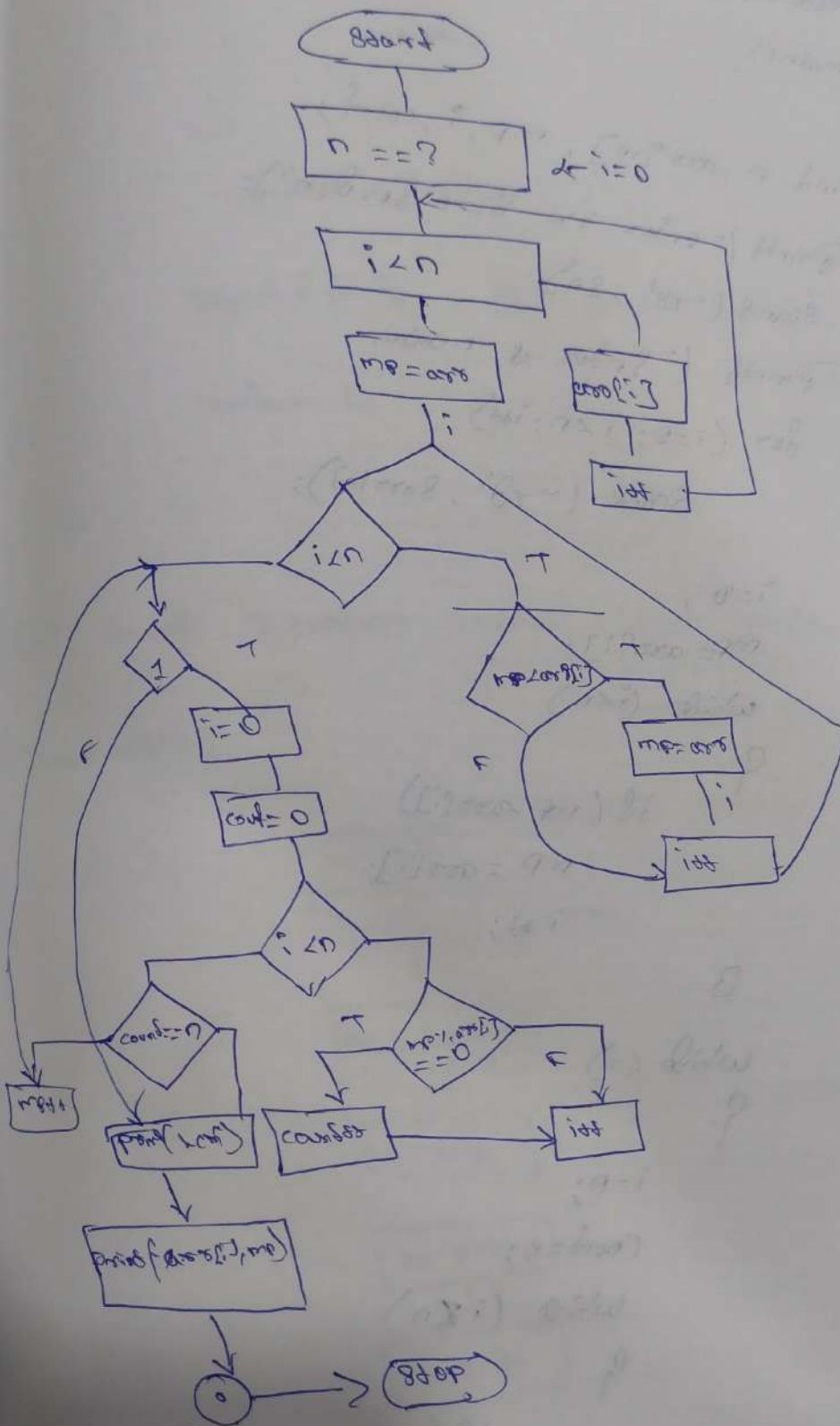
```
}
```

```
return 0;
```

```
}
```


③ LCM of numbers (user input)?

Flowchart:



code:

```
#include <stdio.h>
```

```
#include <math.h>
```

```
int main()
```

```
{
```

```
int n, arr[10], mp, i, count;
```

```
printf("Enter the size of arr:");
```

```
scanf("%d", &n);
```

```
printf("Enter the number
```

```
for (i=0; i<n; i++):
```

```
scanf("%d", &arr[i]);
```

```
i=0;
```

```
mp=arr[i];
```

```
while (i<n)
```

```
{
```

```
if (mp < arr[i])
```

```
mp = arr[i];
```

```
i++;
```

```
}
```

```
while (1)
```

```
{
```

```
i=0;
```

```
count=0;
```

```
while (i<n)
```

```
{
```

```
if (mp == arr[i])
```

```
count++;
```

```
i++;
```

```
}
```

if (count == n)

break;

else

next;

}

printf("\n len = ");

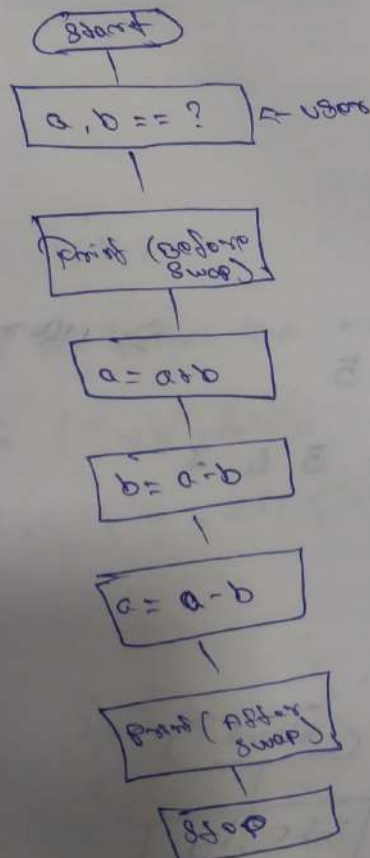
printf("%d = %d", arr[i], mp);

return 0;

3

② Swap 2 numbers without temp variable?

Flowchart:



code:

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int a, b;
```

```
    printf("Enter the numbers a:");
```

```
    scanf("%d", &a);
```

```
    printf("Enter the numbers b:");
```

```
    scanf("%d", &b);
```

```
    printf("Before swap: %d %d", a, b);
```

```
    a = a + b;
```

```
    b = a - b;
```

```
    a = a - b;
```

```
    printf("After swap: %d %d", a, b);
```

```
    return 0;
```

```
}
```

⑤ solve: 1

1 2 3

1 2 3 4 5

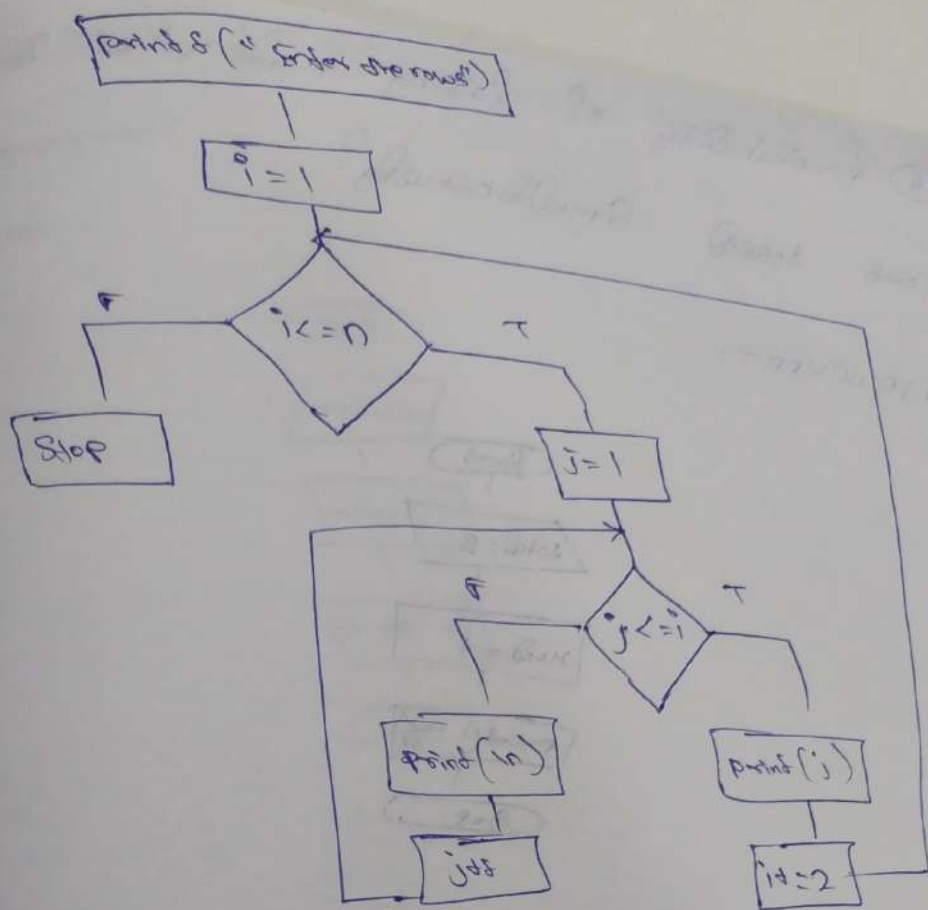
1 2 3 4 5 6 7

→ user input (No. of Rows)

FLOWCHART:

start

int n, i, j;



```

code:
#include <stdio.h>

int main()
{

```

```

    int n, i, j;

```

```

    printf("Enter the number of rows:");

```

```

    scanf("%d", &n);

```

```

    for (i = 1; i <= n; i += 2)
    {

```

```

        {

```

```

            for (j = 1; j <= i; j++)
            {

```

```

                {

```

```

                    printf("%d", j);

```

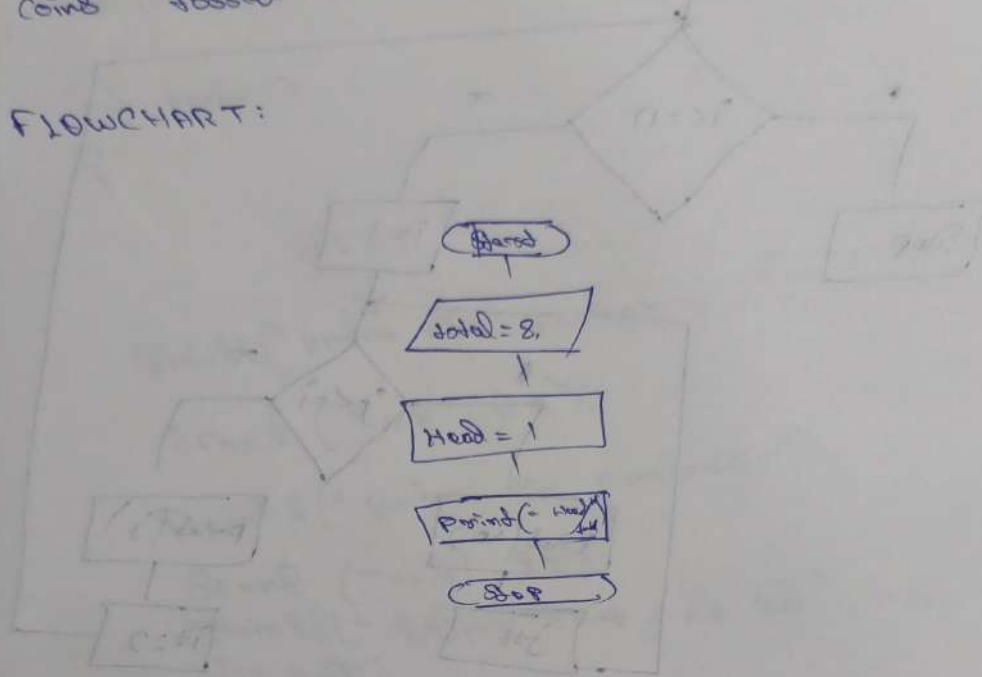
```

                    printf("\n");
                }
            }
        }
    }
}

```

⑥ probability of finding heads when 3 coins tossed simultaneously?

FLOWCHART:



code:

~~#include <stdio.h>~~

int main()

{

int total=8;

int head=1;

double Probability = head/total;

printf("Probability of getting heads on all 3 coins: %.2lf /n", Probability);

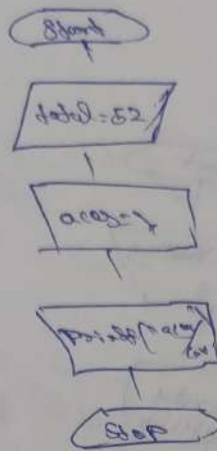
return 0;

}

and prob:

=> 1/8;

② probability of finding are in code of code in program?
 research:



cal:

~~int~~ `<80 to n>`

int main()

{

int total=52;

int area=1;

double Probability = area/total;

Print ("Probability of getting area: %.288f\n", Probability);

return 0;

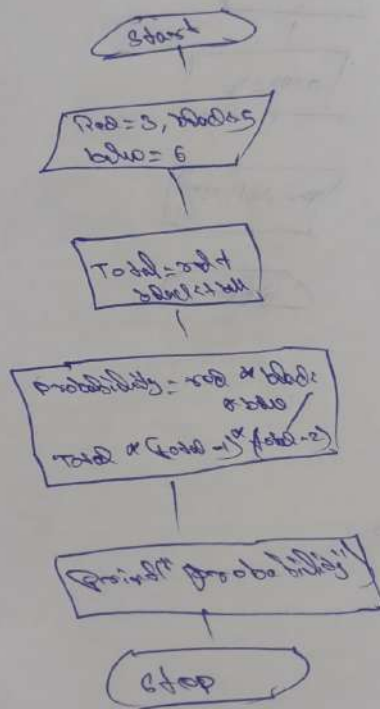
}

output:

$\Rightarrow 1/52$

⑧ In a box we have 3 red, 5 black, 6 blue balls. If we draw 3 balls, find the probability of getting 1 red, 1 black, 1 blue in a program?

Flowchart:



$$\text{Probability} = \frac{\text{Total balls}}{\text{Total comb}}$$

code:

