Strings in Java

Quiz, 7 questions

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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?

○ Turkeys, Ducks and Quails

○ Potatoes

○ Walt Disney cartoons

○ STEM

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2.

Consider the following mystery method.

Strings in Java

```
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 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 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 each T each replaced with two T's.

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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?

169

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point

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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?

> 56

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?

> 117

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?

> 224

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?

> 489

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