
StringMatch.py

Usage

```
1 python3 StringMatch.py file|interactive
```

If run in `interactive` mode the program will prompt you for the text and pattern to search for and will output the result of the search. In `file` mode the program will look for and read `input.txt` and will find the pairs of input text and patterns to search for and will output the result of each search to each line of the `output.txt` file.

WordFind.py

Usage

```
1 python3 WordFind.py
```

WordFind will look for and read the file `input_square.txt` and expects input in the following format:

```
1 Number of rows/columns n
2 WORD1 WORD2 ... WORDn # Space separated words
3 WORDn WORDn ... WORDn
4 Target words also space separated
```

And will output the found words in the word square in the file `found_words.txt` in the following format:

```
1 WORD1: [i, j] Direction of the word either:
2   - Horizontal Right
3   - Horizontal Left
4   - Vertical Down
5   - Vertical Up
6   - Diagonal Top Right
7   - Diagonal Bottom Right
8   - Diagonal Top Left
9   - Diagonal Bottom Left
```