1.
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?

- ○ Potatoes
- ○ Walt Disney cartoons
- ● Turkeys, Ducks and Quails
- ○ STEM

2.
1 point

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 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 the same string but with all the 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 the each T each replaced with two T's.

3.
1 point

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
```

4.
1 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?

```
23
```

5.
1 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?

```
40
```

6.
1 point

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
```

7.
1 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
```

Submit Quiz