

59H BIOINFORMATICS

Second Assignment

Burrows-Wheeler Transform

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Code can do Burrows Wheeler Transform and Inverse Transform

Before launching make sure you have **pandas** (python library) installed on your computer.
To run python3 is enough.

This code written by following the guides below:

<https://www.geeksforgeeks.org/burrows-wheeler-data-transform-algorithm/>

<https://www.cs.cmu.edu/~ckingsf/bioinfo-lectures/bwt.pdf>

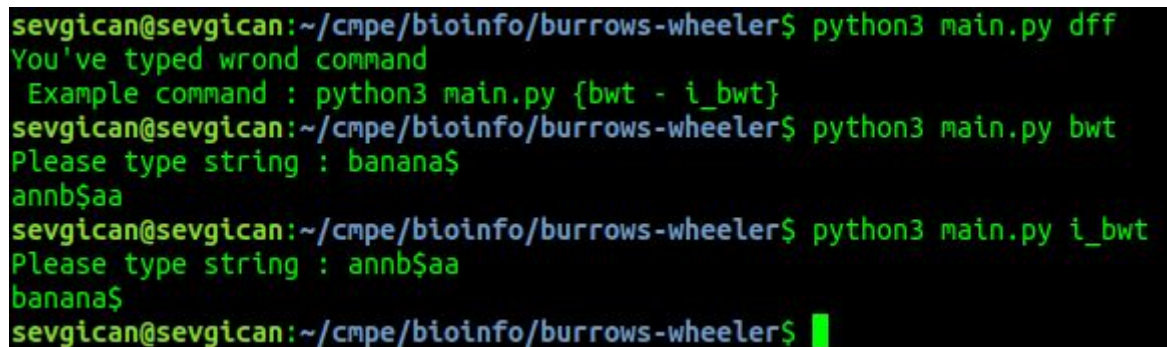
example commands and screenshots:

```
$ python3 main.py bwt
```

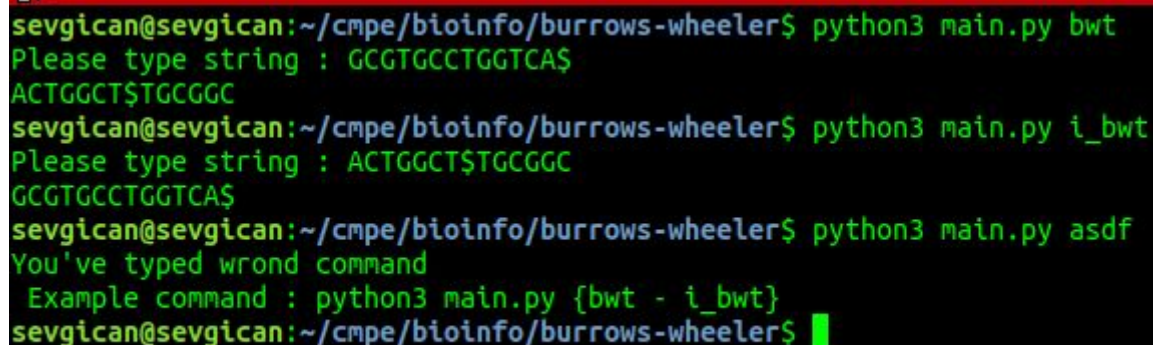
```
>>> banana$
```

```
$ python3 main.py i_bwt
```

```
>>> annb$aa
```



```
sevgican@sevgican:~/cmpe/bioinfo/burrows-wheeler$ python3 main.py dff
You've typed wrond command
Example command : python3 main.py {bwt - i_bwt}
sevgican@sevgican:~/cmpe/bioinfo/burrows-wheeler$ python3 main.py bwt
Please type string : banana$
annb$aa
sevgican@sevgican:~/cmpe/bioinfo/burrows-wheeler$ python3 main.py i_bwt
Please type string : annb$aa
banana$
sevgican@sevgican:~/cmpe/bioinfo/burrows-wheeler$
```



```
sevgican@sevgican:~/cmpe/bioinfo/burrows-wheeler$ python3 main.py bwt
Please type string : GCGTGCCTGGTCAS$
ACTGGCT$TGCGGC
sevgican@sevgican:~/cmpe/bioinfo/burrows-wheeler$ python3 main.py i_bwt
Please type string : ACTGGCT$TGCGGC
GCGTGCCTGGTCAS$
sevgican@sevgican:~/cmpe/bioinfo/burrows-wheeler$ python3 main.py asdf
You've typed wrond command
Example command : python3 main.py {bwt - i_bwt}
sevgican@sevgican:~/cmpe/bioinfo/burrows-wheeler$
```