Mark Gameng

HW 6

1. Text files
2. wordcount()
3. if text.isEmpty()
4. Return 0
5. String[] count = text.split(“\\s+”)
6. Return count.length
7. \_\_\_
8. Main
9. Scanner in = new Scanner(System.in);
10. System.out.println("What is the name of the input file?");
11. String file = in.next();
12. File user = new File(file);
13. Scanner txt = new Scanner(user);
14. int words = 0;
15. int lines = 0;
16. String text;
17. StringStats wordsText = new StringStats();
18. while(txt.hasNext()){
19. lines += 1;
20. text = txt.nextLine();
21. wordsText.setLine(text);//sets the line
22. words += wordsText.wordCount();
23. }
24. System.out.print("Total Lines = " + lines + " Total Words = " + words);

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| Test Case | Output | Tested? |
| Shakespeare.txt | Total lines = 14 Total words = 114 | Yes |
| Frost.txt | Total lines = 20 Total words = 144 | yes |
| Single line, multiple words | Total lines = 5 Total words = 24 | Yes |
| Multiple lines, one word per line | Total lines = 11 Total words = 11 | Yes |
| Empty file | Total lines = 0 Total words = 0 | yes |

1. Exams
2. Main method
3. Scanner in = new Scanner(System.in);
4. System.out.print("How many exam scores do you have to enter?");
5. int number = in.nextInt();
6. double total = 0;
7. double scores[] = new double[number];
8. for(int i = 0 ; i < scores.length ; i++){
9. System.out.print("Enter score #" + (i+1) + ":");
10. scores[i] = Math.abs(in.nextDouble());
11. total += scores[i];
12. }
13. double avg = total / number;
14. System.out.println("The average score is: " + avg);
15. int count = 0;
16. for(int i = 0 ; i < scores.length ; i++){
17. if (scores[i] > avg){
18. count += 1;
19. }
20. else{
21. }
22. }
23. System.out.println("There are " + count + " scores larger than the average");

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| Test Case | Output | Tested? |
| 5 exams (95,92,68,72,70) | The average score is 79.4  There are 2 scores larger than the average | Yes |
| 10 exams(0,0,0,95,96,97,98,99,  100,100) | The average score is 68.5  There are 7 scores larger than the average. | Yes |
| 3 exams(100,100,100) | The average score is 100  There are 0 scores larger than the average | Yes |
| 5 exams(-50,100,100,90,95) | The average score is 87  There are 4 scores larger than the average | yes |