Dice Roll Software Requirements

1: A die must contain some number of sides.

    1.1: Default value for number of sides must be 6

    1.2: Any other integer value must be able to be used for the number of sides of a die

2: A dice roll must return a number from 1 to the number of sides of the die.

3: The user must be able to choose the number of sides the die rolled will have.

4: The user must choose how many dice rolls to perform.

5: A die must be created with a set number of sides

6: The die must be rolled however many times the user chose.

    6.1: Each roll must be stored to a list named results.

7: The number of occurrences of each value must be saved to a list named frequencies.

8: The data from the rolls must be printed to a bar chart.

    9.1: The X-Axis must contain the value from each side of the die

        9.1.1: The title of the X-Axis must be 'Result of Roll'

    9.2: The Y-Axis must contain the frequencies of each value

        9.2.1: The title of the Y-Axis must be 'Frequency of Result'

    9.3: The main header of the chart must be 'Results of rolling D{num_sides} {num_tests} times'

    9.4: The name of the chart must be **'d{num_sides}_{num_tests}executions.html'**