

Implement a WordLinkedList class to handle words of a crossword puzzle.

Each node keeps a character and references to previous and next nodes. To link the words, each node may have a reference to a cross node, as well. Cross node reference for the character 'U' in the word "PUZZLES" is the reference of the node containing the character 'U' in the word "FUN"

Your class will include following methods:

- The constructor which gets a string and constructs itself as WordLinkedList.
- Add cross method that adds a cross between itself and another word at specified indexes. Note that the other word should have the corresponding cross, as well.
- Remove cross method that removes a cross at specified index.
- Print method that prints the word, its cross words and cross indexes

Implement a CrossWordPuzzle class. Your class will have a list of WordLinkedList and following methods:

- Add word method that adds a word to the puzzle and its crosses if specified
- Remove word method that removes a word from the puzzle and its crosses
- Print method that prints each word in the puzzle with its cross words and indexes

Write a Main class where the user can add/remove words and print the puzzle words with their cross words and indexes

