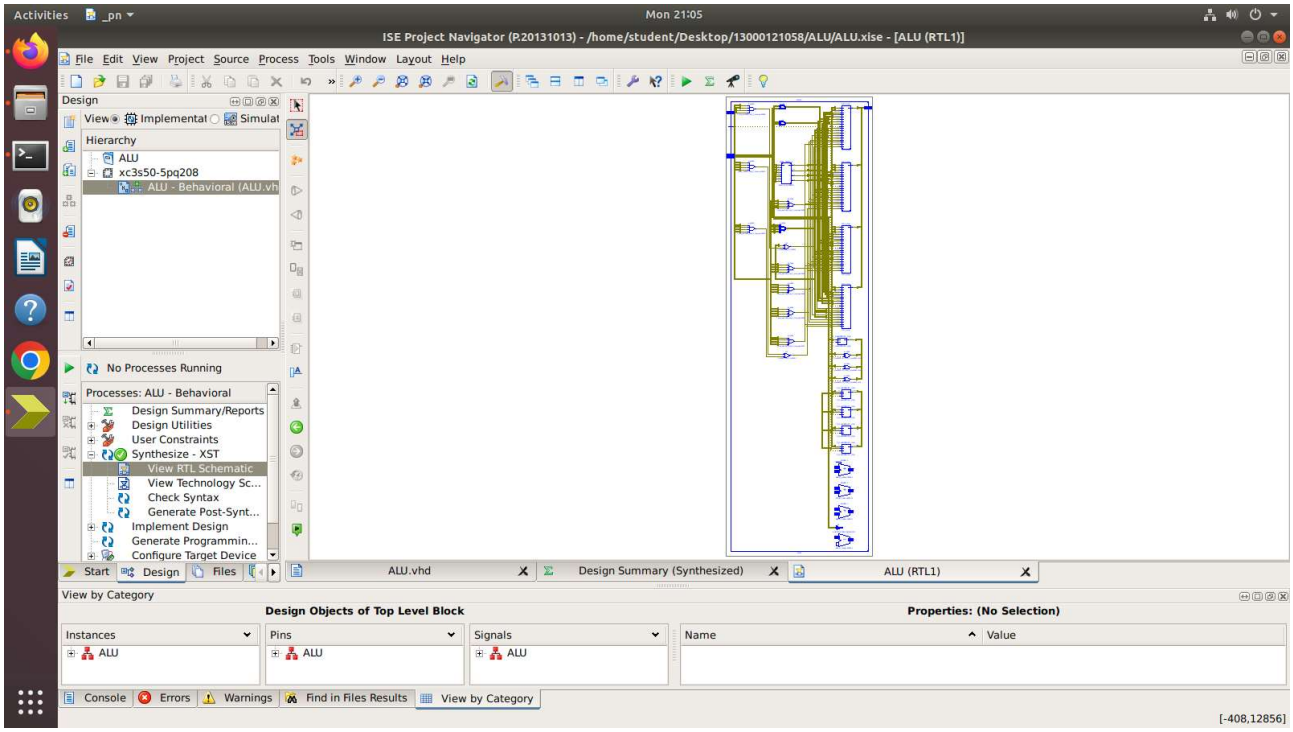
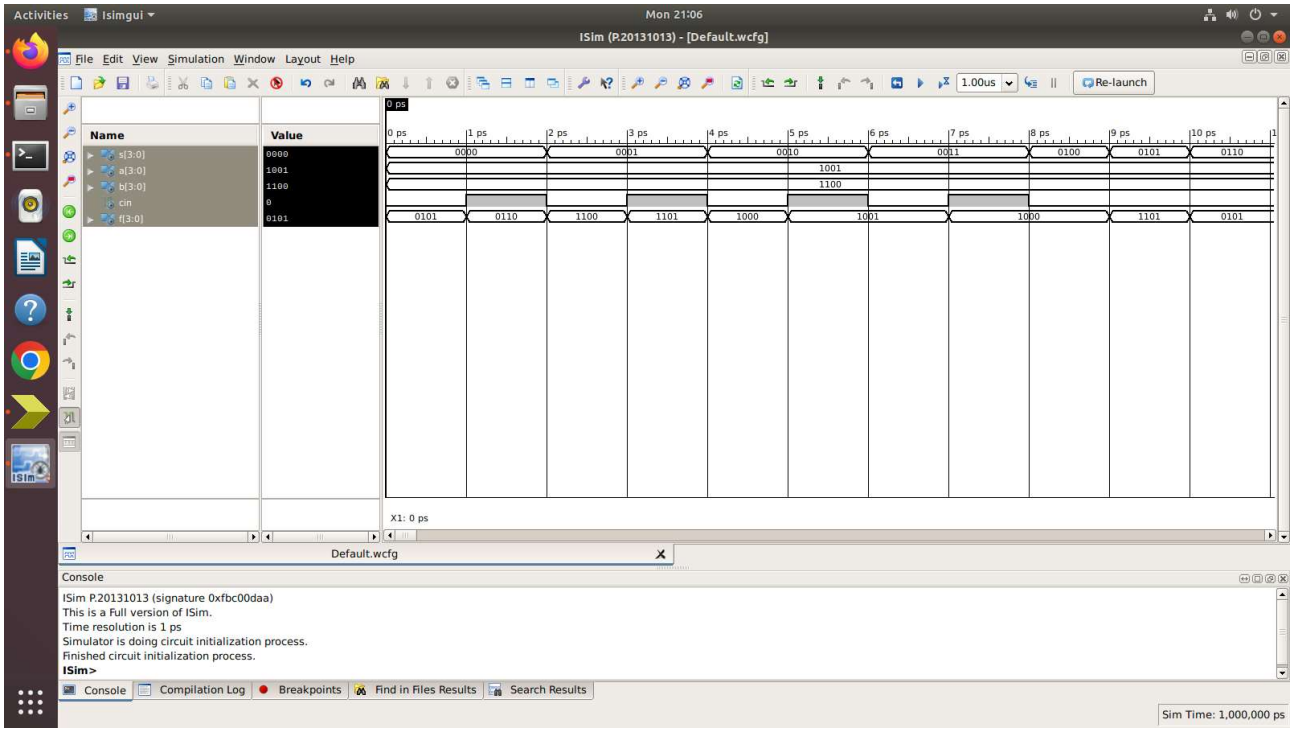
