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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)

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

week 4

Week 5

Week 6

Week 7

 Snakes and Ladders - Not on the Board (unit? unit=121&lesson=122)

Snakes and
Ladders - Not
on the Board -

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

100

001

Output: YES

Sample Test Cases

Input

Output

```
Part 01 (unit?
                                                            5 3
  unit=121&lesson=123)
                                                               2 3
                                                            1

    Snakes and

                                                              5 6
                                                            4
                             Test Case 1
                                                                                                         NO
  Ladders - Not
                                                            7 8 9
  on the Board -
                                                            1 0 0
  Part 02 (unit?
                                                           1 1 1
  unit=121&lesson=124)

    Snakes and

                                                            4 6
  Ladders - Not
                                                            1 1 0 0 1 1
  on the Board -
                             Test Case 2
                                                            1 1 1 1 1 1
                                                                                                          YES
  Part 03 (unit?
                                                            0 0 0 0 1 0
  unit=121&lesson=125)
                                                            1 0 1 0 1 0

    Snakes and

  Ladders - Not
                                                           1 1
  on the Board -
                             Test Case 3
                                                                                                          YES
                                                            0
  Part 04 (unit?
  unit=121&lesson=126)
                                                            2 2

    Snakes and

                             Test Case 4
                                                            1 0
                                                                                                          YES
  Ladders - Not
                                                            0 1
  on the Board -
  Part 05 (unit?
  unit=121&lesson=127)
                                                            3 3
                                                            1 0 0

    Snakes and

                             Test Case 5
                                                                                                         NO
                                                            2 0 0
  Ladders - Not
  on the Board -
                                                            1 1 1
  Part 06 (unit?
  unit=121&lesson=128)
                                                            4 4
                                                            1 1 1 1
Spiral
                             Test Case 6
                                                            0 0 0 0
                                                                                                          YES
  Traversing -
  Let's Animate
                                                            1 1 1 1
  (unit?
                                                            0 0 0 0
  unit=121&lesson=129)
Spiral
                            The due date for submitting this assignment has passed.
  Traversing -
                            As per our records you have not submitted this assignment.
  Let's Animate -
                            Sample solutions (Provided by instructor)
  Part 01 (unit?
                                  def isBinaryMatrix(mat,M,N):
  unit=121&lesson=130)
                               123456789
                                        isBinaryMatrix(mat,m,n).
for i in range(M):
    for j in range(N):
        # Returns false if element
        # is other than 0 or 1.
        if ((mat[i][j] == 0 or mat[i][j] == 1)==False):
            return False;
Spiral
  Traversing -
  Let's Animate -
  Part 02 (unit?
  unit=121&lesson=131)
                                         # Returns true if all the
                              10
                                         # elements are either 0 or 1.
Spiral
                              11
12
13
14
15
                                         return True;
  Traversing -
                                  a,b=map(int,input().split())
  Let's Animate -
  Part 03 (unit?
                              16
  unit=121&lesson=132)
                                  for i in range(1,a+1):
    l = list(map(int, input ().split ()))
    m.append(l)
if (isBinaryMatrix(m,a,b)):
    print("YES")
else:
                              17
                              18
19
20
Spiral
  Traversing -
                              21
22
  Let's Animate -
                                  else
  Part 04 (unit?
                                         print("NO")
  unit=121&lesson=133)
```

Spiral Traversing - Let's Animate - Part 05 (unit? unit=121&lesson=134)
Spiral Traversing - Let's Animate - Part 06 (unit? unit=121&lesson=135)
Spiral Traversing - Let's Animate - Part 07 (unit? unit=121&lesson=136)
GPS - Track the route (unit? unit=121&lesson=137)
GPS - Track the route - Part 01 (unit? unit=121&lesson=138)
GPS - Track the route - Part 02 (unit? unit=121&lesson=139)
GPS - Track the route - Part 03 (unit? unit=121&lesson=140)
GPS - Track the route - Part 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)
O Programming Assignment-

3: Binary Matrix (/noc20_cs35/pro name=301)	ogassignment?
Week 7 Feedback (unit? unit=121&lesson=	302)
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Week 9	
Week 10	
Week 11	
Week 12	
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