```
#include <stdio.h>
```

```
int main()
```

```
{
```

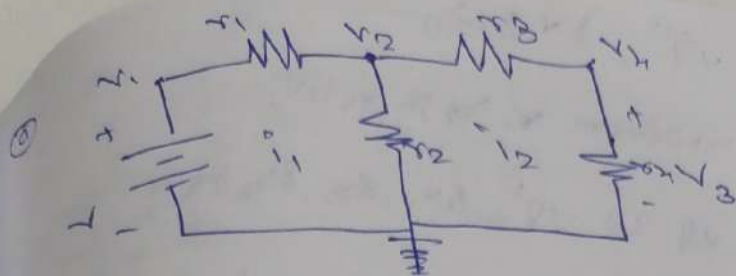
```
    int red = 3, black = 5, blue = 6;
```

```
    int Total = red + black + blue;
```

```
    Probability = (red * black * blue) / (Total * (Total - 1) * (Total - 2));
```

```
    printf("Probability of balls: %d\n", Probability);
```

```
    return 0;
```

calculation:

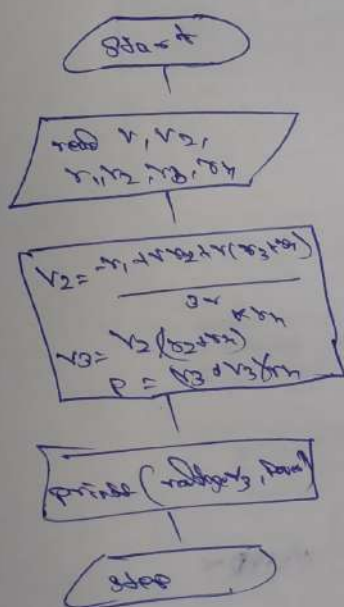
$$\frac{V_2 - V_1}{R_1} + \frac{V_2}{R_2} + \frac{V_2}{R_3 + R_4} = 0$$

$$V_1 = 2R$$

$$V_3 = \frac{V_2}{R_3 + R_4} \times R_4$$

$$P = \frac{V_3^2}{R_4}$$

FLOWCHART:



code:

```
# include <stdio.h>
```

```
int main()
```

```
{
```

```
float R1, R2, R3, R4, V1, V2, V3, P;
```

```
printf("Enter the values for R1, R2, R3, R4, V1, V2, V3, P:");
```

$$I_2 = \frac{V_1}{R_3 + R_4}$$

$$\frac{V_2 - V_1}{R_1} = -\frac{V_2}{R_2} - \frac{V_2}{R_3 + R_4}$$

$$-V_1 = \frac{R_1}{R_2} \frac{V_2}{R_2} - \frac{V_2}{R_3 + R_4}$$

$$V_1 = \frac{V_2}{R_2} + \frac{V_2}{R_3 + R_4} - \frac{V_1}{R_2}$$

$$V_2 \left(\frac{1}{R_2} + \frac{1}{R_3 + R_4} \right) = \frac{V_1}{R_2} + \frac{V_1}{R_3 + R_4}$$

$$3V_2 = \frac{-R_1 + R_2 + R_3 + R_4}{R_2}$$

$$V_2 = \frac{-R_1 + R_2 + R_3 + R_4}{3R_2}$$

scanf("%d %d", &r, &c);

printf("The voltage is: %d V", v);

scanf("%d %d %d %d", &r1, &c1, &r2, &c2);

$v_2 = ((-r_1 + (r_1 r_2) + (r_1^2 (r_2^2 r_1))) / 3 r_1);$

$v_3 = (v_2 / (r_2 + r_1) * r_1);$

$P = ((v_3) * (v_3) / r_1);$

printf("The voltage v3: %d V", v3);

printf("The Power = %d W", P);

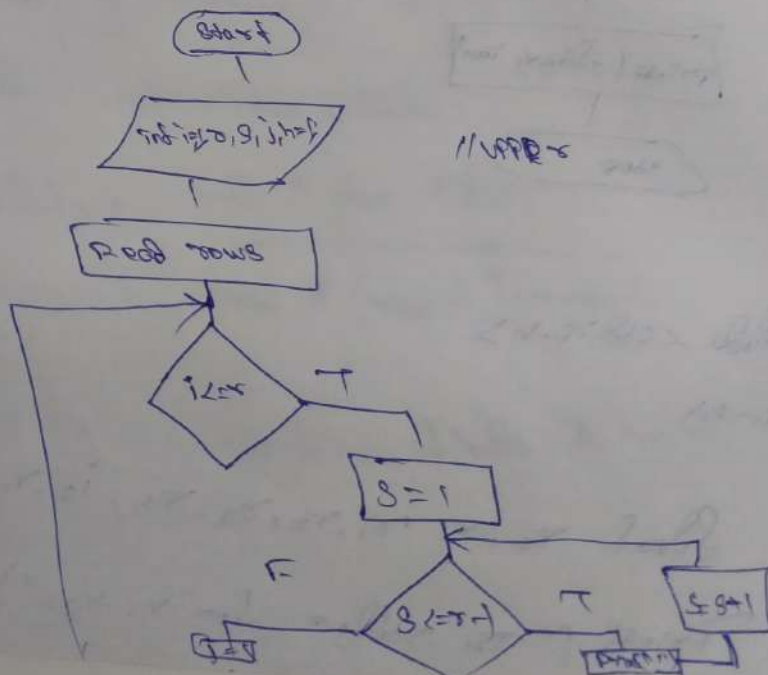
return 0;

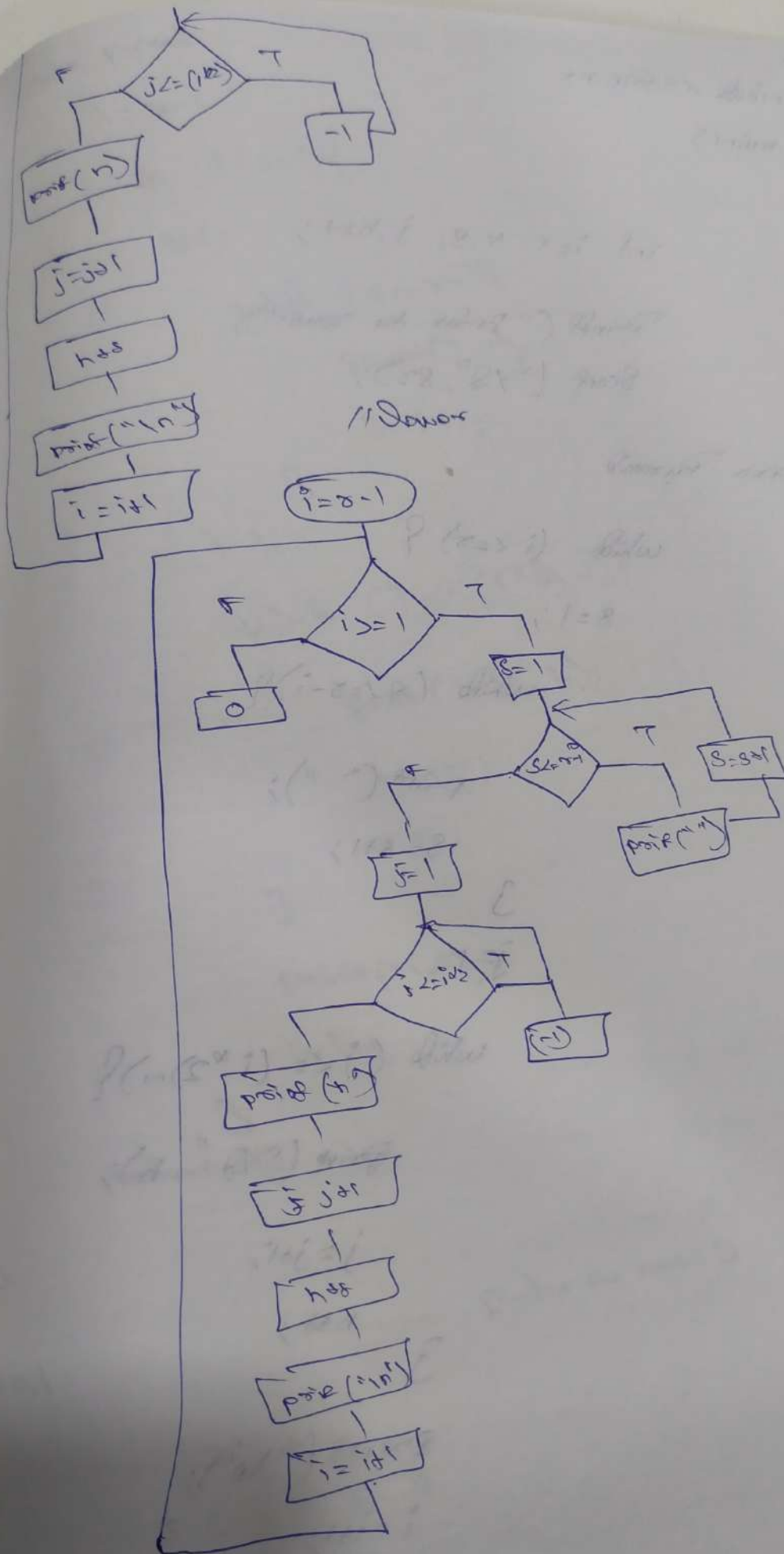
3

10

1
2 3 4
5 6 7 8 9
10 11 12
13

FLOWCHART:





```

code:
#include <stdio.h>
int main()
{

```

```

    int i=1, n=8, j, h=1;

```

```

    printf("Enter the rows:");

```

```

    scanf("%d", &n);

```

```

//upper Pyramid

```

```

    while (i <= n) {

```

```

        s=1;

```

```

        while (s <= n-i+1) {

```

```

            printf(" ");

```

```

            s = s+1;

```

```

        }

```

```

        j=1;

```

```

        while (j <= (i*2)-1) {

```

```

            printf("%d ", h);

```

```

            j = j+1;

```

```

            h++;

```

```

        }

```

```

        printf("\n");

```

```

        i = i+1;

```

```

    }

```

Reverse Pyramid

```
i = 8-1;
```

```
while (i >= 0)
```

```
    s = 1;
```

```
    while (s <= 8-i)
```

```
        printf("%d ", s);
```

```
        s = s + 1;
```

```
    }
```

```
    j = 1;
```

```
    while (j <= (8-i)*2-1)
```

```
        printf(" ", j);
```

```
        j = j + 1;
```

```
    }
```

```
    }
```

```
    printf("\n");
```

```
    i = i - 1;
```

```
    }
```

```
    return 0;
```

```
}
```

output:

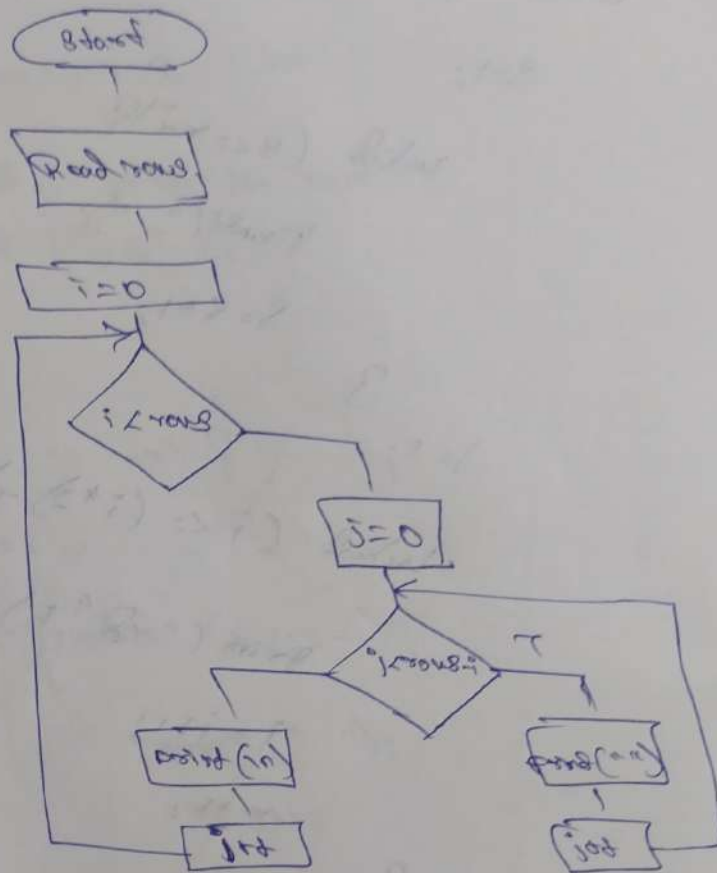
Enter the rows: 3

```

      1
     2 3 4
    5 6 7 8 9
   10 11 12
  13
  
```

11) Inverted right half pyramid pattern;

Flowchart:



code:

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
int row = 5;
```

```
for (int i = 0; i < row; i++)
```

```
{
```

```
{
```

```
printf("a");
```

```
}
```

```
printf("\n");
```

```
}
```

