wk2 assignment

September 28, 2020

[2]: longSeq =__

 \neg """ATGGAGAGCCTTGTTCTTGGTGTCAACGAGAAAACACACGTCCAACTCAGTTTGCCTGTCCTTCAGGTT AGAGACGTGCTAGTGCGTGGCTTCGGGGGACTCTGTGGAAGAGGCCCTATCGGAGGCACGTGAACACCTCAA AAATGGCACTTGTGGTCTAGTAGAGCTGGAAAAAGGCGTACTGCCCCAGCTTGAACAGCCCTATGTGTTC ATTAAACGTTCTGATGCCTTAAGCACCAATCACGGCCACAAGGTCGTTGAGCTGGTTGCAGAAATGGACG GCATTCAGTACGGTCGTAGCGGTATAACACTGGGAGTACTCGTGCCACATGTGGGCGAAACCCCAATTGC ATACCGCAATGTTCTTCGTAAGAACGGTAATAAGGGAGCCGGTGGTCATAGCTATGGCATCGATCTA AAGTCTTATGACTTAGGTGACGAGCTTGGCACTGATCCCATTGAAGATTATGAACAAAACTGGAACACTA A GCATGGCAGTGGTGCACTCCGTGAACTCACTCGTGAGCTCAATGGAGGTGCAGTCACTCGCTATGTCGA ${\tt CAACAATTTCTGTGGCCCAGATGGGTACCCTCTTGATTGCATCAAAGATTTTCTCGCACGCGCGGGCAAG}$ TCAATGTGCACTCTTTCCGAACACTTGATTACATCGAGTCGAAGAGGGTGTCTACTGCTGCCGTGACC ATGAGCATGAAATTGCCTGGTTCACTGAGCGCTCTGATAAGAGCTACGAGCACCAGACACCCTTCGAAAT TAAGAGTGCCAAGAATTTGACACTTTCAAAGGGGAATGCCCAAAGTTTGTGTTTCCTCTTAACTCAAAA GTCAAAGTCATTCAACCACGTGTTGAAAAGAAAAAGACTGAGGGTTTCATGGGGCGTATACGCTCTGTGT ACCCTGTTGCATCTCCACAGGAGTGTAACAATATGCACTTGTCTACCTTGATGAAATGTAATCATTGCGA TGAAGTTTCATGGCAGACGTGCGACTTTCTGAAAGCCACTTGTGAACATTGTGGCACTGAAAATTTAGTT $\tt CCGCAAGGGAGGTAGGACTAGATGTTTTGGAGGCTGTGTTTTGCCTATGTTGGCTGCTATAATAAGCGT$ GCCTACTGGGTTCCTCGTGCTAGTGCTGATATTGGCTCAGGCCATACTGGCATTACTGGTGACAATGTGG AGACCTTGAATGAGGATCTCCTTGAGATACTGAGTCGTGAACGTGTTAACATTAACATTGTTGGCGATTT ATAAAGAGTCTTGATTACAAGTCTTTCAAAACCATTGTTGAGTCCTGCGGTAACTATAAAGTTACCAAGG GAAAGCCCGTAAAAGGTGCTTGGAACATTGGACAACAGAGATCAGTTTTAACACCACTGTGTGGTTTTCC $\tt CTCACAGGCTGCTGGTGTTATCAGATCAATTTTTGCGCGCACACTTGATGCAGCAAACCACTCAATTCCT$ GATTTGCAAAGAGCAGCTGTCACCATACTTGATGGTATTTCTGAACAGTCATTACGTCTTGTCGACGCCA TGGTTTATACTTCAGACCTGCTCACCAACAGTGTCATTATTATGGCATATGTAACTGGTGGTCTTGTACA ACAGACTTCTCAGTGGTTGTCTAATCTTTTGGGCACTACTGTTGAAAAACTCAGGCCTATCTTTGAATGG ATTGAGGCGAAACTTAGTGCAGGAGTTGAATTTCTCAAGGATGCTTGGGAGATTCTCAAATTTCTCATTA CAGGTGTTTTTGACATCGTCAAGGGTCAAATACAGGTTGCTTCAGATAACATCAAGGATTGTGTAAAATG CTTCATTGATGTTAACAAGGCACTCGAAATGTGCATTGATCAAGTCACTATCGCTGGCGCAAAGTTG ${\tt CGATCACTCAACTTAGGTGAAGTCTTCATCGCTCAAAGCAAGGGACTTTACCGTCAGTGTATACGTGGCA}$ TGACACAGTACTTACCTCTGAGGAGGTTGTTCTCAAGAACGGTGAACTCGAAGCACTCGAGACGCCCGTT GATAGCTTCACAAATGGAGCTATCGTTGGCACACCAGTCTGTGTAAATGGCCTCATGCTCTTAGAGATTA GGGTGCACCAATTAAAGGTGTAACCTTTGGAGAAGATACTGTTTGGGAAGTTCAAGGTTACAAGAATGTG

