1	
poin	t

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

STEM

Potatoes

point

Consider the following mystery method. 2.

```
1 - public String mystery(String dna) {
     int pos = dna.index0f("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 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 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.
- The method mystery is given a string and it returns a string which is three copies of the original string.

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?

62

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?

27

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?

50

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?

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