## Homework 4

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Source Code:
// Homework4.java
package com;
import containers.Stack;
public class Homework4 {
        // Create three new stacks
        private static Stack<Integer> stack1 = new Stack<Integer>();
        private static Stack<Integer> stack2 = new Stack<Integer>();
        private static Stack<Integer> stackResult = new Stack<Integer>();
        // Implement the addLargeNumber method
        public static void addLargeNumber (String num1, String num2) {
               // Convert input strings to char array
               char[] arraynum1 = num1.toCharArray();
               char[] arraynum2 = num2.toCharArray();
               // Store input strings into stacks
               for(int i = 0; i<arraynum1.length; i++) {</pre>
                       stack1.push(Integer.parseInt(String.valueOf(arraynum1[i])));
               }
               for(int i = 0; i < arraynum2.length; i++) {</pre>
                       stack2.push(Integer.parseInt(String.valueOf(arraynum2[i])));
               }
               // Create variable result
               var result = 0;
               // Add two poped values to result
               while(!stack1.isEmpty() || !stack2.isEmpty()) {
                       if(!stack1.isEmpty()) {
                               result += stack1.pop();
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if(!stack2.isEmpty()) {
                              result += stack2.pop();
                      }
                      stackResult.push(result % 10);
                      result = result / 10;
               }
               // Push the remaining carry part to the result
               if(result != 0) {
                      stackResult.push(result);
               }
               // Print the result stack
               while(!stackResult.isEmpty()) {
                      System.out.print(stackResult.pop());
               }
               System. out.println();
       }
       //main method demostration
       public static void main(String[] args) {
               addLargeNumber("3098", "234");
               addLargeNumber("239420952923", "592323434242");
               addLargeNumber("777777777777", "999");
       }
}
Output:
3332
831744387165
777777778776
```

}

