Counting DNA Nucleotides

In this exercise, we'll count the frequency of the four nucleotide bases in a given string of DNA as described on the Rosalind.info site^[1] Write a Python program called dna.py that will accept a single, required, positional argument that is a string of dna and print the number of times you see each of the bases A, C, G, and T (in that order) separated by spaces.

The program should print a brief usage when run with no input:

```
$ ./dna.py
usage: dna.py [-h] str
dna.py: error: the following arguments are required: str
```

Or a longer usage for the -h or --help flags:

Examples of running:

A passing test suite looks like this:

```
$ make test
pytest -xv test.py
collected 11 items
test.py::test_exists PASSED
                                                       [ 9%]
test.py::test_no_arg_and_usage PASSED
                                                       [ 18%]
test.py::test_a_upper PASSED
                                                       [ 27%]
test.py::test_a_lower PASSED
                                                       [ 36%]
test.py::test_c_upper PASSED
                                                       [ 45%]
test.py::test_c_lower PASSED
                                                       [ 54%]
test.py::test_g_upper PASSED
                                                       [ 63%]
                                                       [ 72%]
test.py::test_g_lower PASSED
test.py::test_t_upper PASSED
                                                       [ 81%]
test.py::test_t_lower PASSED
                                                       [ 90%]
test.py::test_rosalind_example PASSED
                                                       [100%]
```

NOTE

Solve this problem using only the skills you've learned up to chapter 3—that is, only using Python str methods.

[1] This is a website with various bioinformatics coding challenges. It's named after Rosalind Franklin who should have gotten a Nobel Prize for her work on discovering the double-helix structure of DNA. Instead, she died early with little recognition of her contributions, but she did get this website named after her.