01204211 Discrete Mathematics Lecture 15: Fibonacci sequence

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The Fibonacci sequence¹



Source: https://en.wikipedia.org/wiki/ File:Fibonacci.jpg In 1202, Leonardo Bonacci (known as Fibonacci) asked the following question.

"[A]ssuming that: a newly born pair of rabbits, one male, one female, are put in a field; rabbits are able to mate at the age of one month so that at the end of its second month a female can produce another pair of rabbits; rabbits never die and a mating pair always produces one new pair (one male, one female) every month from the second month on."

"The puzzle that Fibonacci posed was: how many pairs will there be in one year?"

 $From\ https://en.wikipedia.org/wiki/Fibonacci_number$