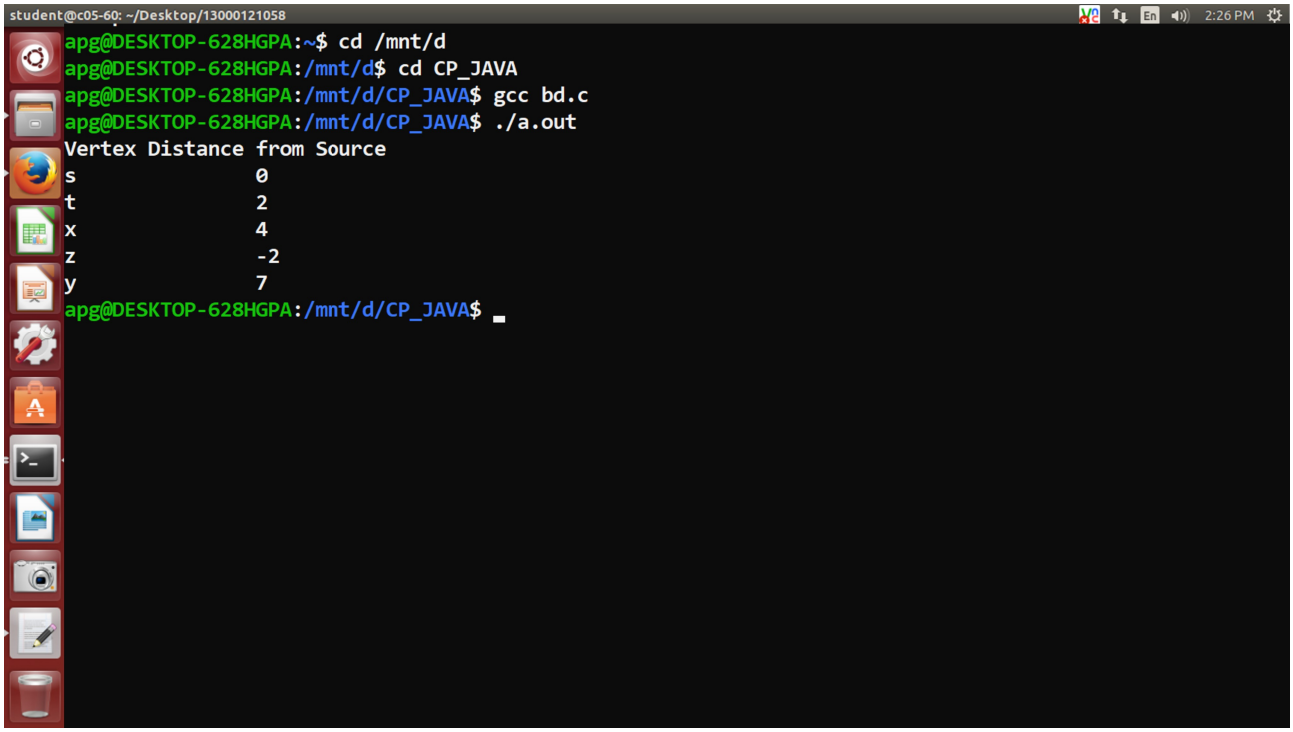
# SCHEMATIC OUTPUT



