**Q1.** Print all word starting from A from the given File.

**Q2.** Print all the words starting with “bab” from the given file.

**Q3.** Write a C++ program that reads first 100 words starting from “C” or “c” from the file and then stores in an array and then prints the contents of the array.

**Q4.** Write a program that reads integers from a file and then prints out their tables up to 10 into another file.

**Sample Input:**

2

5

**Sample Output:**

2x1=2

2x2=4

2x3=6

2x4=8

2x5=10

2x6=12

2x7=14

2x8=16

2x9=18

2x10=20

5x1=5

5x2=10

5x3=15

5x4=20

5x5=25

5x6=30

5x7=35

5x8=40

5x9=45

5x10=50

**Q5.** This problem requires you to write a very simple program which will print ‘Hello World’ n times.

**Input:** The input will be read from a file and start with an integer T which represents number of test cases in the file. T lines follow. Each line containing integer n.

**Output**: For each test case, your program should print n lines of ‘Hello World’ followed by a blank line.

**Sample Input**

3

3

2

4

**Sample Output**:

Hello World

Hello World

Hello World

Hello World

Hello World

Hello World

Hello World

Hello World

Hello World

**Q6.** Write a program that reads a student name followed by five test scores. The program should output the student name, the five test scores, and the average test score. The data to be read is stored in a file called test.txt. The output should be stored in a file called testavg.txt.

**Input**: A file containing the student name and the five test scores. A sample input is:

AndrewMiller,87.50,89,65.75,37,98.50

**Output**: The student name, the five test scores, and the average of the five test scores, saved to a file.

Name: AndrewMiller

Subject1: 87.50

Subject2: 89

Subject3L 65.75

Subject4: 37

Subject5: 98.50

Average Marks: ????

**Q7.** Suppose that the file inData.txt contains the following data:

10.20 5.35

15.6

RandyGill 31

18500 3.5

A

The numbers in the first line represent the length and width, respectively, of a rectangle. The number in the second line represents the radius of a circle. The third line contains the first name, last name, and the age of a person. The first number in the fourth line is the savings account balance at the beginning of the month, and the second number is the percentage increase in the salary. The fifth line contains an uppercase letter between A and Y (inclusive). Write a program so that after the program executes, the contents of the file outData.txt are as shown below. If necessary, declare additional variables. Your statements should be general enough so that if the content of the input file changes and the program is run again (without editing and recompiling), it outputs the appropriate results.

Rectangle: Length = 10.20, width = 5.35, area = 54.57, parameter = 31.10

Circle: Radius = 15.60, area = 764.54, circumference = 98.02

Name: RandyGill, age: 31

Beginning balance = $18500.00, percentage increase = 3.50 Balance at the end of the month = $19147.5

The character that comes after A in the ASCII set is: B

**Q8.** Daenerys has just arrived at her ancestral home, The Dragonstone, and wants to invade Westeros as soon as possible without wasting any time. Tyrion, hand of the queen, advises her to attack the enemy from all possible directions. As there are many different tribes in Daenerys’ army i.e. Dothraki, Unsullied and Dornish. Tyrion wants to use each of them in different locations. To finalize his plan, he needs to know how many men each tribe has. Grey Worm is sent to count the men in each tribe and return back as soon as possible. He, along with Massandi, goes to army camps and writes the names of each man and the name of his tribe. They ended up with hundreds of names which are not in any particular order and they have also realized that they have written some names multiple times. Counting names from this list manually is a very time consuming task and also there are chances of error while detecting the duplicates because any duplicates should only be counted once. To avoid any chance of error they need help from someone very good in such skills. A raven arrived at UET asking for help to count men in each tribe and also detect possible duplicates. The queen is waiting for our reply and we want you to write a program for this so that we can reply as soon as possible.

**Input**: Input will be read from a file. First line of input will be an integer T representing the number of test cases. Each test case starts with a number N. Next N lines have a string containing the name of the tribe followed by the name of a man. You can assume that the name of the tribe will always be of one word.

**Output**: Output will be written to a file. For each test case, output a string ‘Case: #’ where # represent case number. Next lines will contain, in alphabetical order, the tribe name and number of men in that tribe separated by a space. There will be an empty line between each test case output.

**Sample Input**:

1

3

Dothraki Drogon

Unsullied GreyWorm

Dothraki Drogo

**Sample Output**

Case: 1

Dothraki 2

Unsullied 1