

PROBLEM I.6 - FIBONACCI SEQUENCE 2

Allison Davis

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1. All multiples of 4 in the first 50 Fibonacci numbers:

[0, 8, 144, 2584, 46368, 832040, 14930352, 267914296, 4807526976]

2. 33.34% of the first 10,000 Fibonacci terms are even. I found this out by setting $N=10,000$ and $m=2$. I printed the number of terms that were multiples of 2 and then divided that by the total number of terms which was 10,000. This turned out to be 0.3334, or 33.34% .
3. We conjectured that every third Fibonacci term is even.