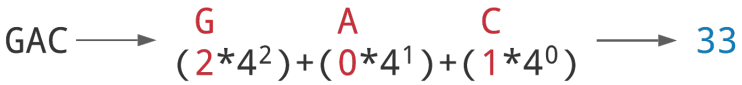
1L Implement PatternToNumber

PatternToNumber Problem
Convert a DNA string to a number.

Input: A DNA string *Pattern*.
Output: PATTERNTONUMBER(*Pattern*).



Formatting

Input: A DNA string *Pattern*.
Output: An integer representing the output of PATTERNTONUMBER(*Pattern*).

Constraints

- The length of *Pattern* will be between 1 and 10^2.
- *Pattern* will be a DNA string.

Test Cases

Case 1

Description: The sample dataset is not actually run on your code.

Input:

```
AGT
```

Output:

```
11
```

Case 2

Description: *Pattern* is made up of only one character.

Input:

```
CCC
```

Output:

```
21
```

Case 3

Description: *Pattern* is long, but is 'A'-dense.

Input:

```
AAAAAAAAAAG
```

Output:

```
2
```

Case 4

Description: *Pattern* has a length of 1.

Input:

```
T
```

Output:

```
3
```

Case 5

Description: A larger dataset of the same size as that provided by the randomized autograder. Check input/output folders for this dataset.