

The Days of Wine and Roses

$$1 = F$$

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1.

Diagram illustrating the structure of the sequence $\{a_n\}$ for $n \in \mathbb{N}$, showing the distribution of values across different bases.

The diagram shows four vertical bars representing different bases: 6^{-7} , 2^7 , 2^{-7} , and 5^7 .

Each bar is divided into segments, with the length of each segment corresponding to the value of a_n for that n .

The segments are labeled with the values of a_n :

- For 6^{-7} , the segments are labeled 3, 7, and 6.
- For 2^7 , the segments are labeled 2, 1, 7, and 6.
- For 2^{-7} , the segments are labeled 2, 1, 7, and 6.
- For 5^7 , the segments are labeled 2, 1, 7, and 6.