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Final Quiz - Question 5: cgRatio [Please HELP]

Leslie Sun [Week 2](#) · 3 days ago

At first, I got 51 for the number of genes with cg ratio larger than 0.35. Later I read a post on the forum saying that I should truncate the cg ratio to 2 decimal places, instead of rounding them. (e.g. 0.355555 should first become 0.35 instead of 0.36, then be compared to 0.35) After modifying my code, I got 50. But it's still incorrect.

I have attached my code below. I can't tell what's wrong with my code. Please help me! I'm desperate!

```
1 public double cgRatio(String dna) {
2     int countc = 0;
3     int countg = 0;
4     double ratio = 0.0;
5     for (char s: dna.toCharArray()) {
6         if (Character.toString(s).equals("C")) {
7             countc++;
8         }
9         if (Character.toString(s).equals("G")) {
10            countg++;
11        }
12    }
13    ratio = ((double) countc)/ countg;
14    ratio = Math.floor(ratio * 100) / 100;
15    return ratio;
16 }
17
18 public void processGenes(StorageResource sr) {
19     int length_ = 0;
20     int cg = 0;
21     int count = 0;
22     String longest = "";
23
24     for (String s:sr.data()) {
25         count++;
26         if (s.length() > 60) {
27             System.out.println("Gene length > 60: " + s);
28             length_++;
29         }
30
31         if (cgRatio(s) > 0.35) {
32             System.out.println("Gene cg ratio > 0.35: " + s);
33             cg++;
34         }
35
36         if (s.length() > longest.length()) {
37             longest = s;
38         }
39     }
40
41     //Below were some other code for printing. I didn't paste
42     //them over.
```

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Mary Sexton · 6 hours ago

Hi Leslie, it sounds like you're getting the same wrong answer I did at first. I had to go back and reread this:

Write the method cgRatio that has one String parameter dna, and returns the ratio of C's and G's in dna as a fraction of the entire strand of DNA. For example if the String were "ATGCCATAG," then cgRatio would return 4/9 or .4444444.

So, you don't divide C by G. You add C and G and divide that by the length of the string.

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Leslie Sun · 6 hours ago

Omg yes! I can't believe I missed that. Thank you so much!

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Leslie Sun · 3 days ago

Btw, I got everything else in this final quiz correct, except for question 5.

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