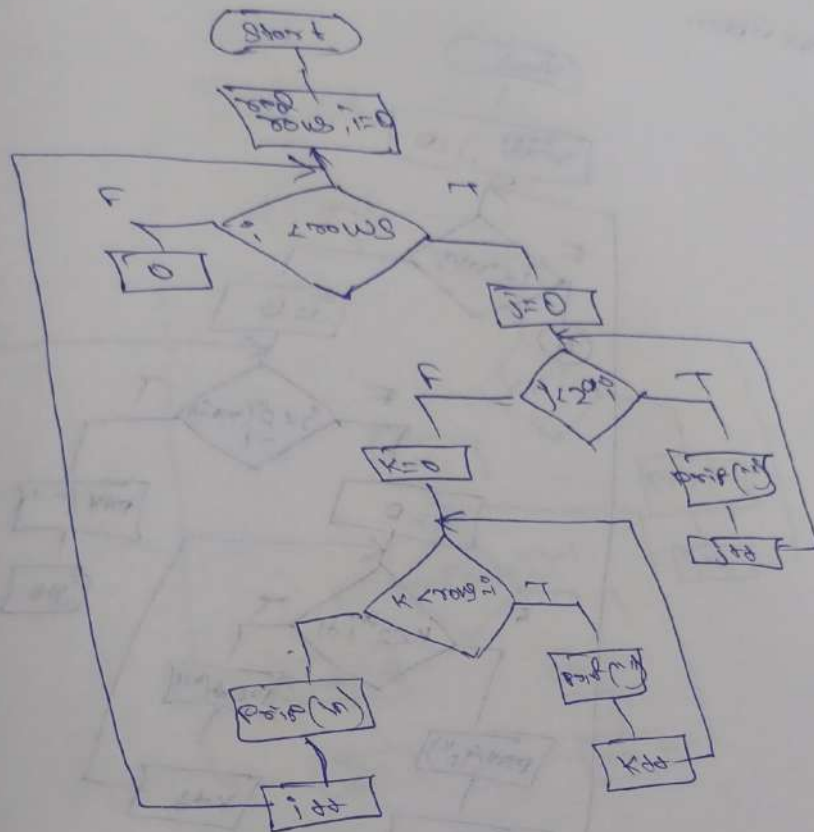
```
}
```

Output:

```
a a a a
a a a
a a
a
```


12) Inverted left half pyramid pattern:

Flowchart:



code:

```
#include <iostream.h>
```

```
int main()
```

```
{
```

```
    int rows = 5;
```

```
    for (int i = 0; i < rows; i++) {
```

```
        for (int j = 0; j < 2^i; j++) {
```

```
            print(" ");
```

```
        }
```

```
        for (int k = 0; k < rows - i; k++) {
```

```
            print("x");
```

```
        }
```

```
    }
```

```
    return 0;
```

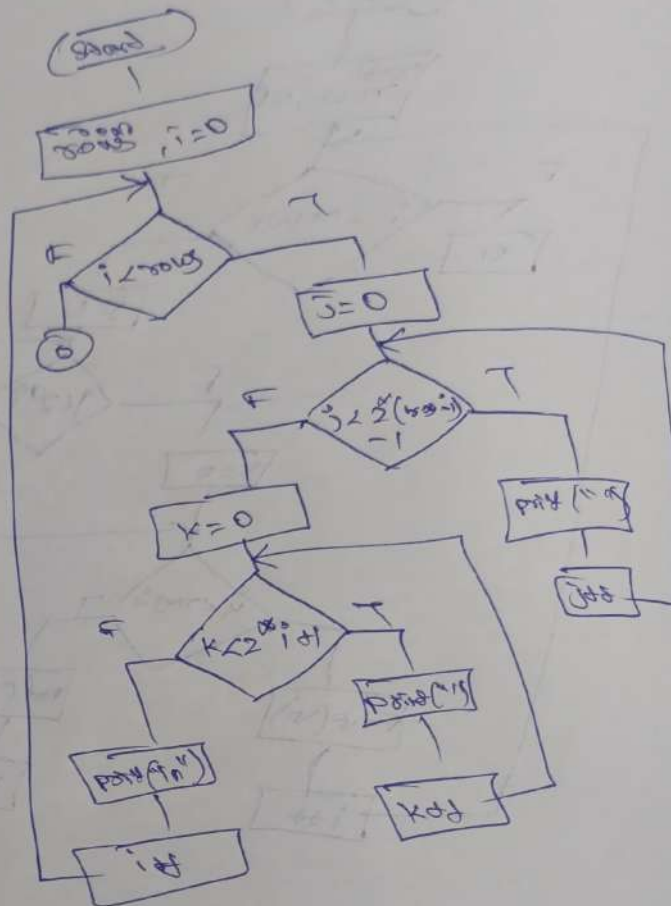
output:

```

x x x x
x x x
x x x
x x x
x x x
  
```

11) 13) Full Pyramid Pattern:

Flowchart:



code:

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
int
```

```
{
```

```
int rows = 5;
```

```
for (int i=0; i < rows; i++){
```

```
for (int j=0; j < 2*(rows-i)-1; j++){
```

```
printf(" ");
```

```
}
```

```
for (int k=0; k < 2*i+1; k++){
```

```
printf("* ");
```

```
}
```

```
}  
return 0;
```

```
printf("\n");
```

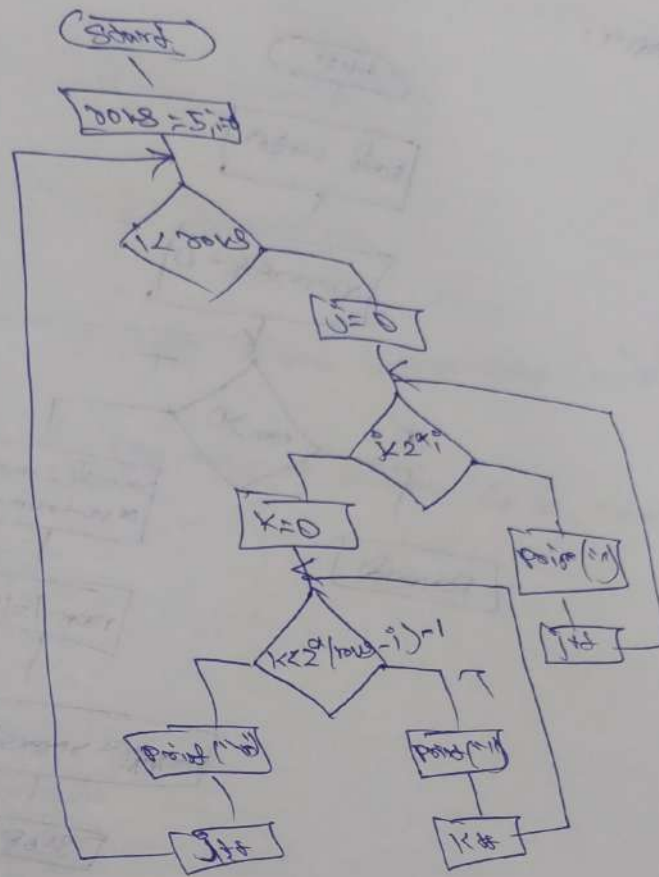
```

      *
     * *
    * * *
   * * * *
  * * * * *

```

⑦ Inverted Full Pyramid Pattern:

FLOW CHART:



code:
 #include <iostream.h>
 int main()
 {

```

    int rows = 5;
    for (int i = 0; i < rows; i++)
    {
        for (int j = 0; j < 2*i; j++)
            Print(" ");

        for (int k = 0; k < 2*(rows-i)-1; k++)
            Print("* ");

        Print("\n");
    }
  
```

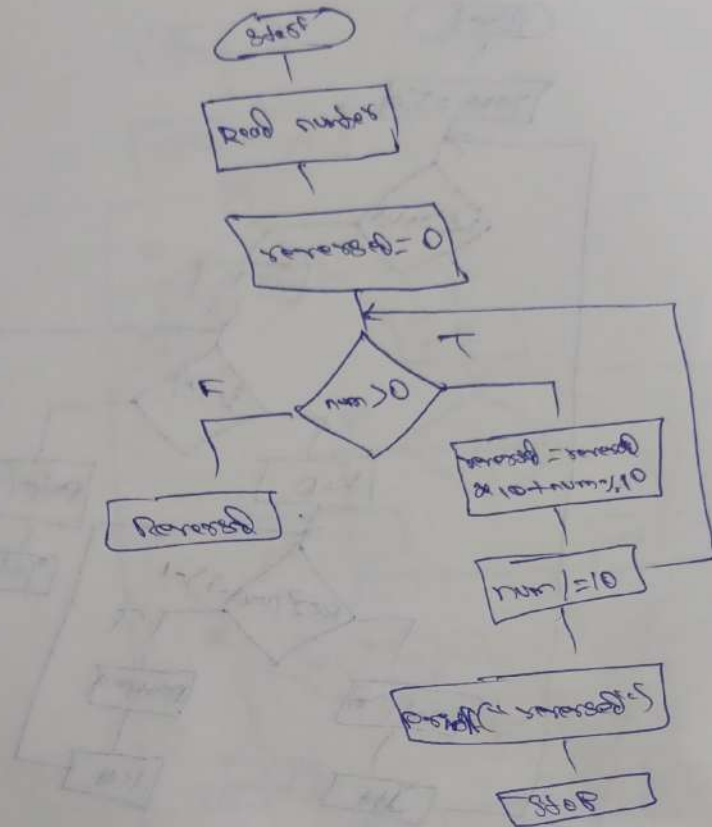
Output:

```

  * * * * *
 * * * *
* * *
 * *
  *
  
```

15) Reverse the number:

Flowchart:



code:

