1 point

Consider finding all the YouTube links on a web page. What is the video for the second YouTube link on the web page

http://www.dukelearntoprogram.com/course2/data/manylinks.html about?

Walt Disney cartoons

Potatoes

Turkeys, Ducks and Quails

STEM

point

Consider the following mystery method. 2.

```
1 - public String mystery(String dna) {
     int pos = dna.indexOf("T");
      int count = 0;
      int startPos = 0;
      String newDna = "";
 5
     if (pos == -1) {
 7
        return dna;
 8
9 \neq \text{while (count < 3)}  {
10
       count += 1;
11
        newDna = newDna + dna.substring(startPos,pos);
12
        startPos = pos+1;
13
        pos = dna.indexOf("T", startPos);
14 -
        if (pos == -1) {
15
          break;
16
17
18
      newDna = newDna + dna.substring(startPos);
19
      return newDna;
20 }
```

Which of the following best describes what it does?

- The method mystery is given a string and it returns a string which is the same string but with the first three T's each replaced with two T's.
- The method mystery is given a string and it returns a string which is three copies of the original string.
- The method mystery is given a string and it returns a string which is the same string but with the first three T's removed.
- The method mystery is given a string and it returns a string which is the same string but with all the T's removed.
- The method mystery is given a string and it returns a string which is the same string but with the each T each replaced with two T's.

point

Use the following data file to answer this question: 3. <a href="http://www.cs.duke.edu/~rodger/GRch38dnapart.fa">http://www.cs.duke.edu/~rodger/GRch38dnapart.fa</a>. How many genes are in this file?

149

point

Use the following data file to answer this question: http://www.cs.duke.edu/~rodger/GRch38dnapart.fa. How many genes in this file are longer than 60?

52

point

Use the following data file to answer this question: http://www.cs.duke.edu/~rodger/GRch38dnapart.fa. How many genes in this file have cgRatio greater than 0.35?

83

point

Use the following data file to answer this question which represents one long strand of DNA: <a href="http://www.cs.duke.edu/~rodger/GRch38dnapart.fa">http://www.cs.duke.edu/~rodger/GRch38dnapart.fa</a>. How many times does the codon CTG appear in this strand of DNA?

Enter answer here

point

Use the following data file to answer this question: http://www.cs.duke.edu/~rodger/GRch38dnapart.fa. What is the length of the longest gene in the collection of genes found in this file?

489

I, Ning Zheng, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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