**Check the address**

Max. Marks: 50

Assume that you have a string **S**. You are required to determine whether this string is a valid IP address. If yes, print "YES", else print "NO".

Note: Ensure that YES and NO are printed without quotes.

A valid IP address has exactly 4 non-empty parts that are separated by 3 dots. For example, 255.255.255.255. The decimal value of each part of an IP address must never be more than 255 and less than 0. The string will consist of numbers and dots (symbol from the ASCII character set) only. All IP addresses will in decimal form i.e. it will have 10 notations only.

**Input Format**  
First line: String S

**Output Format**  
Print the answer (either "YES" or "NO") on a single line.

**Constraints**   
1≤|S|≤641≤|S|≤64

**SAMPLE INPUT**

255.255.255.0

**SAMPLE OUTPUT**

YES

**Explanation**

The string contains exactly 4 non-empty parts and 3 dots. The value of each part is <=255 and >= 0.

**Time Limit:**0.4 sec(s) for each input file.

**Memory Limit:**64 MB

**Source Limit:**1024 KB

**Marking Scheme:**Marks are awarded if any testcase passes.

**Allowed Languages:**C++, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Perl, PHP, Python, Python 3, Scala, Scala 2.11.8, Visual Basic

<https://www.hackerearth.com/challenge/competitive/accenture-hack-diva-professional/algorithm/sahils-computer-address-18/>

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\*/

package javaapplication199;

import java.util.Scanner;

/\*\*

\*

\* @author Administrador

\*/

public class JavaApplication199 {

/\*\*

\* @param args the command line arguments

\*/

static String isValidIp(String ip)

{

String[] partes = ip.split("\\.");

//System.out.println(partes.length);

if (partes.length != 4)

{

return "NO";

}

for(int i =0; i<ip.length(); i++) {

if(ip.charAt(i) != '.' && !(ip.charAt(i) >= '0' && ip.charAt(i)<= '9') ) {

return "NO";

}

}

for(int i =0; i<partes.length ; i++) {

int num = Integer.parseInt(partes[i]);

if(num < 0 || num > 255) {

return "NO";

}

//System.out.println(partes[i]);

}

return "YES";

}

public static void main(String[] args)throws Exception {

// TODO code application logic here

Scanner sc = new Scanner(System.in);

String s =sc.nextLine();

System.out.println(isValidIp(s));

}

}