Maximum Roman Numeral Length

THE CHALLENGE

Write a function that finds the maximum length of any Roman numeral up to *n*.

More Details

The first five Roman numerals are I, II, III, IV, V, and so the maximum length of any Roman numeral up to $n = 5$ is 3.

What Your Function Should Do

Write a function `MaxRomanLength` that takes a positive integer n as an input and outputs the maximum length of any Roman numeral up to n. Use `RomanNumeral` to generate the numerals.

```
MaxRomanLength[8]
```

Out[1] = 4

```
MaxRomanLength[100]
```

Out[2] = 8

```
MaxRomanLength[1000]
```

Out[3] = 12

More Examples

Here are the first five Roman numerals:

```
RomanNumeral[Range[5]]
```

Out[4] = {I, II, III, IV, V}

The longest numeral has length 3:

```
MaxRomanLength[5]
```

Out[5] = 3

SCRATCH AREA

```
Max[Table[Length[Characters[RomanNumeral[n]]], {n, 1, 4, 1}]]
```

Out[ ]= 3

ENTER YOUR CODE HERE

In[ ]:=
```
MaxRomanLength[n_Integer?Positive] :=
Max[Table[Length[Characters[RomanNumeral[x]]], {x, 1, n, 1}]]
```

Submit