```
#include <stdio.h>
```

```
int reverseNumber (int num)
```

```
{
    int reversed = 0;
```

```
    while (num > 0)
```

```
    {
        reversed = reversed * 10 + num % 10;
```

```
        num /= 10;
```

```
    }
```

```
    return reversed;
```

```
}
```


int main() {

int number;

printf("Enter a number: ");

scanf("%d", &number);

int reversedNumber = 0;

printf("Reversed number: %d", reversedNumber);

return 0;

3

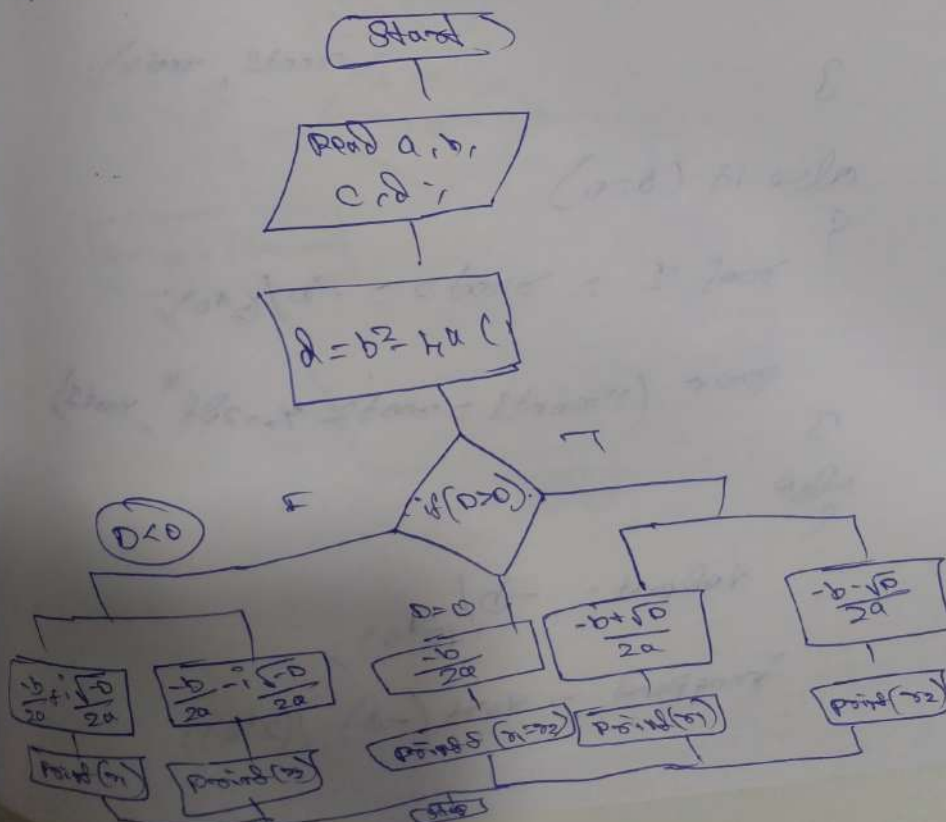
output:

⇒ 12345

⇒ 54321

⑩ Quadratic Equation:

Abuchand =



Code:

```
#include <stdio.h>
```

```
#include <math.h>
```

```
int main()
```

```
{
```

```
double a, b, c, d, root1, root2, realpart,  
imagpart;
```

```
printf("Enter the quadratic number: ");
```

```
scanf("%lf %lf %lf", &a, &b, &c);
```

```
d = (b*b) - 4*a*c;
```

```
if(d > 0)
```

```
{
```

```
root1 = (-b + sqrt(d)) / (2*a);
```

```
root2 = (-b - sqrt(d)) / (2*a);
```

```
printf("root1 = %lf and root2 = %lf",
```

```
root1, root2);
```

```
}
```

```
else if (d == 0)
```

```
{
```

```
root1 = root2 = -b / (2*a);
```

```
printf("root1 = root2 = %lf", root1)
```

```
}
```

```
else
```

```
realpart = -b / (2*a);
```

```
imagpart = sqrt(-d) / (2*a);
```

$\text{root1} = 1.588 \rightarrow 1.588$; $\text{root2} = 1.588$
 -1.588

$\text{root1}, \text{root2}, \text{root3}, \text{root4};$

3

return 0;

→ gcc source.c -lm

3

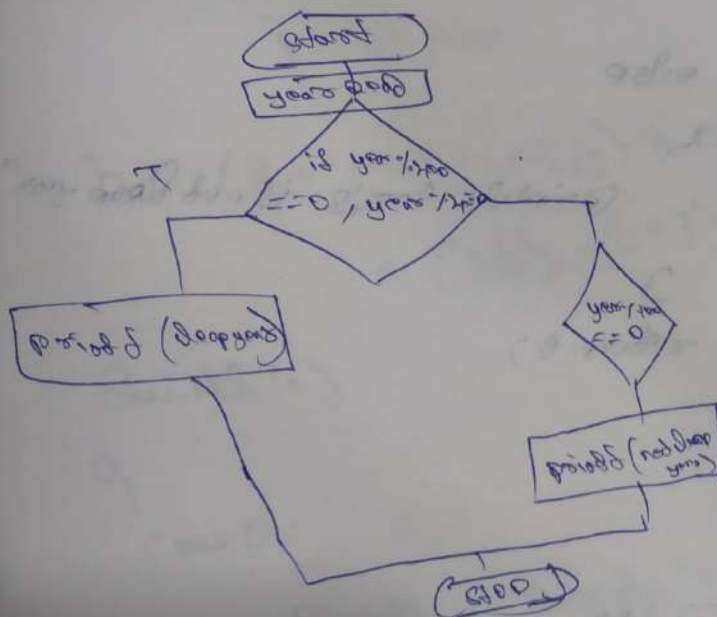
output:

$a=3, b=3, c=2$

$\text{root1} = 0.5 \pm 0.00i$; $\text{root2} = -0.5 \pm 0.00i$

15 Leap year or not:

Flowchart:



code:

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int year;
```

```
    printf("Enter the year");
```

```
    scanf("%d", &year);
```

```
    if (year % 100 == 0)
```

```
        printf("This is leap year");
```

```
    else if (year % 100 != 0)
```

```
        printf("This is not leap year");
```

```
    else if (year % 4 == 0)
```

```
        printf("This is leap year");
```

```
    else
```

```
{
```

```
        printf("This is not leap year");
```

```
}
```

```
    return 0;
```

```
}
```

Output:

year = 100

This is not leap year

12) Find day from the date, month, year?

~~Algorithm:~~

int include <stdio.h>
int include <math.h>
int main()

{

int d, m, y, i, k;

printf ("Enter the date month year\n");

scanf ("%d %d %d", &d, &m, &y);

if (m < 3)

{

m += 12;

y--;

}

k = y % 100;

j = y / 100;

h = (d + (13 * (m + 1) / 5) + (k) + (k / 4)
+ (j / 4) - (2 * j)) % 7;

switch (h)

{

case 0:

printf ("Sunday\n");

break;

case 1:

printf ("Sunday\n");

break;

100.

Case 2:

#.

n.

3

printf ("monday\n");

break;

Case 3:

printf ("tuesday\n");

break;

Case 4:

printf ("wednesday\n");

break;

Case 5:

printf ("thursday\n");

break;

Case 6:

printf ("friday\n");

break;

3

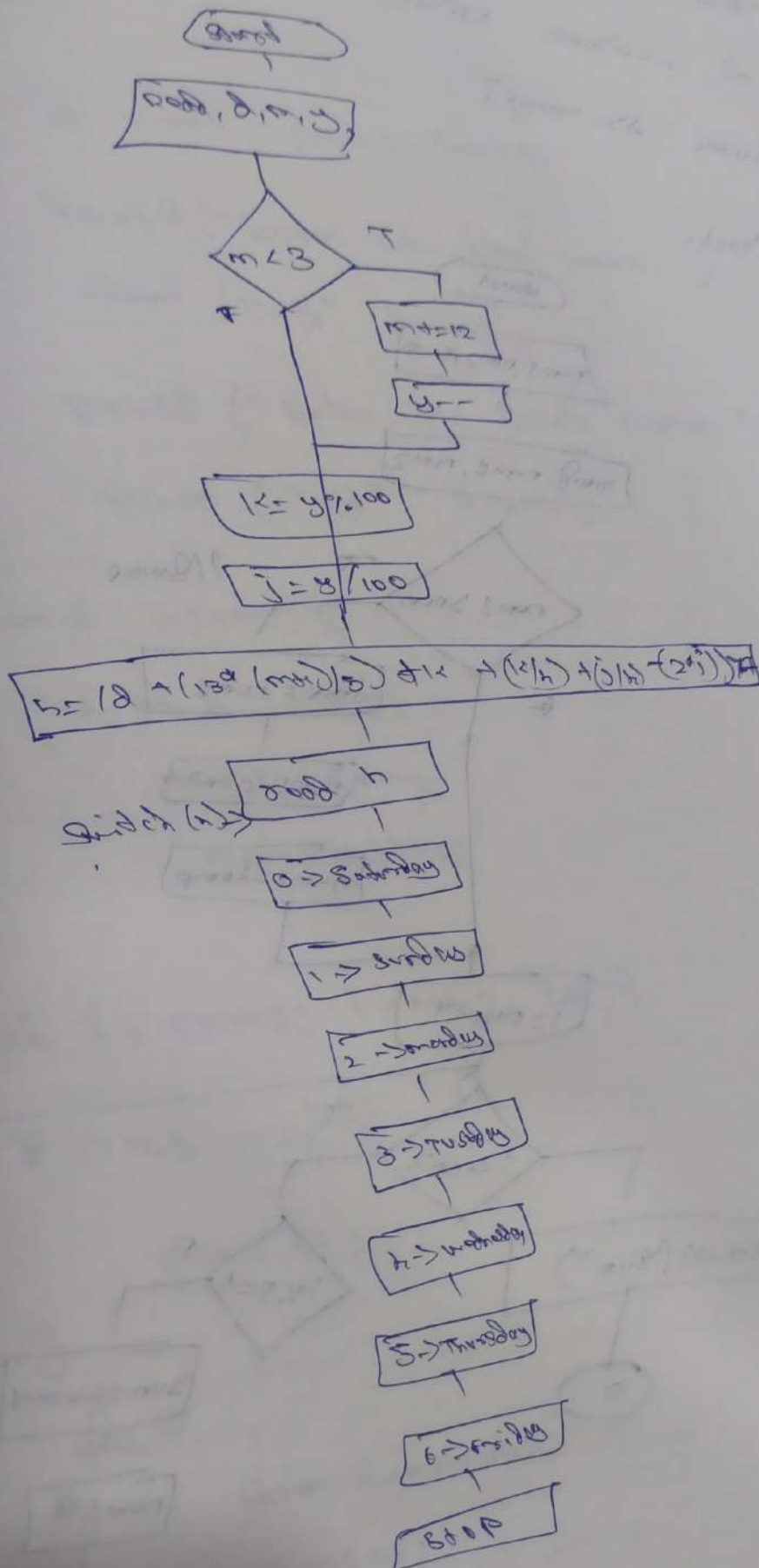
return 0;

3

output:

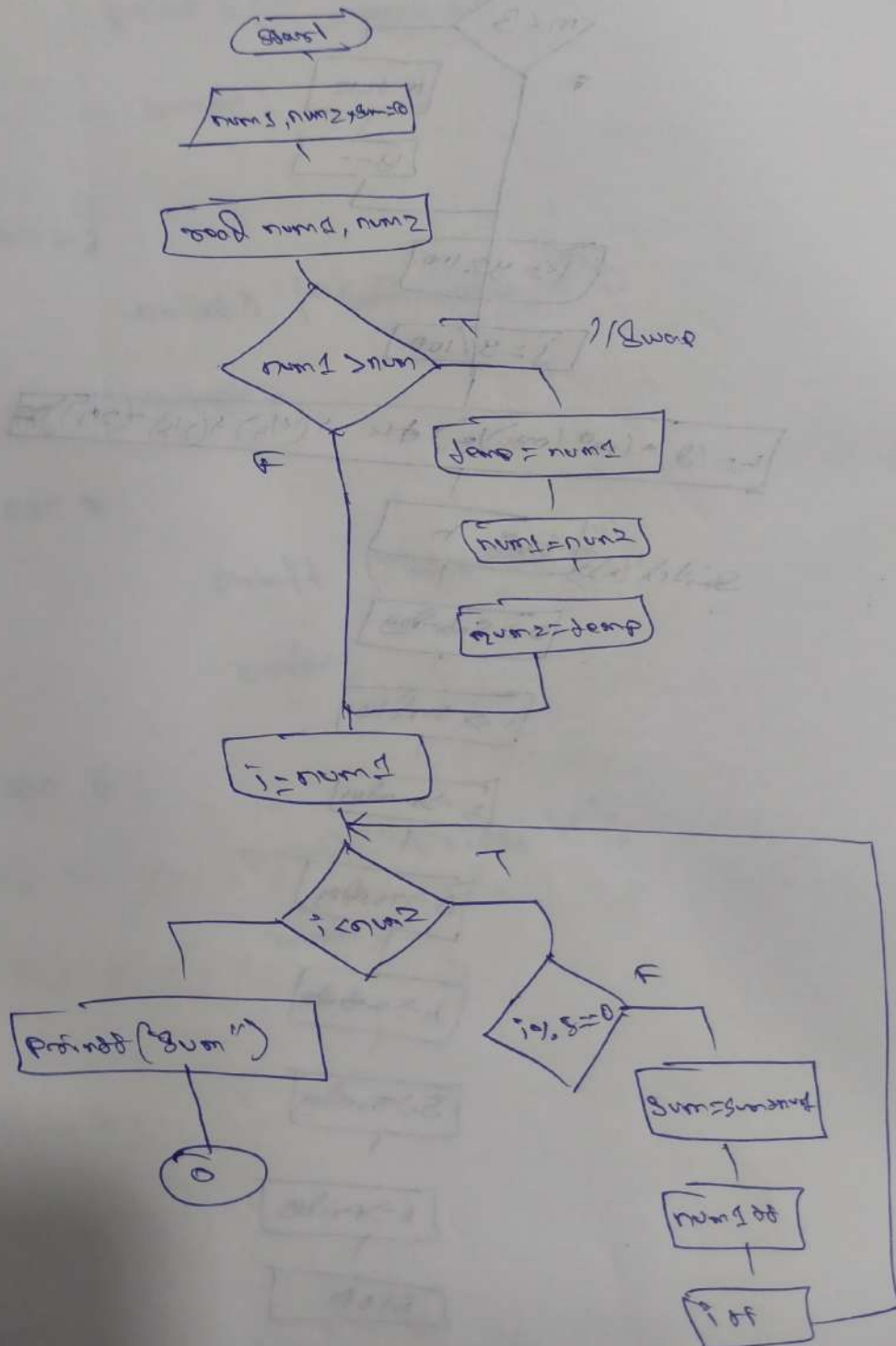
→ 26/11/2009

→ Friday



1d) Take two numbers from user & find all sum of numbers which are not divisible by 5 between the range?

