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CSCI323.25 Designs and Analysis of Algorithms (Spring 2023)

Project1

Simple I/O file in JAVA

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Algorithm Steps:
Step 0: inFile1 open from args[0] outFile1 open from args[1]
 Step 1: processInt (inFile1, outFile1) // see below
Step 2: close all files.

Illustrations:

Source code:

```
import java.io.*;
import java.util.*;

public class CheewinT_Project1 {
	public static String data;
	public static int total;
	public static int count;

	public static void main(String[] args) {
		try {
			Scanner inFile1 = new Scanner(new FileReader(args[0]));

			BufferedWriter outFile1 = new BufferedWriter(new FileWriter(args[1]));

			processInt(inFile1, outFile1);

			inFile1.close();
			outFile1.close();

		} catch (IOException e) {
			// TODO Auto-generated catch block
			e.printStackTrace();
		}


	}

	public static void processInt(Scanner inFile1, BufferedWriter outFile1)
	{
		try {
			outFile1.write("in processInt method");
			total = 0;
			count = 0;
```

```
                    outFile1.write("\n");

                    while(inFile1.hasNext())
                    {
                        data = inFile1.next();
                        outFile1.write(data + " ");
                        total++;
                        count++;
                        if(count >= 5)
                        {
                            outFile1.write("\n");
                            count = 0;
                        }
                    }

                    outFile1.write("\n"+ "The total string count is " + total);

                } catch (IOException e) {
                    // TODO Auto-generated catch block
                    e.printStackTrace();
                }
            }

}
```

Program output:

```
in processInt method
91 322 702 8 999
12 133 14 415 213
23 724 825 226 127
538 29 91 91 91
730 361 637 213 213
388 91 322 73 213
4 95 16 702
The total string count is 34
```