

## I.6 Fibonacci Sequence 2

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### 1 Conclusions

- All multiples of 4 in the first 50 Fibonacci numbers:

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

- The percentage of the first 10,000 Fibonacci numbers that are even is 33.339. This may not have any relevance but it is almost half of the inverse of the golden ratio (0.6180339...).
- After some experimentation, I created a conjecture of the pattern of Fibonacci numbers that are multiples of  $m$ . It appears that for the element  $m$ , every  $m^{th}$  term following will be divisible by  $m$ .