Lab: Regular Expressions

Test your tasks in the Judge system: https://judge.softuni.org/Contests/4463

1. Match Full Name

Write a program that:

- Reads a **text** from the console
- **Match full names** from the **given text**
- A **valid full name** has the following characteristics:
    - It consists of **two words**
    - Each word **starts** with a **capital letter**
    - After the first letter, it **only contains lowercase letters afterward**
    - **Each** of the **two words** should be **at least two letters long**
    - The **two words** are **separated** by a **single space**
- **Print full names** on the console, separated by single space

Examples

Input	Output
Bethany Taylor, Oliver miller, sophia Johnson, SARah Wilson, John Smith, Sam Smith	Bethany Taylor John Smith
Elvis Presley a a C C-Muhammad Ali EE PeterpeterJR-a a xi ban D D bb b b-B B-c c EE-Michael Jackson DD peter smith B B PETER BROWN IVAN DAVIES-	Elvis Presley Muhammad Ali Michael Jackson

2. Match Phone Number

Write a program that:

- Reads a **text** from the console
- Create a **regular expression** to match a **valid phone number** from **Sofia**
- A **valid number** has the following characteristics:
    - It starts with "**+359**"
    - Then, it is followed by the area code (always **2**)
    - After that, it's followed by the **number** itself:
        - The number consists of **7 digits** (separated into **two groups** of **3** and **4 digits** respectively)
    - The different **parts** are **separated** by **either a space or a hyphen** ('**-**')
- **Print all valid numbers** on the console, separated by a **comma and a space** "**,** "

Examples

Input	Output
+359 2 222 2222,359-2-222-2222, +359/2/222/2222, +359-2 222 2222 +359 2-222-2222, +359-2-222-222, +359-2-222-22222 +359-2-222-2222	+359 2 222 2222, +359-2-222-2222

Follow us:

<mark>+359 2 234 2324</mark>, 359-2-111-9876, +359/8/655/5432, +359-2 222 2222, +359 2-222-2222, +359-2-234-345, +359-2-123-45678, <mark>+359-2-222-2222</mark>, <mark>+359 2 654 1234</mark>	+359 2 234 2324, +359-2-222-2222, +359 2 654 1234

3. Match Dates

Write a program that:

- Reads a **text** from the console
- Create a **regular expression** to match a **valid dates**
- Every **valid date** has the following characteristics:
    - Format: "**dd{separator}MMM{separator}yyyy**"
    - Always starts with **two digits**, followed by a **separator**
    - After that, it has **one uppercase** and **two lowercase** letters (e.g. **Jan**, **Mar**)
    - After that, it has a **separator** and **exactly 4 digits** (for the year)
    - The separator could be either of three things: a period ('**.**'), a hyphen ('**-**') or a forward-slash ('**/**')
    - The separator needs to be **the same** for the whole date (e.g. 13**.**03**.**2016 is valid, 13**.**03**/**2016 is **NOT**). Use a **group backreference** to check for this
- Use **named capturing groups** in your regular expression.
- **Print all valid dates** on the console, separated by a **new line**

Examples

Input	Output
<mark>13/Jul/1928</mark>, <mark>10-Nov-1934</mark>, , 01/Jan-1951,f <mark>25.Dec.1937</mark> 23/09/1973, 1/Feb/2016	Day: 13, Month: Jul, Year: 1928 Day: 10, Month: Nov, Year: 1934 Day: 25, Month: Dec, Year: 1937
<mark>03-Mar-1878</mark>, <mark>25/Apr/1915</mark>, <mark>31-May-1916</mark>, 22/Jun-1941, <mark>25.Dec.1937</mark>, 23/09/1973	Day: 03, Month: Mar, Year: 1878 Day: 25, Month: Apr, Year: 1915 Day: 31, Month: May, Year: 1916 Day: 25, Month: Dec, Year: 1937