

Word Pairs

When a WordPair object is constructed, it processes an array of Strings and stores them as pairs.

For example, here is a Main.java file:

```
public static void main(String[] args){

    String[ ] words = {"love", "green", "oh!", "super", "doubt", "oishi"};

    WordPair wp = new WordPair(words);

    String[] pairs = wp.getWordPairs();

    //call a helper function!
    displayResult(pairs);

} //end of main

//static helper function
public static void displayResult(String[] dataList){

    for(int i = 0; i<dataList.length; i++){
        System.out.println(dataList[i]);
    }

} //end of helper function
```

If we run this program, we will see:

```
"love-green"
"oh!-super"
"doubt-oishi"
```

in the output (note the - between the words).

***precondition:** the original array of words always has an even length

***postcondition:** the length of an array stored in a WordPair object is always half of the original array.

With your partner, analyse the Main.java code. Write down any questions that you still have about it after discussion:

```
public class WordPair{

    //it has one property!
    String[] wordPairs;

    public WordPair(String[] wordList){

        wordPairs = new String[wordList.length/2];

        /*can you continue to code the constructor method.
        Think logically as you develop your algorithm.
        You could use comments to help you think or go to the back page of
        this paper and plan before you start to code. Work with your
        partner and share ideas!*/

    }
}
```

```
    public String[] getWordPairs() {  
        //your code here  
    }  
}  
//end of class
```