Flowchart:



```

// code:
#include <stdio.h>
int main()
{

```

```

    int num1, num2, sum=0;

```

```

    printf("Enter the first number: ");

```

```

    scanf("%d", &num1);

```

```

    printf("Enter the second number: ");

```

```

    scanf("%d", &num2);

```

```

    if (num1 > num2)
    {

```

```

        int temp = num1;

```

```

        num1 = num2;

```

```

        num2 = temp;
    }

```

```

}

```

```

for (int i = num1; i < num2; i++)
{

```

```

    if (i % 5 == 0)
    {

```

```

        num1++;
    }

```

```

}

```

```

else
{

```

```

    sum = sum + num1;

```

```

    num1++;
}

```

```

}

```

```

}

```

```

printf("Sum of numbers between %d and %d",

```

```

      (num1, num2));

```

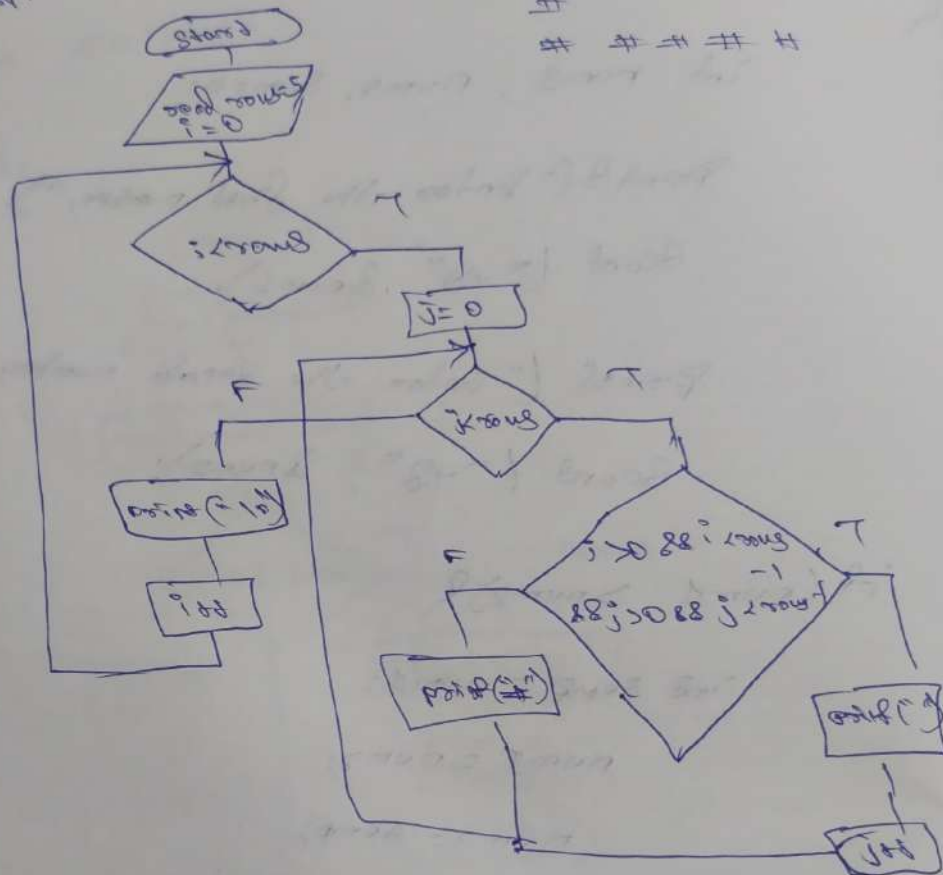
```

return 0;
}

```

20) Hollow Square:

Flowchart:



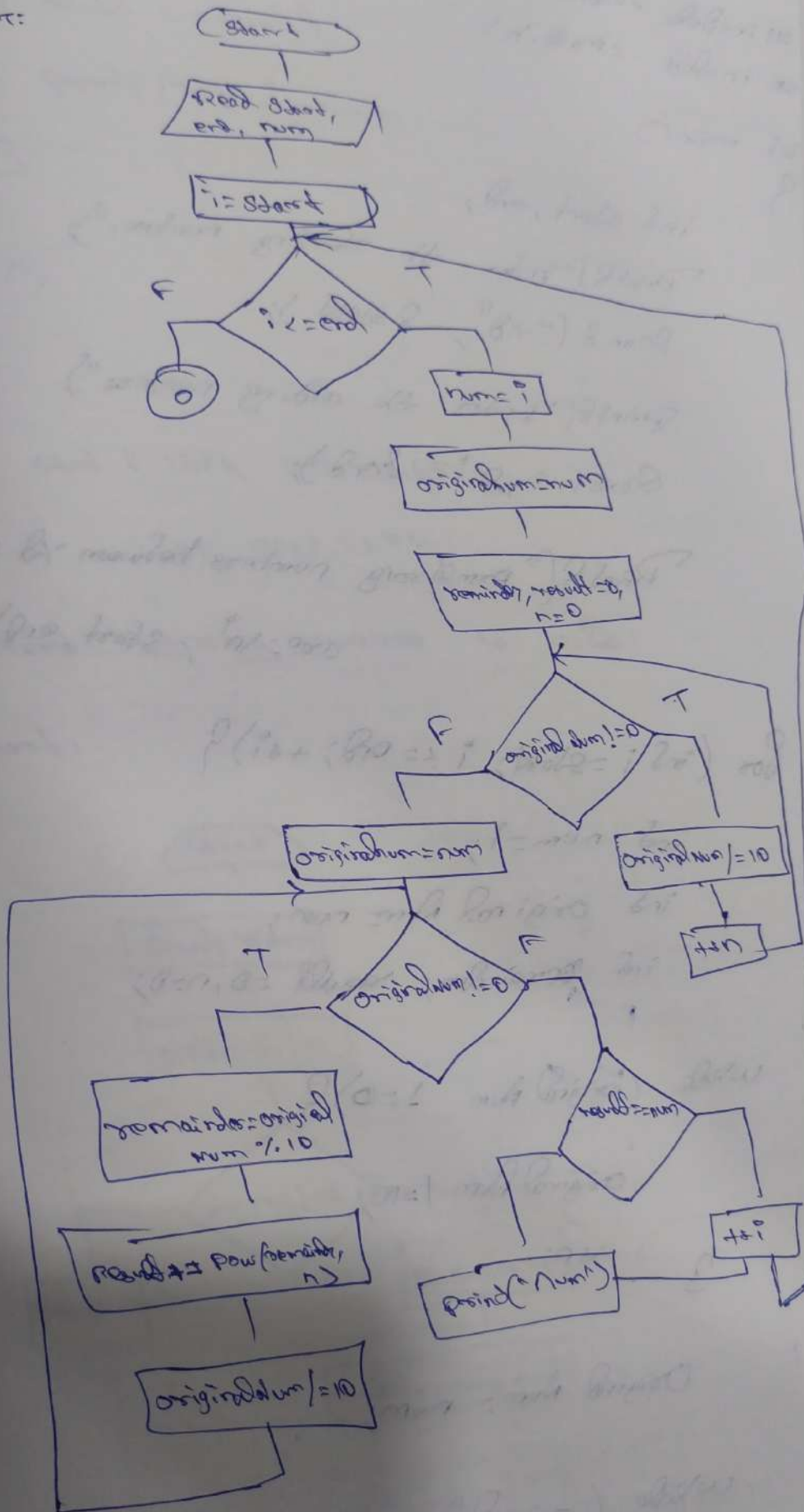
code:
#include <iostream>
using namespace std;

```

int rows = 5;
for (int i = 0; i < rows; i++)
    for (int j = 0; j < rows; j++)
        if (i > 0 && i < rows - 1 && j > 0 && j < rows - 1)
            cout << " ";
        else
            cout << "*" << endl;
  
```


Q. Find Armstrong numbers between two intervals. (user input)

FLOWCHART:




```

code:
#include <stdio.h>
#include <math.h>

int main()
{
    int start, end;
    printf("Enter the starting number:");
    scanf("%d", &start);
    printf("Enter the ending number:");
    scanf("%d", &end);

    printf("Armstrong numbers between %d and %d\n", start, end);

```

```

for (int i = start; i <= end; ++i) {
    int num = i;
    int original num = num;
    int remainder, result = 0, n = 0;

```

```

    while (original num != 0) {
        original num /= 10;
        ++n;
    }

```

```

    original num = num;

```

```

    while (original num != 0) {

```

```

        remainder = original num % 10;
        result += pow(remainder, n);
    }

```

```

3
if result == num {
    printf("%d\n", num);
}

```

```

3
return 0;

```

```

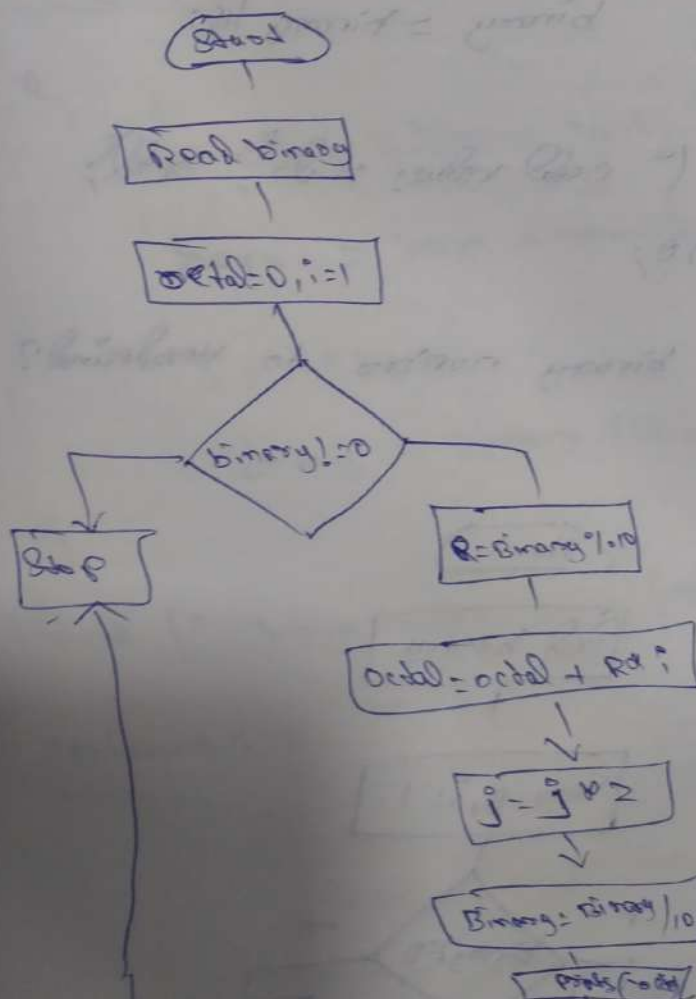
3
int:
    start = 133h    end = 465h

```

163h, 226h, 947h

22) Convert binary numbers to octal:

Flowchart:



code:

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    long int binary, octal = 0, j = 1, remainder;
```

