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reviewer4@nptel.iitm.ac.in ⌄

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » **The Joy of Computing using Python (course)**

Announcements (announcements)

About the Course (https://swayam.gov.in/nd1_noc20_cs35/preview)   Ask a Question (forum)

Progress (student/home)   Mentor (student/mentor)

Programming Assignment-3: Binary Matrix

Due on 2020-03-19, 23:59 IST

Given a matrix with N rows and M columns, the task is to check if the matrix is a Binary Matrix. A binary matrix is a matrix in which all the elements are either 0 or 1.

Input Format:
The first line of the input contains two integer number **N** and **M** which represents the number of rows and the number of columns respectively, separated by a space.
From the second line, take **N** lines input with each line containing **M** integer elements with each element separated by a space.

Output Format:
Print 'YES' or 'NO' accordingly

Example:

Input:
3 3
1 0 0
0 0 1
1 1 0

Output:
YES

Sample Test Cases

Input	Output

Test Case	Input	Output
Test Case 1	5 3 1 2 3 4 5 6 7 8 9 1 0 0 1 1 1	NO
Test Case 2	4 6 1 1 0 0 1 1 1 1 1 1 1 1 0 0 0 0 1 0 1 0 1 0 1 0	YES
Test Case 3	1 1 0	YES
Test Case 4	2 2 1 0 0 1	YES
Test Case 5	3 3 1 0 0 2 0 0 1 1 1	NO
Test Case 6	4 4 1 1 1 1 0 0 0 0 1 1 1 1 0 0 0 0	YES

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```
1  def isBinaryMatrix(mat,M,N):
2      for i in range(M):
3          for j in range(N):
4              # Returns false if element
5              # is other than 0 or 1.
6              if ((mat[i][j] == 0 or mat[i][j] == 1)==False):
7                  return False;
8
9      # Returns true if all the
10     # elements are either 0 or 1.
11     return True;
12
13 a,b=map(int,input().split())
14
15
16 m = []
17 for i in range(1,a+1):
18     l = list(map(int, input ().split ()))
19     m.append(l)
20 if (isBinaryMatrix(m,a,b)):
21     print("YES")
22 else:
23     print("NO")
```

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Traversing -
Let's Animate -
Part 05 (unit?
unit=121&lesson=134)

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Traversing -
Let's Animate -
Part 06 (unit?
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Traversing -
Let's Animate -
Part 07 (unit?
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○ GPS - Track
the route (unit?
unit=121&lesson=137)

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the route - Part
01 (unit?
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03 (unit?
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04 (unit?
unit=121&lesson=141)

○ Quiz :
Assignment 7
(assessment?
name=277)

○ Programming
Assignment-1:
Lower
Triangular
Matrix
(/noc20_cs35/progassignment?
name=299)

○ Programming
Assignment-2:
Symmetric
(/noc20_cs35/progassignment?
name=300)

○ **Programming
Assignment-**

**3: Binary
Matrix
(/noc20_cs35/progassignment?
name=301)**

○ Week 7
Feedback
(unit?
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Week 8

Week 9

Week 10

Week 11

Week 12

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