

# Regex Expressions Lab in `stringr`

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## Question 1

Using the `state.name` data, do the following:

- a) Find all states that contain at least one instance of the letter “z”
- b) Find all states that contain two subsequent “s”s, i.e., “ss”
- c) Find all states that contain at least one but not more than two subsequent “s”s, i.e., “s” or “ss”
- d) Find all states that contain at least two “i”s, but they need not be subsequent
- e) Find all states that have compound names, i.e., have two words separated by a space
- f) Find all states that begin with either “North” or “South”

## Question 2

Using `fruit` data from `stringr` package, do the following:

- a) How many fruits are melons?
- b) How many fruits are berries?
- c) How many berries come from a single word versus a compound word?

## Question 3

Locate 1st sequence of 1 or more consecutive numbers in the following character vector:

## Question 4

- a) Write a regular expression that will match a typical US phone number.
- b) What if that phone number begins with a “+1”?
- c) What if the phone number lacks spaces?
- d) What if the area code is wrapped in round braces?
- e) What if, instead of dashes, someone decides to use spaces or a “.”?

## Question 5

Write a regular expression that will match a gmail address.