

Euler 0016

The Problem:

What is the sum of the digits of 2^{1000} ?

Considerations:

With python we can trivially calculate 2^{1000} and then we can convert it to a string and sum its digits.

The Approach:

We calculate 2^{1000} and then we can convert it to a string and sum its digits.

The Code:

```
power = 1000
number = 2**power

total_sum = 0
for digit in str(number):
    total_sum += int(digit)

print(total_sum)
```

Revision #2

Created 2025-10-30 02:22:03 UTC by Maxwell

Updated 2025-10-30 02:23:13 UTC by Maxwell