```
    printf("Enter the value for binary number: ");
```

```
    scanf("%ld", &binary);
```

```
    while (binary != 0)
```

```
{
```

```
        remainder = binary % 10;
```

```
        octal = octal + remainder * j;
```

```
        j = j * 2;
```

```
        binary = binary / 10;
```

```
}
```

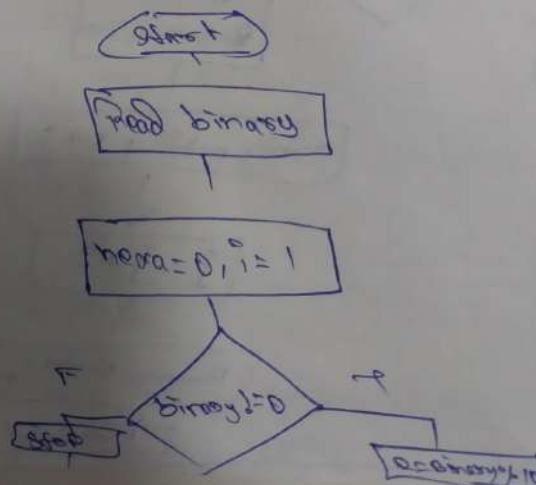
```
    printf("octal value: %ld", octal);
```

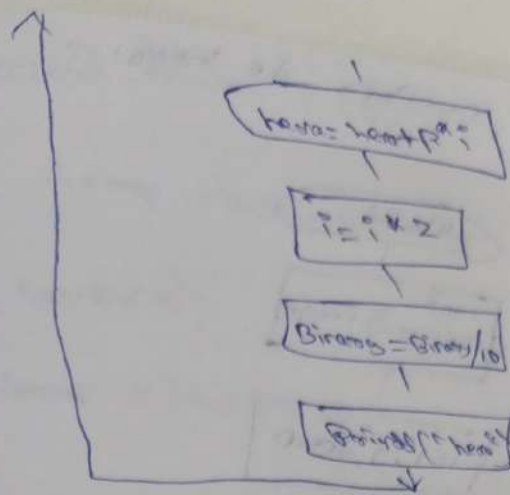
```
    return 0;
```

```
}
```

② Convert binary number to hexadecimal?

Flowchart:





code:

```
#include <stdio.h>
```

```
int main()
```

{

```
    long int binary, hexa = 0, i = 1, remainder;
```

```
    printf("\nEnter the value for binary number: ");
```

```
    scanf("%ld", &binary);
```

```
    while (binary != 0)
```

{

```
        remainder = binary % 10;
```

```
        hexa = hexa + remainder * i;
```

```
        i = i * 2;
```

```
        binary = binary / 10;
```

}

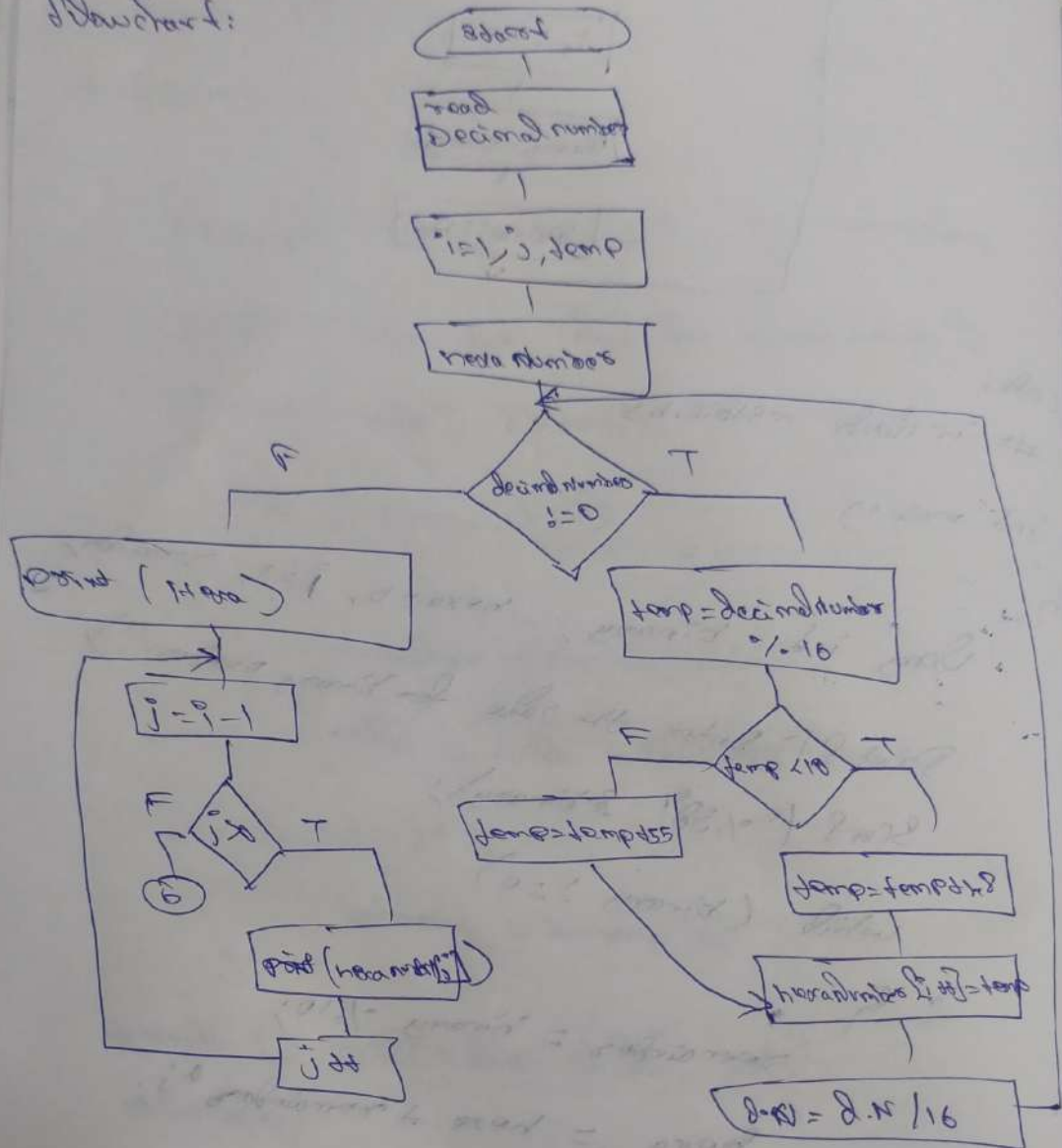
```
    printf("\nHexa value: %ld", hexa);
```

```
    return 0;
```

}

2) convert decimal numbers to hexa:

Flowchart:



code:

```

#include <stdio.h>
int main()
{
    int decimal_number;
    printf("Enter the decimal number: ");
    scanf("%d", &decimal_number);
    int i = 1, j, temp;
    char hexa_number[100];

```



```

while (decimal_number != 0) {
    temp = decimal_number % 16;

    if (temp < 10)
        temp = temp + 48;
    else
        temp = temp + 55;

    hexa_number[i++] = temp;
    decimal_number = decimal_number / 16;
}

printf("Hexadecimal value is:");

for (j = i - 1; j > 0; j--)
    printf("%c", hexa_number[j]);

return 0;
}

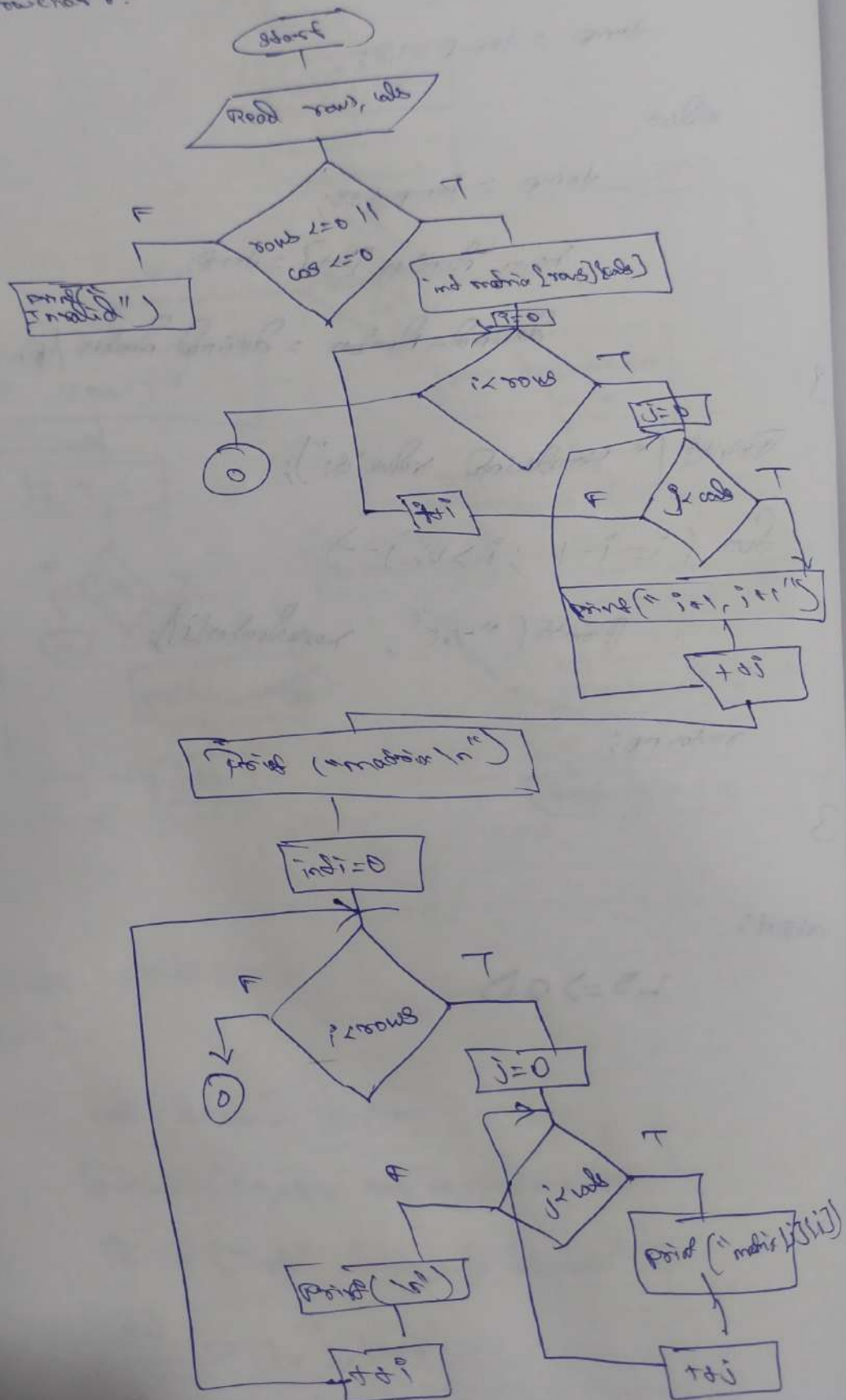
```

output:

LS \Rightarrow 2D

25) Take matrix elements from the User and display the matrix?

Flowchart:



code:

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int rows, cols;
```

```
    printf("Enter the number of rows:");
```

```
    scanf("%d", &rows);
```

```
    printf("Enter the number of columns:");
```

```
    scanf("%d", &cols);
```

```
    if (rows <= 0 || cols <= 0)
```

```
    {
```

```
        printf("Invalid dimensions");
```

```
        return 1;
```

```
    }
```

```
    printf("Enter matrix elements:");
```

```
    for (int i = 0; i < rows; ++i)
```

```
    {
```

```
        for (int j = 0; j < cols; ++j)
```

```
        {
```

```
            printf("Enter element at position (%d, %d):",
```

```
                    i+1, j+1);
```

```
            scanf("%d", &matrix[i][j]);
```

```
        }
```

11 Display the matrix

```
printf("matrix : \n");
for (int i=0; i<rows; i++)
    for (int j=0; j<cols; j++)
        printf("%d\t", matrix[i][j]);
```

```
    }
    printf("\n");
```

```
    }
    return 0;
```

}

output:

```

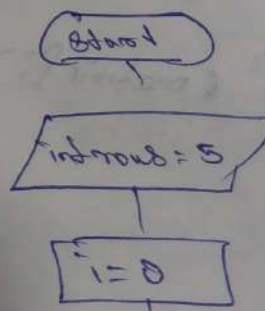
1 2
3 4 | 1 2
      | 3 4
```