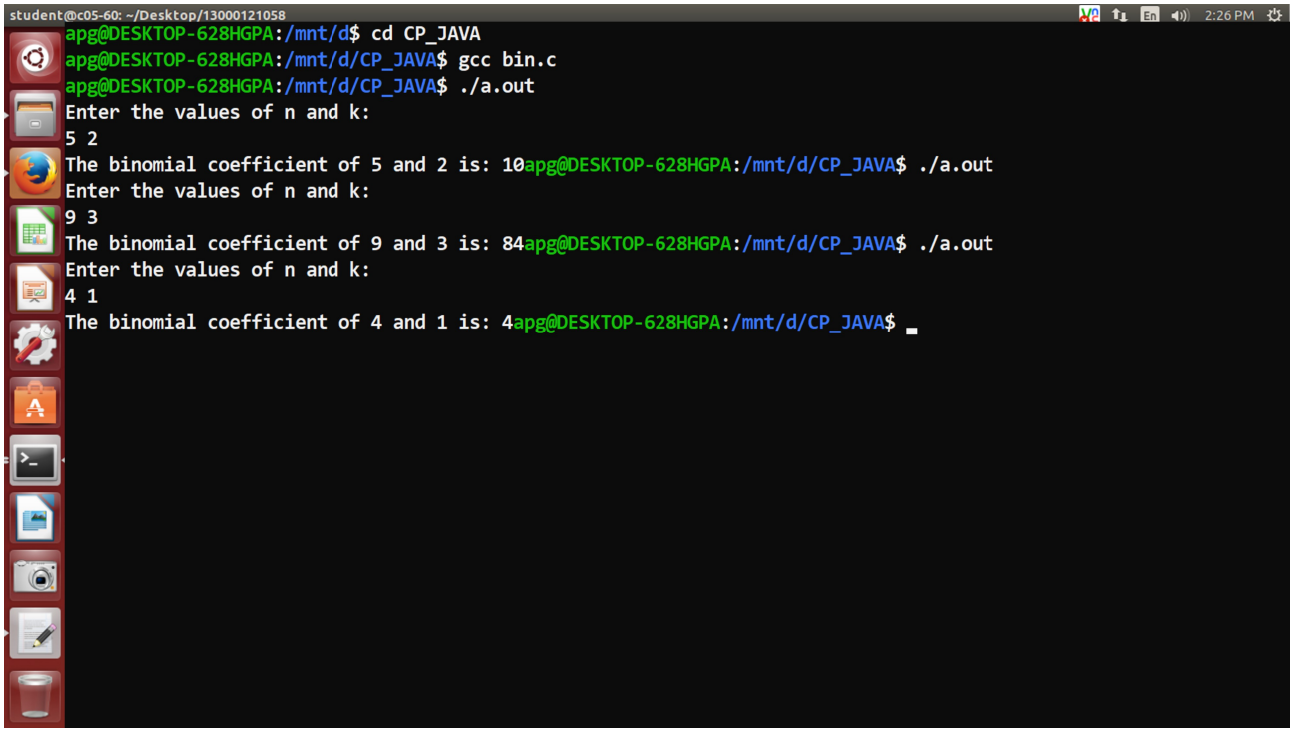
# TEST OUTPUT


Activities
Isimgui
Mon 21:06
ISim (P.20131013) - [Default.wcfg]
File Edit View Simulation Window Layout Help
1.00us
Re-launch
Name
Value
s[3:0]
a[3:0]
b[3:0]
cin
f[3:0]
0000
1001
1100
0
0101
0 ps
1 ps
2 ps
3 ps
4 ps
5 ps
6 ps
7 ps
8 ps
9 ps
10 ps
0000
0001
0010
0011
0100
0101
0110
1001
1100
0101
0110
1100
1101
1000
1001
1000
1101
0101
X1: 0 ps
Default.wcfg
Console
ISim P.20131013 (signature 0xfbc00daa)
This is a Full version of ISim.
Time resolution is 1 ps
Simulator is doing circuit initialization process.
Finished circuit initialization process.
ISim>
Console
Compilation Log
Breakpoints
Find in Files Results
Search Results
Sim Time: 1,000,000 ps

