PA 8 Task Card - 12 Days of Christmas

In this practice activity you and your partner will write two helper functions which we will use later to write a function which sings the entire 12 Days of Christmas song.

This task is complex. It requires many different types of abilities. Everyone will be good at some of these abilities but nobody will be good at all of them. In order to produce the best product possible, you will need to use the skills of each member of your group.

stringr

Task	stringr
Test if the string contains a pattern	<pre>str_detect(string, pattern =)</pre>
Replace pattern with replacement	<pre>str_replace(string, pattern =, replacement =)</pre>
Combine multiple character vectors into a single character vector	str_c(, sep = "")
Replace NA values with a specified character / string value	<pre>str_replace_na(string, replacement = "")</pre>
Strip whitespace from start/end and replace multiple whitespace characters with a single whitespace charater	str_squish(x)
Reference values of characters when creating a string	name <- "Dr. Theobold"
	<pre>glue('My name is {name}.')</pre>

Regex (as input into stringr functions)

Task	Regular Expression
Starts with a z	"^z"
Ends with a w	"w\$"
Find a set of characters	"[abc]" — matches any single character a, b, or c

You may find the following small example useful:

```
my_names <- c("Kimberly", "Trini", "Jason", "Billy", "Zach", "Tommy")
str_c(my_names, "s", sep = "")</pre>
```

```
str_replace(my_names, "y$", "ies")
str_replace(my_names, "mm", "nn")
```

Conditional Operations

Two Conditions

Vectorized

```
if_else(x >= 0,
    "Positive or zero",
    "Negative"
)
```

· Not Vectorized

```
if(x >= 0){
  return("Positive or zero")
} else{
  return("Negative")
}
```

Three or More Conditions

Vectorized

· Not Vectorized

```
if(x > 0) {
  return("Greater than 0!")
} else if (x < 0) {
   return("Less than 0!")
} else {
    return("Equal to 0!")
}</pre>
```