# A. Checking the Calendar

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input

output: standard output

You are given names of two days of the week.

Please, determine whether it is possible that during some **non-leap year** the first day of some month was equal to the first day of the week you are given, while the first day of **the next month** was equal to the second day of the week you are given. **Both months should belong to one year**.

In this problem, we consider the Gregorian calendar to be used. The number of months in this calendar is equal to 12. The number of days in months during any non-leap year is: 31, 28, 31, 30, 31, 30, 31, 30, 31, 30, 31, 30, 31.

Names of the days of the week are given with lowercase English letters: "monday", "tuesday", "wednesday", "thu rsday", "friday", "saturday", "sunday".

### Input

The input consists of two lines, each of them containing the name of exactly one day of the week. It's guaranteed that each string in the input is from the set "monday", "tuesday", "wednesday", "thursday", "friday", "saturday", "sunday".

#### **Output**

Print "YES" (without quotes) if such situation is possible during some non-leap year. Otherwise, print " (without quotes) if such situation is possible during some non-leap year. Otherwise, print "NO" (without quotes).

#### **Examples**

input	
monday tuesday	
output	
NO NO	

input	
<pre>input sunday sunday</pre>	
output YES	
YES	

input	
saturday tuesday	
output	
YES	

## Note

In the second sample, one can consider February 1 and March 1 of year 2015. Both these days were Sundays.

In the third sample, one can consider July 1 and August 1 of year 2017. First of these two days is Saturday, while the second one is Tuesday.