DIT636 / DAT560 - Category Partition Method Activity

You have created a service intended to find all instances of a **pattern** in a **file**. You want to now design system-level test specifications, then apply the category partition method to limit the number of specifications.

find(pattern,file)

This pattern can contain spaces and quotes. For example:

```
find("john", myFile)
Finds all instances of john in the file

find("john smith", myFile)
Finds all instances of john smith in the file

find(""john" smith", myFile)
Finds all instances of "john" smith in the file
```

Use the category-partition method to identify a pool of valid test specifications for this function.

- 1. Identify the <u>choices</u> that you control when testing.
 - For each input parameter (pattern, file), what aspects should you consider when testing?
 - Are there any aditional environmental factors that you can control that will also impact the outcome of executing this service?
- 2. For each choice, identify a set of <u>representative values</u> that could lead to different outcomes of executing this service.
 - These are the options you can select for that choice.
 - Try to group related values that lead to the same outcome (e.g., "positive integer" instead of 1, 2, 3, 4, 5, ...)
- 3. Impose <u>constraints</u> on the representative values of different choices to reduce the pool of test cases.
 - error constraints identify representative values that should result in an error no matter what values are selected for other choices.
 - single constraints identify representative values that should result in normal execution, but should be tried once because they have the potential for error or strange behavior.
 - if-constraints identify representative values for choices that should only be used
 if particular values are used for other choices.
 - ("if choice X = THIS, then choice Y = THAT")