

## 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

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.