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1. Consider the assignment that goes with this lesson and its algorithm for finding a gene with stop codon TAA.

1 / 1 points

Consider the following DNA string.

• "AAATGCCCTAACTAGATTAAGAAACC"

Which one of the following is the gene returned using that algorithm?

ATGCCC

The empty string.

ATGCCCTAACTAGATTAA

ATGCCCTAA

Note: This is the correct answer.

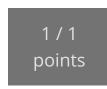
Correct!

**Correct** 

CCC

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2. Which one of the following replaces the String variable dna with the lowercase version of this string?



1 dna = toLowerCase(dna);

1 dna = dna.toLowerCase();

Correct!

1 dna.toLowerCase() = dna;

1 dna.toLowerCase();



3. After adding two additional parameters to findSimpleGene for the startCodon and stopCodon, which of the following is another change that must be made for the program to compile?

points

Two return statements must be added to findSimpleGene

Two if statements must be added to testSimpleGene

Two arguments must be added to the call to findSimpleGene.

Two if statements must be added to findSimpleGene.

This should not be selected

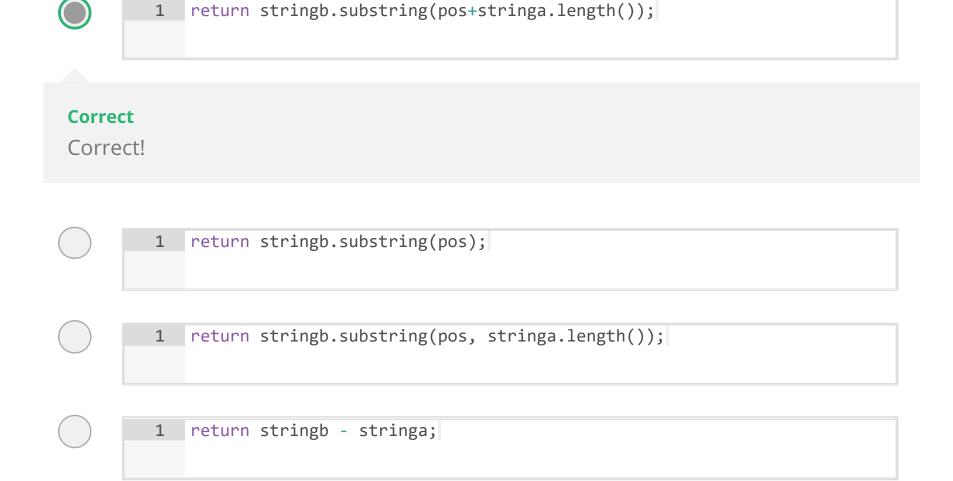
This is not a correct answer.

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part of stringb that comes after stringa in the method lastPart?

Suppose that stringa is in stringb at position pos. Which one of the following returns the

points



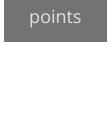


5.

when stringa is found. Which of the following lines of code assigns pos2 to the second
occurrence of stringa if there is a second occurrence?

 pos2 = stringb.indexOf(stringa, pos+1);

In the method twoOccurrences, suppose pos is the value of the first occurrence of stringa



Correct!

1 pos2 = stringb.indexOf(stringa);

1 pos2 = stringb.indexOf(stringa, pos);

1 pos2 = indexOf(stringb, stringa, pos);

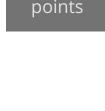


6.

YouTube URL links.

1 URLResource file = new URLResource("http://someURL");
2 for (String item : file.words()) {

Consider assignment 2 for this lesson. Consider the code to find and print all the



String itemLower = item.toLowerCase();
int pos = itemLower.indexOf("youtube.com");
if (pos != -1) {
 MISSING CODE
 }

Which one of the following is the missing code to find and print all the YouTube URLs?

1 int beg = item.lastIndexOf("\"".pos);

1 int beg = item.lastIndexOf("\"", pos);
2 int end = item.indexOf("\"", pos+1);
3 Svstem.out.println(item.substring(beg+1.end)):

1 indexOf("\"", pos-9);
2 int end = item.indexOf("\"", pos+1);
3 System.out.println(item.substring(beg+1,end));

1 int beg = itemLower.lastIndexOf("\"", pos);
2 int end = itemLower.indexOf("\"", pos+1);

3 System.out.println(itemLower.substring(beg+1,end));

1 int beg = item.indexOf("\"", pos-6);
2 int end = item.lastIndexOf("\"", pos+1);
3 System.out.println(item.substring(beg+1,end));

1 int beg = item.lastIndexOf("\"");
2 int end = item.lastIndexOf("\"", pos+1);
3 System.out.println(item.substring(beg+1,end));

This should not be selected

another double quote.

1 int beg = itemLower.indexOf("\"",pos-9);
2 int end = itemLower.indexOf("\"", pos+1);

3 System.out.println(itemLower.substring(beg+1,end));

This is not a correct answer. There could be other items on the line including