Exercise #1

Load the amount pledged (in U.S. dollars) from the data file into an array of floating point values.

Then, produce the following descriptive statistics:

1. Total number of projects
2. Amount pledged: minimum, mean, standard deviation, and maximum
3. Proportion (or percentage) of projects that earned total pledges of at least $1,000

Exercise #2

Load the project categories from the data file into an array of strings.

Count the frequency of each category, and then calculate the proportion of observations that fall into each category. Return both results (category and proportion of observations) in the form of a dictionary. Hint: Look at the help for np.unique.

Which project category is the most popular (in terms of the number of projects)? Least popular? Write your answer in a markdown cell.

Exercise #3

Import the project states from the data file into an array of strings.

For each project category, calculate the proportion (or percentage) of projects that were successful. Hint: Use np.where.

Which project category is the most successful (on average)? Least successful (on average)? Write your answer in a markdown cell.

Exercise #4

Load the staff pick and spotlight columns from the data file into (separate) arrays of strings.

Calculate the total number of projects in each featured category, and then calculate the associated success rates in each category (proportion of successful projects).

Which feature (staff pick or spotlight) is associated with a higher proportion of successful projects? Write your answer in a markdown cell.