Homework 5

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This report is used to ensure that TAs can execute my file successfully and read codes clearly.

1 Execution

- 1. **Environment** macOS 10.15.6, clang 11.0.3
- 2. Language C++11
- 3. Execution

```
g++ -o hw5 hw5.cpp
2./hw5 sample1.in
```

4. Sample Execution

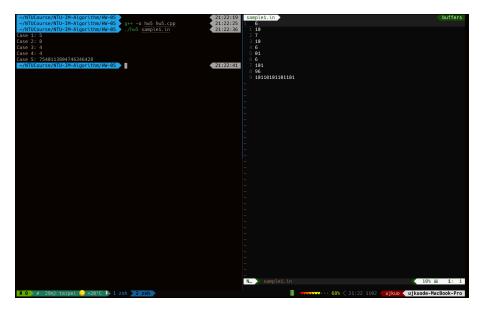


Figure 1: Sample output

2 Algorithm

2.1 Fibonacci Word Sequence

I write a set of functions to generate the Fibonacci word sequence. Functions will follow the rules of Fibonacci Words and generate the sequence recursively. All functions is includes in the class Uva1282. Uva1282 is a virtual online judge for testing this problem.

2.2 Knuth-Morris-Pratt

3 Debug

It's my first time using NDEBUG to test and debug the program. I usually write the definition of DEBUG and used the flag -dDEBUG to print the output in the past, but this time I give it an attempt to use NDEBUG. In addition, I try to use class to pick up the different part of my program and let it be well-readable.