## Java Internship Entrance Test - 30 minutes

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1. Write a Java program to count the number of words ending in 'm' or 'n' (not case sensitive).

Sample Output

The given string is: man is in the room

The number of words ends eith m or n is: 3

**public static void main(String...args ) {**

**String data = “man is in the room”;**

**int count = 0;**

**String[] strArray = data.split(“ ”);**

**for (String str : strArray) {**

**if (str.endWith(“n”) || str.endWith(“m”)) {**

**count++;**

**}**

**}**

**return count;**

**}**

2. Write a Java program to find all of the longest word in a given dictionary. Example-1:

{

"cat",

"flag",

"green",

"country",

"w3resource"

}

Result: "w3resource"

Example-2:

{

"cat",

"dog",

"red",

"is",

"am"

}

Result: "cat", "dog", "red"

**public static void main(String...args) {**

**String[] words = {"cat","flag","green","country","w3resource"};**

**int longest = words[0].length();**

**for (String word : words) {**

**int length = word.length();**

**if (length > longest)**

**longest = length;**

**}**

**for (String word : words) {**

**int length = word.length();**

**if (length == longest)**

**System.out.println(word);**

**}**

**}**

3. Write a Java program to sort an array of given integers

**public void sort(Integer...ints) {**

**for (int i = 0; i < ints.length; i++) {**

**for (int j = i; j < ints.length; j++) {**

**if (ints[i] > ints[j]) {**

**Integer temp = ints[j];**

**ints[j] = ints[i];**

**ints[i] = temp;**

**}**

**}**

**}**

**}**

4. Write a SQL statement to find the highest purchase amount on a date '2012-08-17' for each salesman with their ID

ord\_no purch\_amt ord\_date customer\_id salesman\_id

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70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007

70013 3045.6 2012-04-25 3002 5001

**SELECT purch\_amt FROM bill**

**WHERE**

**salesman\_id = ? AND**

**ord\_date = ‘2012-08-17’ AND**

**purch\_amt = ( SELECT max(purch\_amt) FROM bill )**