Quiz, 7 questions

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Required to pass: 80% or higher

You can retake this quiz up to 3 times every 8 hours.

Back to Week 2

Retake



1. Consider finding all the YouTube links on a web page. What is the video for the second YouTube link on the web page

1 / 1 points http://www.dukelearntoprogram.com/course2/data/manylinks.html about?



Consider the following mystery method.

1 / 1 points

```
1 - public String mystery(String dna) {
     int pos = dna.indexOf("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;
        pos = dna.indexOf("T", startPos);
13
       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?



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?





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?





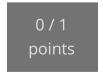
5. Use the following data file to answer this question:

http://www.cs.duke.edu/~rodger/GRch38dnapart.fa. How many genes in this file have cgRatio greater than 0.35?





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?





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?