



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🛣 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

## A. IQ Test

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

In the city of Ultima Thule job applicants are often offered an IQ test.

The test is as follows: the person gets a piece of squared paper with a  $4 \times 4$  square painted on it. Some of the square's cells are painted black and others are painted white. Your task is to repaint **at most one** cell the other color so that the picture has a  $2 \times 2$  square, completely consisting of cells of the same color. If the initial picture already has such a square, the person should just say so and the test will be completed.

Your task is to write a program that determines whether it is possible to pass the test. You cannot pass the test if either repainting any cell or no action doesn't result in a  $2 \times 2$  square, consisting of cells of the same color.

#### Input

Four lines contain four characters each: the j-th character of the i-th line equals "." if the cell in the i-th row and the j-th column of the square is painted white, and "#", if the cell is black.

#### Output

Print "YES" (without the quotes), if the test can be passed and "NO" (without the quotes) otherwise.

# Examples

Examples		
input		
####		
####		
output		
YES		

input		
####		
####		
• • • •		
output		
NO		

## Note

In the first test sample it is enough to repaint the first cell in the second row. After such repainting the required  $2 \times 2$  square is on the intersection of the 1-st and 2-nd row with the 1-st and 2-nd column.

### Codeforces Round #176 (Div. 2)

#### **Finished**

### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags					
(brute force) (implementation)					
No tag edit access					

