Even Fibonacci numbers

Problem 2 (https://projecteuler.net/problem=2)

Each new term in the Fibonacci sequence is generated by adding the previous two terms. By starting with 1 and 2, the first 10 terms will be:

```
1, 2, 3, 5, 8, 13, 21, 34, 55, 89, ...
```

By considering the terms in the Fibonacci sequence whose values do not exceed four million, find the sum of the even-valued terms.

Solution

In [1]:

```
s = 0
a = b = 1
while b <= 4_000_000:
    a, b = b, a + b
    if b % 2 == 0:
        s += b
print(s)
```

```
4613732
```