

# An Introduction to Linear Algebra

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<https://mathlog.info/articles/1403>

Let  $k \geq 2$  be a natural number. We define a sequence  $\{a_n\}$  by

$$\begin{cases} a_{n+k} = a_{n+k-1} + a_{n+k-2} + \cdots + a_n = \sum_{i=n}^{n+k-1} a_i \\ a_0 = a_1 = \cdots = a_{k-2} = 0 \\ a_{k-1} = 1. \end{cases}$$

We call  $\{a_n\}$  a generalized Fibonacci sequence for  $k$ .

# Bibliography

[1] author, *title of a book*, publisher, year