



NYC DATA SCIENCE
ACADEMY

Basic Programming Elements Homework

Data Science Bootcamp

Question 1

Each new term in the Fibonacci sequence is generated by adding the previous two terms. Starting with 1 and 2, the first 10 Fibonacci numbers are:

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

Consider all the Fibonacci numbers whose values do not exceed four million. Find the sum of even-valued terms among them.

Question 2

The prime factors of 13195 are 5, 7, 13 and 29.

What is the largest prime factor of the number 600851475143 ?



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