6-Problem 16

November 12, 2020

1 Power digit sum

1.1 Problem 16

215 = 32768 and the sum of its digits is 3 + 2 + 7 + 6 + 8 = 26.

What is the sum of the digits of the number 21000?

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[58]: num = 2**1000 num
```

[58]: 10715086071862673209484250490600018105614048117055336074437503883703510511249361 22493198378815695858127594672917553146825187145285692314043598457757469857480393 45677748242309854210746050623711418779541821530464749835819412673987675591655439 46077062914571196477686542167660429831652624386837205668069376

```
[59]: num = str(num)

[60]: suma=0
    for i in num:
        suma+= int(i)
```

La suma de los dígitos de 2^1000 es: 1366

[62]: print("La suma de los dígitos de 2^1000 es:", suma)