HW10

Andrew Shao

2024-11-15

9.1.3 Q1

```
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr 1.1.2 v readr 2.1.4
## v forcats 1.0.0 v stringr 1.5.0
## v ggplot2 3.4.3 v tibble 3.2.1
## v lubridate 1.9.2 v tidyr
                                  1.3.0
## v purrr
              1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library(readr)
fruits <- c('apple', 'banana', 'cherry')</pre>
str_c(fruits, collapse = ' & ')
## [1] "apple & banana & cherry"
9.1.3 Q2
colors <- c('red', 'green', 'blue', 'yellow', 'purple')</pre>
str_sub(colors, 2, 4)
## [1] "ed" "ree" "lue" "ell" "urp"
9.1.3 Q3
animals <- c('cat', 'dog', 'elephant', 'giraffe')</pre>
str_sub(animals, 2, 4) <- c('at', 'og', 'leph', 'iraf')</pre>
animals
## [1] "cat"
                              "elephhant" "girafffe"
                  "dog"
```

9.2.5 Q1

```
fruits <- c("apple", "banana", "strawberry", "blueberry", "blackberry")</pre>
str_view(fruits, 'an')
## [2] | b<an><an>a
9.2.5 Q2
str_view(fruits, '.e')
## [1] | app<le>
## [3] | straw<be>rry
## [4] | bl<ue><be>rry
## [5] | black<be>rry
9.2.5 Q3
str_view(fruits, 'berry$')
## [3] | straw<berry>
## [4] | blue<berry>
## [5] | black<berry>
9.2.5 Q4
codes <- c("A123", "B456", "Bb56", "C789", "D012", "e345")</pre>
str_view(codes, '[A-Z]\\d')
## [1] | <A1>23
## [2] | <B4>56
## [4] | <C7>89
## [5] | <D0>12
9.2.5 Q5
phone_numbers <- c("555-123-4567", "(555) 123 4567", "5551234567", "1-555-123-4567", "555.123.4567")
str_view(phone_numbers, '\\d{3}-\\d{4}')
## [1] | <555-123-4567>
## [4] | 1-<555-123-4567>
```

```
str_view(phone_numbers, '^\\(\\d{3}\\)')
```

```
## [2] | <(555)> 123 4567
```

9.2.5 Q6

[1] TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE

9.2.6 Q7

```
dates <- c("2021-01-01", "12-31-2021", "2022-28-02", "2022-02-29", "2022-03-01")
str_view(dates, '\\d{4}-(0\\d|1[0-2])-\\d{2}')</pre>
```

```
## [1] | <2021-01-01>
## [4] | <2022-02-29>
```