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[3]: #1. Define 'shorterSeq' as is in this lesson.
shorterSeq = longSeq[2500:]
print(shorterSeq)
```

AGATCACATTTGGAGAAGATACTGTTTGGGAAGTTCAAGGTTACAAGAATGTG
AGAATCACATTTGAGCTTGATGAACGTGTTGACAAAGTGCTTAATGAAAAGTGCTCTGTCTACACTGTTG
AATCCGGTACCGAAGTTACTGAGTTTGCATGTGTTGTAGCAGAGGCTGTTGTGAAGACTTTACAACCAGT
TTCTGATCTCCTTACCAACATGGGTATTGATCTTGATGAGTGGAGTGTAGCTACATTCTACTTATTTGAT
GATGCTGGTGAAGAAAACTTTTCATCACGTATGTATTGTTCCTTTTACCCTCCAGATGAGGAAGAAGAGG
ACGATGCAGAGTGTGAGGAAGAAAATTGATGAAAACCTGTGAACATGAGTACGGTACAGAGGATGATTA
TCAAGGTCTCCCTCTGGAATTTGGTGCCTCAGCTGAAACAGTTCGAGTTGAGGAAGAAGAAGAAGACCAGTTA
ATCAGTTTACTGGTTATTTAAAACTTACTGACAATGTTGCCATTAAATGTGTTGACATCGTTAAAGGAGGC

```
[16]: #2. Get it's length
shortSeq_len = len(shorterSeq)
print(shortSeq_len)
```

623

615

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[18]: # 4. Compare the output for steps 2 and 3 to see if they are equal. # NO
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[12]: #5. IMPLEMENT THE STRING METHOD THAT WILL REMOVE THE NEWLINES.
strip_newline_seq = shorterSeq.split()
print(strip_newline_seq)
```

['AGGTGTAACCTTTGGAGAAGATACTGTTTGGGAAGTTCAAGGTTACAAGAATGTG',

^{&#}x27;AGAATCACATTTGAGCTTGATGAACGTGTTGACAAAGTGCTTAATGAAAAGTGCTCTGTCTACACTGTTG',

^{&#}x27;AATCCGGTACCGAAGTTACTGAGTTTGCATGTGTTGTAGCAGAGGCTGTTGTGAAGACTTTACAACCAGT',

^{&#}x27;TTCTGATCTCCTTACCAACATGGGTATTGATCTTGATGAGTGGAGTGTAGCTACATTCTACTTATTTGAT',

^{&#}x27;GATGCTGGTGAAGAAACTTTTCATCACGTATGTATTGTTCCTTTTACCCTCCAGATGAGGAAGAAGAGGG',

- 'ACGATGCAGAGTGTGAGGAAGAAGAATTGATGAAACCTGTGAACATGAGTACGGTACAGAGGATGATTA',
- 'TCAAGGTCTCCCTCTGGAATTTGGTGCCTCAGCTGAAACAGTTCGAGTTGAGGAAGAAGAAGAAGAAGAAGAC,
- 'TGGCTGGATGATACTACTGAGCAATCAGAGATTGAGCCAGAACCAGAACCTACACCTGAAGAACCAGTTA',
- 'ATCAGTTTACTGGTTATTTAAAACTTACTGACAATGTTGCCATTAAATGTGTTGACATCGTTAAGGAGGC']
- [15]: shorterSeq_join = "".join(strip_newline_seq)
- [16]: print(shorterSeq_join)

- [17]: len(shorterSeq_join)
- [17]: 615
- [20]: # 6. Step 3 and Step 5 have the SAME RESULT.