Strings in Java

Quiz, 7 questions

1
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?

○ STEM

○ Potatoes

○ Walt Disney cartoons

○ Turkeys, Ducks and Quails

1
point

2.

Consider the following mystery method.

```
1    public String mystery(String dna) {
2      int pos = dna.indexOf("T");
3      int count = 0;
4      int startPos = 0;
5      String newDna = "";
6      if (pos == -1) {
7        return dna;
8      }
9      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.

○

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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 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.

○ 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.

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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?

Enter answer here

---

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?

Enter answer here

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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?

Enter answer here

---

1 point

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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?

Enter answer here

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?

Enter answer here

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