point



1. 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

Turkeys, Ducks and Quails

Potatoes

STEM

point

2. Consider the following mystery method.

```
1 - public String mystery(String dna) {
     int pos = dna.index0f("T");
     int count = 0;
     int startPos = 0;
      String newDna = "";
 5
     if (pos == -1) {
 6 =
 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);
        if (pos == -1) {
14 -
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 removed.
- 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 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 first three T's each replaced with two T's.
- 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.

1 point 3. Use the following data file to answer this question: http://www.cs.duke.edu/~rodger/GRch38dnapart.fa. How many genes are in this file?

69

1 point 4. 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?

23

1 point 5. 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?

40

1 point 6. Use the following data file to answer this question which represents one long strand of DNA: http://www.cs.duke.edu/~rodger/GRch38dnapart.fa. How many times does the codon CTG appear in this strand of DNA?

184

1 point 7. 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?

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