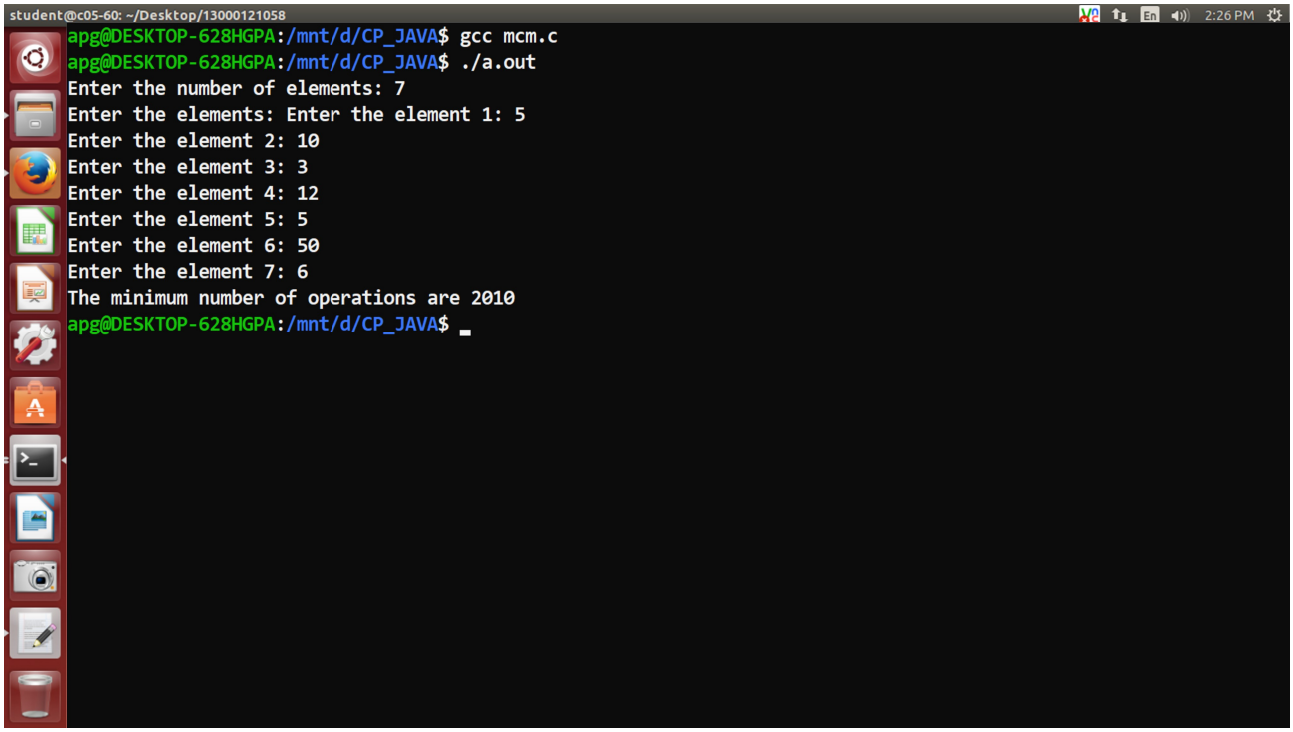
# OUTPUT


student@c05-60: ~/Desktop/13000121058
2:26 PM
apg@DESKTOP-628HGPA:~$ cd /mnt/d
apg@DESKTOP-628HGPA:/mnt/d$ cd CP_JAVA
apg@DESKTOP-628HGPA:/mnt/d/CP_JAVA$ gcc bd.c
apg@DESKTOP-628HGPA:/mnt/d/CP_JAVA$ ./a.out
Vertex Distance from Source
s 0
t 2
x 4
z -2
y 7
apg@DESKTOP-628HGPA:/mnt/d/CP_JAVA$

