Project 2 Report

System configuration: (Abrar Akhyer Abir's Laptop)

Processor: Intel(R) Core(TM) i7-7660U CPU @ 2.50GHz (4 CPUs), ~2.5GHz

Memory: 16384MB RAM

Construction performance:

Input File	Time (msec)
s1.fas	0.0
s2.fas	0.0
colorblind_human_gene.fasta	107.767
colorblind_mouse_gene.fasta	94.155
chr12.fas	5249.68
Slyco.fas	131218.428
Covid_Wuhan.fasta	860.301
Covid_Brazil.fasta	906.598
Covid_India.fasta	852.247
Covid_Australia.fasta	938.4927
Covid_USA-CA4.fasta	986.0625

Justification:

All the given inputs successfully run with in a reasonable time.

Implementation constant:
In python, there is no pointer. We have used **sys.getsizeof()** to get the size of Node() which python approximate 48.

BWT index:
BWT index is generated in separate files for each input which we have also included in the submission.

Exact matching repeat:

The Exact matching repeat for all inputs are reported in **output_report.txt**