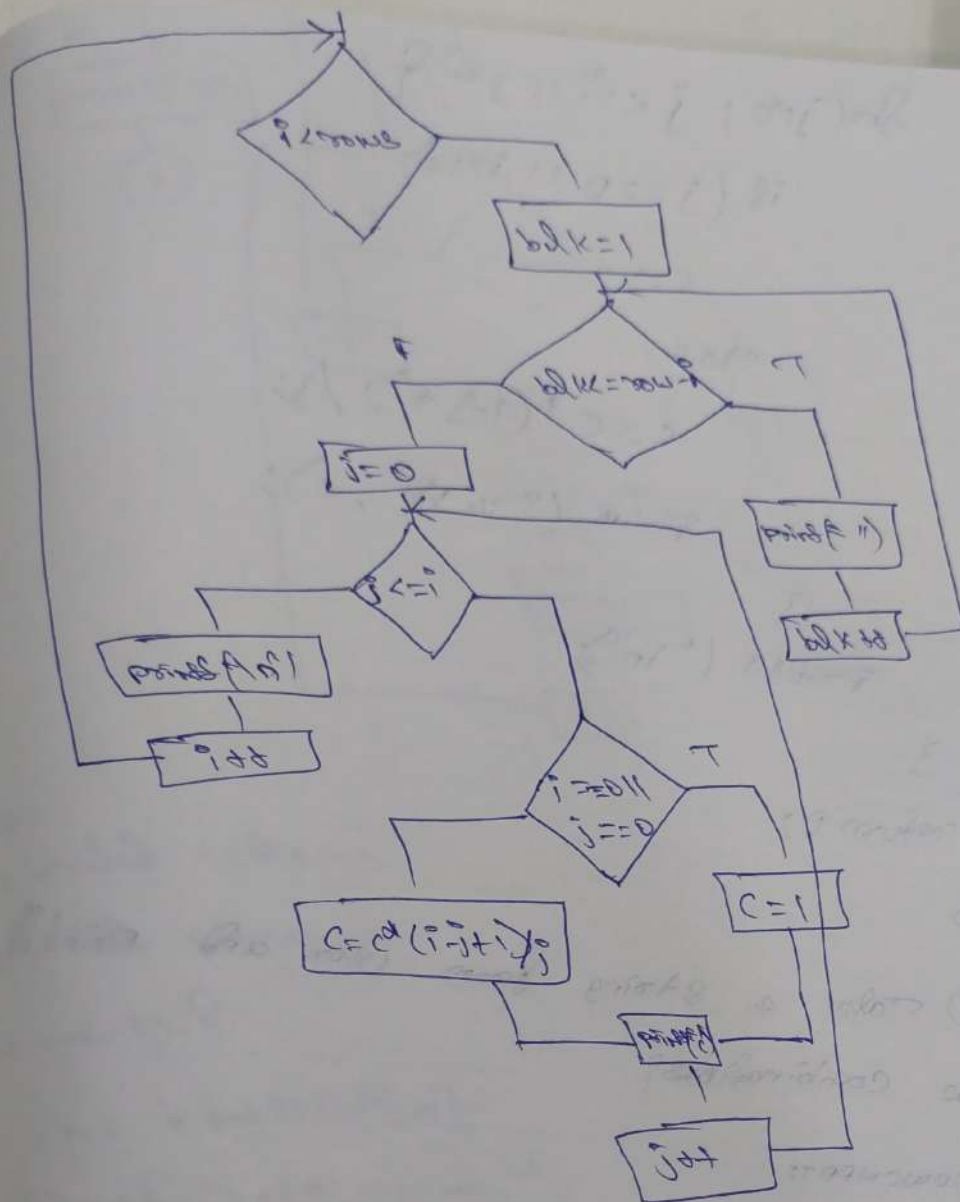
26 Pascal's triangle:

```

      1
     1 2
    1 2 3
   1 3 6 3
  1 6 15 10 1
```

Flowchart:





code:

```
#include <stdio.h>
```

```
int main()
```

```
{ int row, c = 1, blk, i, j;
```

```
printf("Input number of rows: ");
```

```
scanf("%d", &row);
```

```
for(i = 0; i < row; i++)
```

```
{ for(blk = 1; blk <= row - i; blk++)
```

```
printf(" ");
```



```

for (j=0; j<=i; j++) {
    if (j==0 || i==0)
        c=1;
    else
        c = c * (i-j+1) / j;
    printf("%d ", c);
}

```

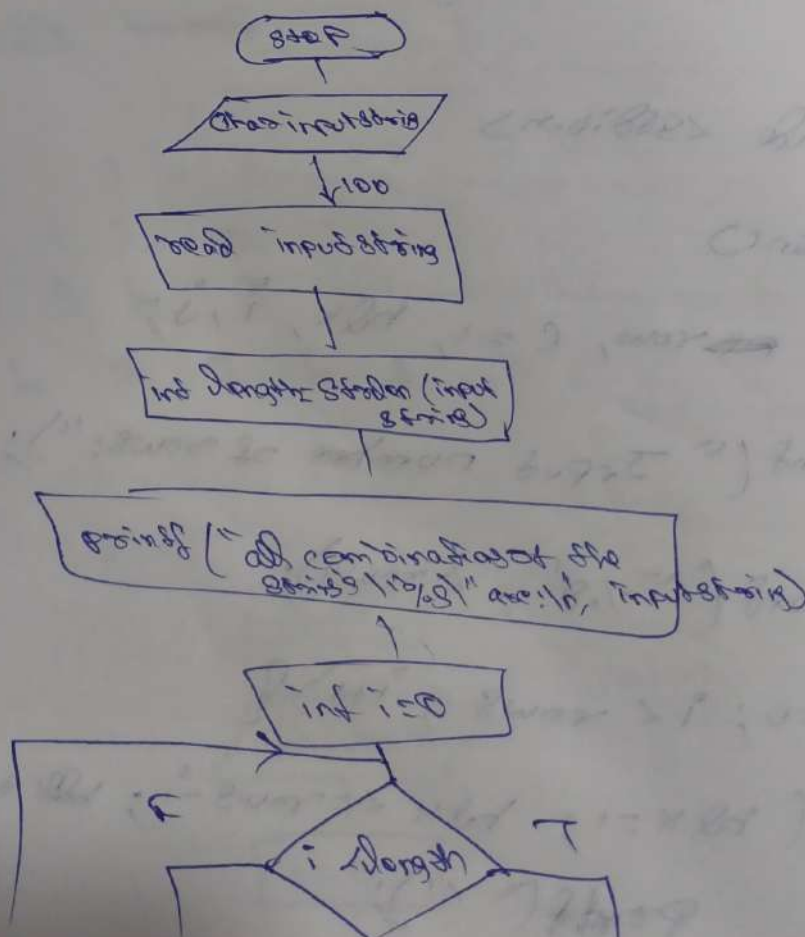
3
printf("\n");

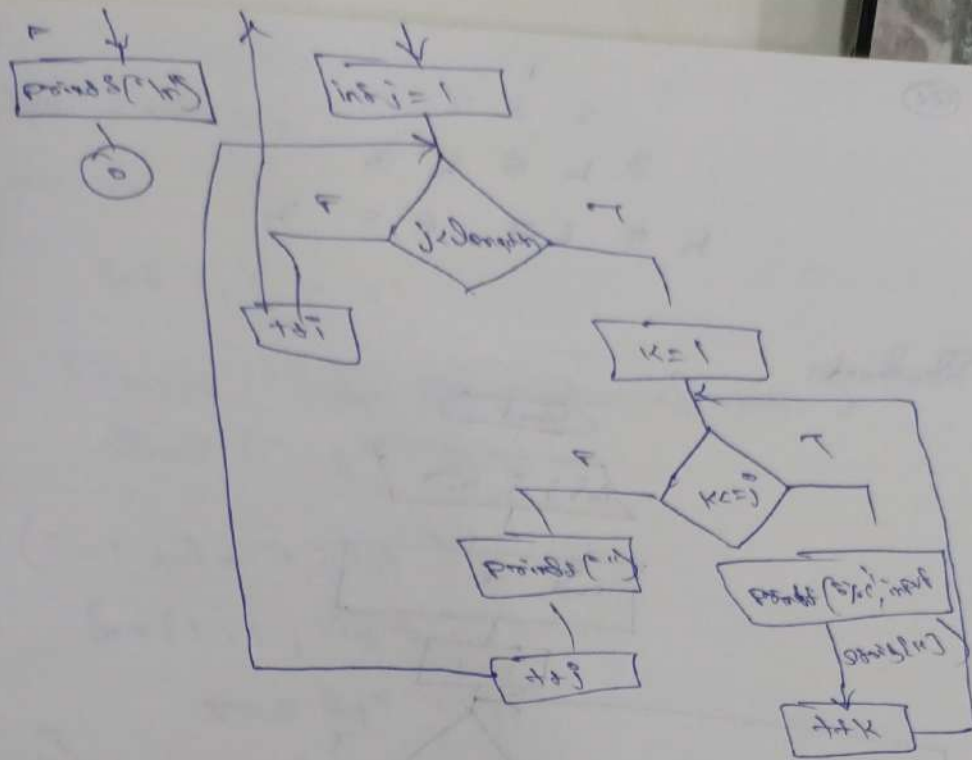
3
return 0;

3

(27) Take a string from user and print all combinations?

FLOWCHART:





code:

```
#include <stdio.h>
```

```
#include <string.h>
```

```
int main()
```

```
{
    char inputString[100];
```

```
    printf("Enter a string:");
```

```
    scanf("%s", inputString);
```

```
    int length = strlen(inputString);
```

```
    printf("All combinations of str string \"%s\" are\n", inputString);
```

```
    for (int i = 0; i < length; ++i)
```

```
    {
        for (int j = i; j < length; ++j)
```

```
        {
            for (int k = i; k <= j; ++k)
```

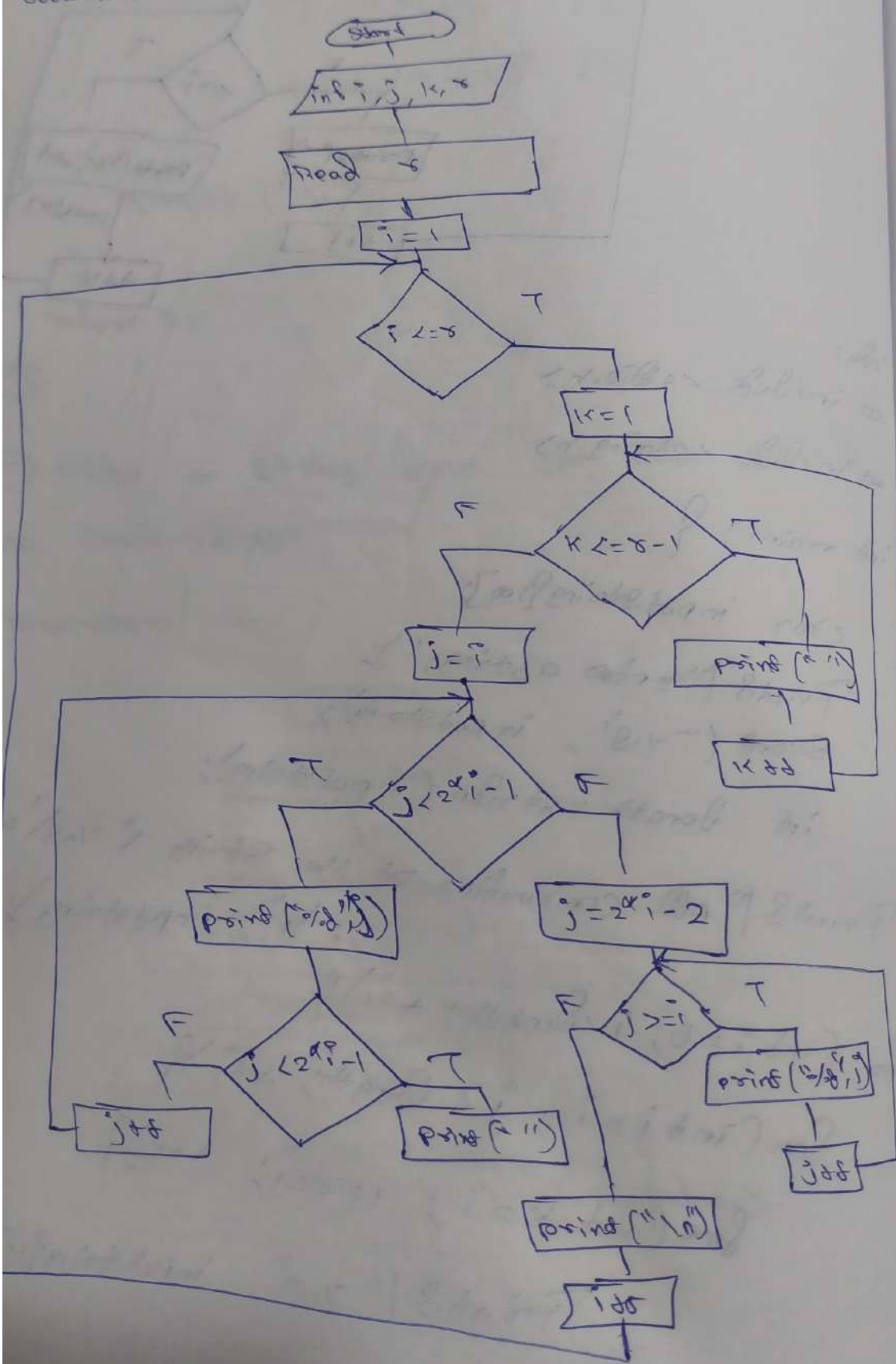
```
            {
                printf("%c", inputString[k]);
```

```
            }
        }
    }
    printf("\n");
}
```