# OUTPUT


student@c05-60: ~/Desktop/13000121058
2:26 PM
apg@DESKTOP-628HGPA:/mnt/d$ cd CP_JAVA
apg@DESKTOP-628HGPA:/mnt/d/CP_JAVA$ gcc bin.c
apg@DESKTOP-628HGPA:/mnt/d/CP_JAVA$ ./a.out
Enter the values of n and k:
5 2
The binomial coefficient of 5 and 2 is: 10apg@DESKTOP-628HGPA:/mnt/d/CP_JAVA$ ./a.out
Enter the values of n and k:
9 3
The binomial coefficient of 9 and 3 is: 84apg@DESKTOP-628HGPA:/mnt/d/CP_JAVA$ ./a.out
Enter the values of n and k:
4 1
The binomial coefficient of 4 and 1 is: 4apg@DESKTOP-628HGPA:/mnt/d/CP_JAVA$

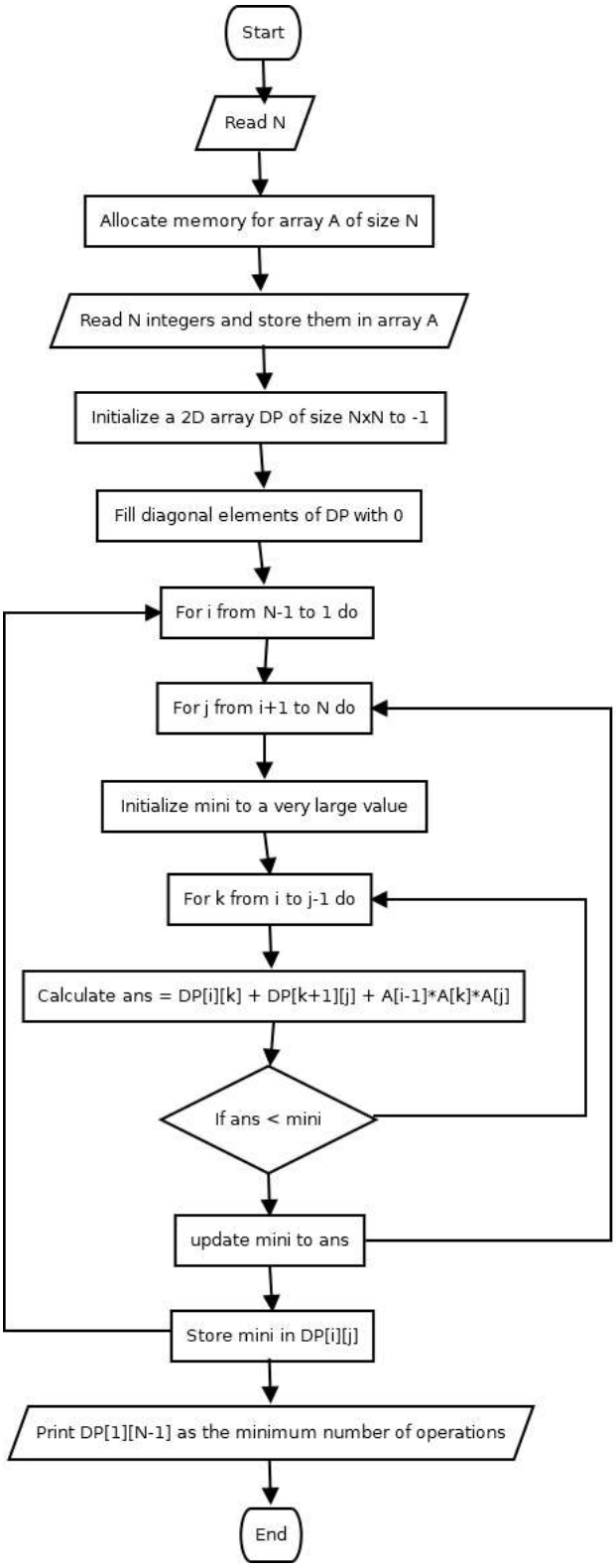
# OUTPUT


student@c05-60: ~/Desktop/13000121058
2:26 PM
apg@DESKTOP-628HGPA:/mnt/d/CP_JAVA$ gcc mcm.c
apg@DESKTOP-628HGPA:/mnt/d/CP_JAVA$ ./a.out
Enter the number of elements: 7
Enter the elements: Enter the element 1: 5
Enter the element 2: 10
Enter the element 3: 3
Enter the element 4: 12
Enter the element 5: 5
Enter the element 6: 50
Enter the element 7: 6
The minimum number of operations are 2010
apg@DESKTOP-628HGPA:/mnt/d/CP_JAVA$

# ASSIGNMENT 3.2

Find the minimum number of scalar multiplication needed for chain of matrix whose sequences are < 5, 10, 3, 12, 5, 50, 6 > using the dynamic programming technique.

