Day 84 coding Statement :

Given an undirected graph and an integer M. The task is to determine if the graph can be colored with at most M colors such that no two adjacent vertices of the graph are colored with the same color. Here coloring of a graph means the assignment of colors to all vertices. Print 1 if it is possible to colour vertices and 0 otherwise.

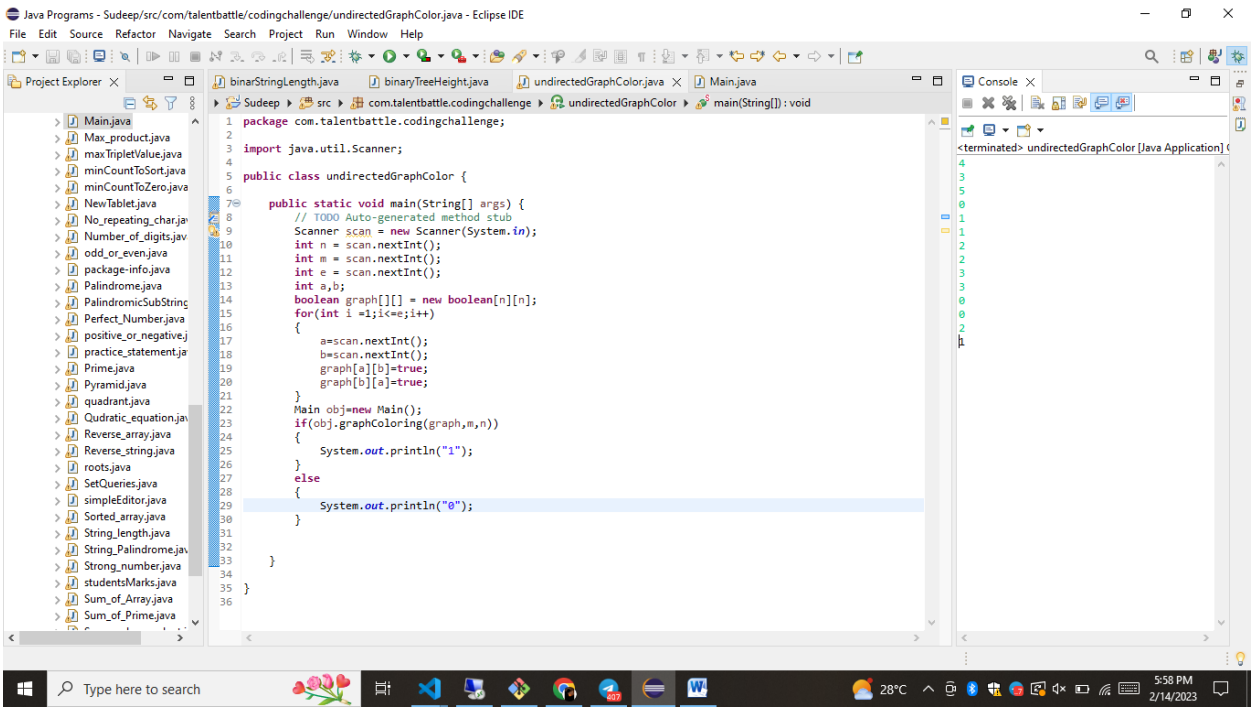
Example 1:

Input:
N = 4
M = 3
E = 5
Edges[] = {(0,1),(1,2),(2,3),(3,0),(0,2)}

Output: 1
Explanation: It is possible to colour the given graph using 3 colours.

Example 2:

Input:
N = 3
M = 2
E = 3
Edges[] = {(0,1),(1,2),(0,2)}
Output: 0


Java Programs - Sudeep/src/com/talentbattle/codingchallenge/undirectedGraphColor.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Main.java
Max_product.java
maxTripletValue.java
minCountToSort.java
minCountToZero.java
NewTablet.java
No_repeating_char.ja
Number_of_digits.jav
odd_or_even.java
package-info.java
Palindrome.java
PalindromicSubStrin
Perfect_Number.java
positive_or_negative.j
practice_statement.ja
Prime.java
Pyramid.java
quadrant.java
Qudratic_equation.ja
Reverse_array.java
Reverse_string.java
roots.java
SetQueries.java
simpleEditor.java
Sorted_array.java
String_length.java
String_Palindrome.ja
Strong_number.java
studentsMarks.java
Sum_of_Array.java
Sum_of_Prime.java
binarStringLength.java
binaryTreeHeight.java
undirectedGraphColor.java
Main.java
Sudeep src com.talentbattle.codingchallenge undirectedGraphColor main(String[]) : void
1 package com.talentbattle.codingchallenge;
2
3 import java.util.Scanner;
4
5 public class undirectedGraphColor {
6
7 public static void main(String[] args) {
8 // TODO Auto-generated method stub
9 Scanner scan = new Scanner(System.in);
10 int n = scan.nextInt();
11 int m = scan.nextInt();
12 int e = scan.nextInt();
13 int a,b;
14 boolean graph[][] = new boolean[n][n];
15 for(int i =1;i<=e;i++)
16 {
17 a=scan.nextInt();
18 b=scan.nextInt();
19 graph[a][b]=true;
20 graph[b][a]=true;
21 }
22 Main obj=new Main();
23 if(obj.graphColoring(graph,m,n))
24 {
25 System.out.println("1");
26 }
27 else
28 {
29 System.out.println("0");
30 }
31
32
33 }
34
35 }
36
Console
<terminated> undirectedGraphColor [Java Application]
4
3
5
0
1
1
2
2
3
3
0
0
2
1
Type here to search
28°C
5:58 PM
2/14/2023