(2)

1 2 3 2
3 4 5 4 3
4 5 6 7 6 5 4

Standard:



```
code:
#include <stdio.h>
```

```
int main()
```

```
{
    int i, j, k, r;
```

```
    printf("Enter the number of rows: ");
```

```
    scanf("%d", &r);
```

```
    for (i = 1; i <= r; i++)
```

```
    {
        for (k = 1; k <= r - i; k++)
```

```
            printf(" ");
```

```
    }
```

```
    for (j = 1; j <= 2 * i - 1; j++)
```

```
        printf("%d", j);
```

```
        if (j < 2 * i - 1)
```

```
            printf(" ");
```

```
    }
```

```
    for (j = 2 * i - 2; j >= 1; j--)
```

```
        printf("%d", j);
```

```
    }
```

```
    printf("\n");
```

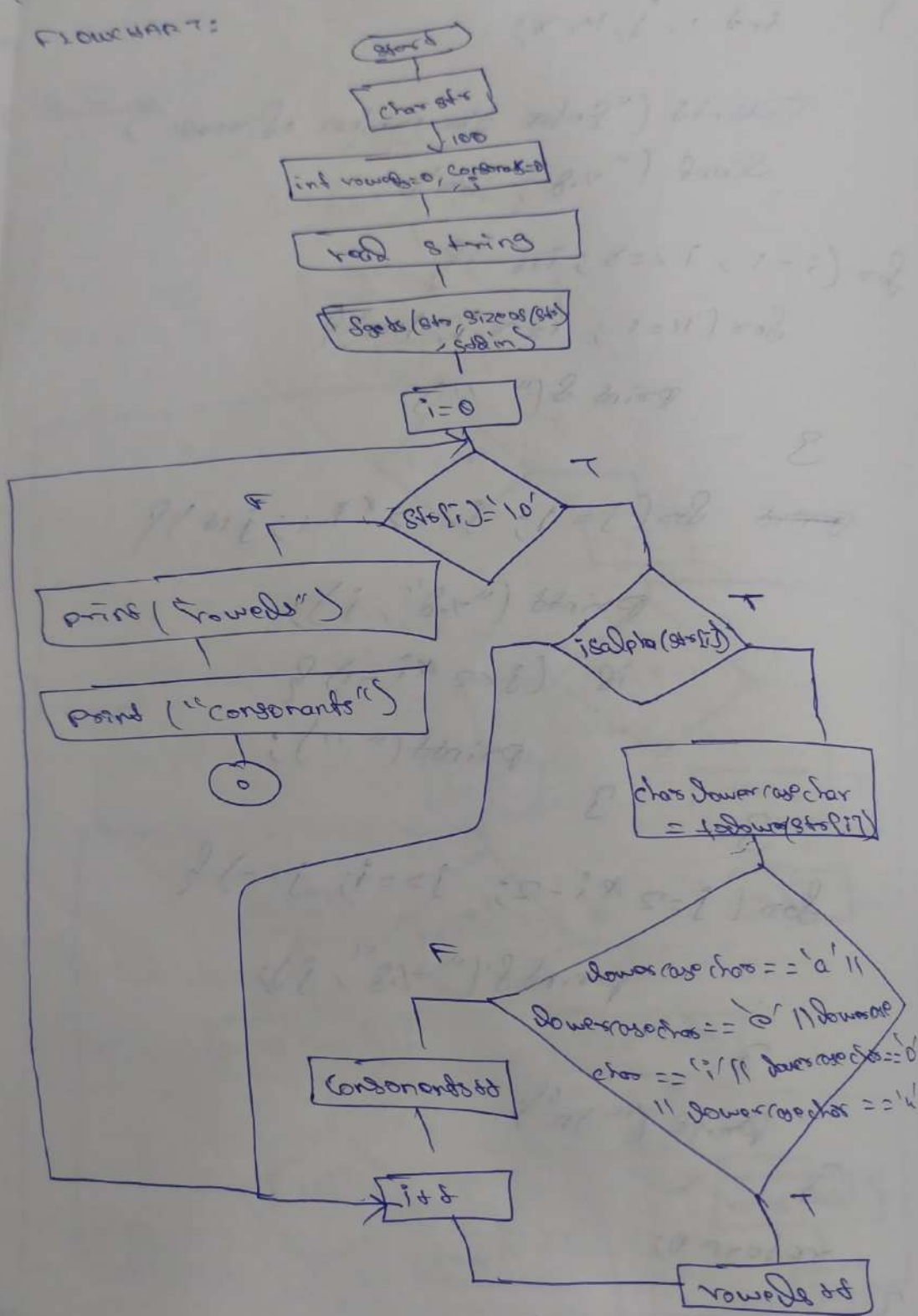
```
}
```

```
return 0;
```

```
}
```


1) (29) Find no. of vowels and consonants in a string

Flowchart:




```

#include <stdio.h>
#include <ctype.h>

int main()
{
    char str[100];
    int vowels = 0, consonants = 0, i;

    printf("Enter a string");
    gets(str, sizeof(str), stdin);

    for (i = 0; str[i] != '\0'; i++)
    {
        if (isalpha(str[i]))
        {
            char lowercaseChar = tolower(str[i]);

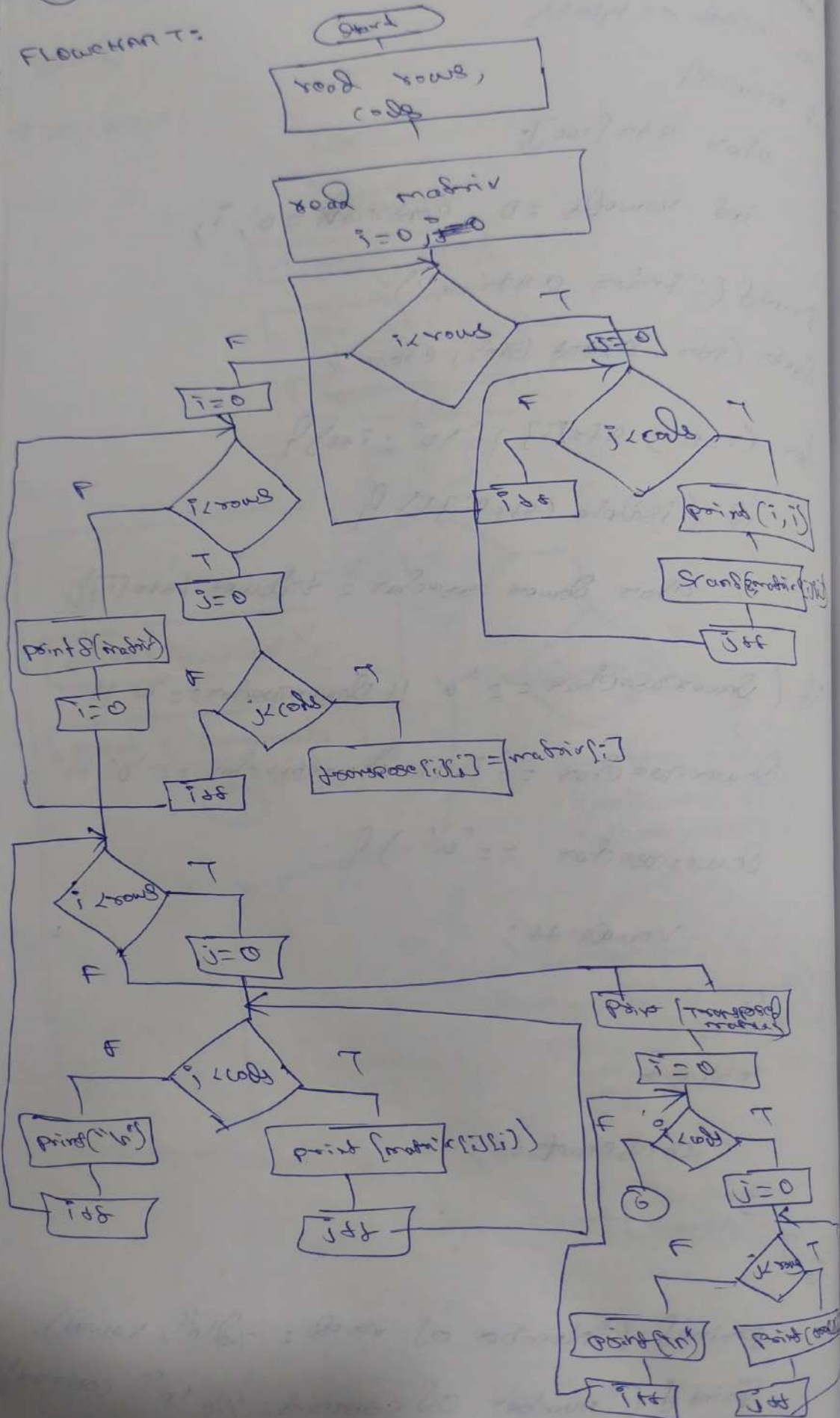
            if (lowercaseChar == 'a' || lowercaseChar == 'e' ||
                lowercaseChar == 'i' || lowercaseChar == 'o' ||
                lowercaseChar == 'u')
            {
                vowels++;
            }
            else
            {
                consonants++;
            }
        }
    }

    printf("Number of vowels: %d\n", vowels);
    printf("Number of consonants: %d\n", consonants);
    return 0;
}

```

30) Transpose a matrix?

Flowchart:



code:

```
#include <stdio.h>
```

```
#define max-size 10
```

```
int main() {
```

```
    int matrix[max-size][max-size], transpose[max-size][max-size];
```

```
    int rows, cols, i, j;
```

```
    printf("Enter the number of rows: ");
```

```
    scanf("%d", &rows);
```

```
    printf("Enter the number of columns: ");
```

```
    scanf("%d", &cols);
```

```
    printf("Enter the elements of the matrix: ");
```

```
    for (i=0; i < rows; i++) {
```

```
        for (j=0; j < cols; j++) {
```

```
            printf("Enter element of matrix [%d][%d]: ", i, j);
```

```
            scanf("%d", &matrix[i][j]);
```

```
        } }
```

```
    for (i=0; i < rows; i++) {
```

```
        for (j=0; j < cols; j++) {
```

```
            transpose[j][i] = matrix[i][j];
```

```
        } }
```



```

1) Print ("Original matrix: \n");
for (i=0; i < rows; i++) {
    for (j=0; j < cols; j++) {
        printf("%d\t", matrix[i][j]);
    }
    Print("\n");
}

```

```

3
Print ("Transposed matrix: \n");
for (i=0; i < cols; i++) {
    for (j=0; j < rows; j++) {
        printf("%d\t", transpose[i][j]);
    }
}

```

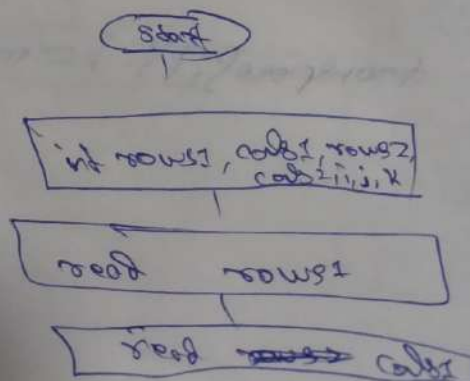
```

Print("\n");
return 0;
}

```

② multiplication of matrix:

Flow chart:




```

#include <stdio.h>
#define max_size 10
int main() {
    int matrix 1 [max_size][max_size], matrix 2 [max_size][max_size];

```

```

    printf ("Enter the rows 1: ");
    scanf ("%d", &rows1);

```

```

    printf ("Enter the column 1: ");
    scanf ("%d", &cols1);

```

```

    printf ("The Enter element first matrix: ");

```

```

    for (i=0; i<rows1; i++) {

```

```

        for (j=0; j<cols1; j++) {

```

```

            printf ("Enter elements of matrix [i][j]: ");
            scanf ("%d", &matrix 1 [i][j]);
        }
    }

```

```

    printf ("Enter the number of rows for 2nd matrix: ");
    scanf ("%d", &rows2);

```

```

    printf ("Enter the number of columns for the 2nd matrix: ");

```

```

    scanf ("%d", &cols2);

```

Prints("Enter the second matrix : (n^2);

for (i=0; i < rows2; i++) {

for (j=0; j < cols2; j++) {

Prints("Enter element at matrix[", i, "][", j, "];

scanf("%d", &matrix2[i][j]);

}
}

if (cols2 != rows2) {

Prints("Matrix multiplication is not possible");

return 1;

}

for (i=0; i < rows1; i++) {

for (j=0; j < cols2; j++) {

for (k=0; k < cols1; k++) {

result[i][j] += matrix1[i][k] * matrix2[k][j];

}

}
}