FINDING POINT MUTATIONS IN DNA

Problem

Given two strings s and t of equal length, the **Hamming distance** between s and t, denoted $d_H(s,t)$, is the number of corresponding symbols that differ in s and t.

Given:

Two DNA strings s and t of **equal length** (not exceeding 1 kbp).

Return:

The Hamming distance $d_H(s,t)$

Sample Dataset

```
GAGCCTACTAACGGGAT
CATCGTAATGACGGCCT
```

Sample Output

```
7
```

GAGCCTACTAACGGGAT
CATCGTAATGACGGCCT

Figure 2. The Hamming distance between these two strings is 7. Mismatched symbols are colored red.