package day2;

import java.util.Scanner;

public class Regularexpression\_Matching {

public static boolean isMatch(String x , String y){

if(y.length() == 0){

return x.length()==0;

}

if(y.length()==1){

if(x.length()<1){

return false;

}

else if((x.charAt(0) != y.charAt(0))&&(y.charAt(0) != '.')){

return false;

}

else{

return isMatch(x.substring(1),y.substring(1));

}

}

if(y.charAt(1)!='\*'){

if(x.length()<1){

return false;

}

if((y.charAt(0) != x.charAt(0))&&(y.charAt(0) != '.')){

return false;

}

else{

return isMatch(x.substring(1),y.substring(1));

}

}

else{

if(isMatch(x,y.substring(2))){

return true;

}

int i = 0;

while(i<x.length()&&(x.charAt(1)== y.charAt(0)|| y.charAt(0)== '.')){

if(isMatch(x.substring(i+1),y.substring(2))){

return true;

}

}

}

return false;

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the first String");

String st1 = sc.nextLine();

System.out.println("Enter the second String");

String st2 = sc.nextLine();

boolean b = isMatch(st1, st2);

System.out.println(b);

}

}