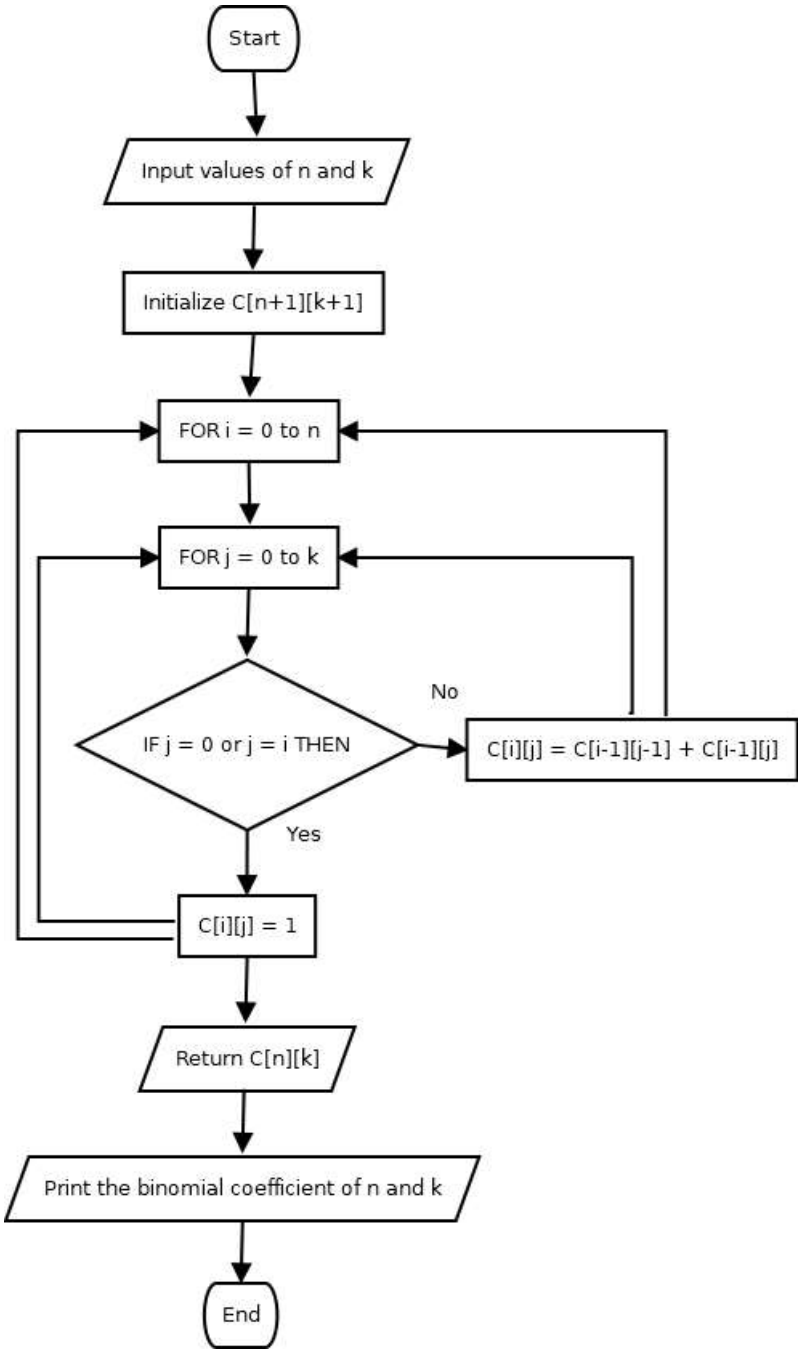
FLOWCHART



# ASSIGNMENT 3.1

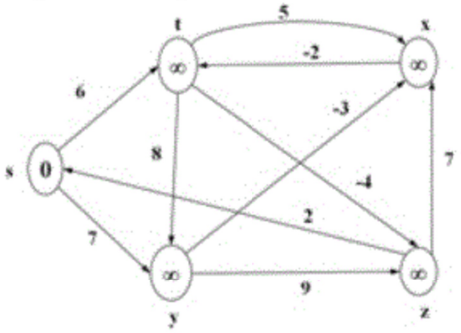
Write a program to find the binomial coefficient using Dynamic programming method.

FLOWCHART



# ASSIGNMENT 4.2

WAP using the single-source-shortest-path problem to find out the shortest path from the source vertex ‘s’ using the Bellman-Ford’s algorithm, using the dynamic programming technique.




FLOWCHART