Problem 1 (f-factorization) (5 points)

Describe a linear time algorithm computing $f$-factorization of a string of size $n$.

Assume alphabet is of a constant size and suffix tree or subword graph can be constructed in linear time.

Problem 2 (Subword graphs) (5 points)

Compute magic decompositions of Fibonacci strings $Fib_5$, $Fib_6$, $Fib_7$.

Is there a general formula?