**TDA/DIT 594 - Category Partition Method Activity**

You have created a utility intended to find all instances of a **pattern** in a **file**.

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.

1. Identify the **choices** that you control when testing.
2. For each choice, identify a set of **representative values** that could lead to different outcomes of the function.
3. Impose constraints on the choices to reduce the pool of test cases.
   1. **error** constraints identify values that should result in an error no matter what other values they are paired with.
   2. **single** constraints identity values that should result in normal execution, but should be tried once because they have the potential for error or strange behavior.
   3. **if-constraints** identify values that should only be used if other choices are set to particular values (“if choice X = THIS, then choice Y = THAT)