



Day 28: RegEx, Patterns, and Intro to Databases



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Objective

Today, we're working with regular expressions. Check out the [Tutorial](#) tab for learning materials and an instructional video!

Task

Consider a database table, *Emails*, which has the attributes *First Name* and *Email ID*. Given N rows of data simulating the *Emails* table, print an alphabetically-ordered list of people whose email address ends in *@gmail.com*.

Input Format

The first line contains an integer, N , total number of rows in the table.

Each of the N subsequent lines contains 2 space-separated strings denoting a person's first name and email ID, respectively.

Constraints

- $2 \leq N \leq 30$
- Each of the first names consists of lower case letters $[a - z]$ only.
- Each of the email IDs consists of lower case letters $[a - z]$, $@$ and $.$ only.
- The length of the first name is no longer than 20.
- The length of the email ID is no longer than 50.

Output Format

Print an alphabetically-ordered list of first names for every user with a gmail account. Each name must be printed on a new line.

Sample Input

```
6
riya riya@gmail.com
julia julia@julia.me
julia sjulia@gmail.com
julia julia@gmail.com
samantha samantha@gmail.com
tanya tanya@gmail.com
```

Sample Output

```
julia
julia
riya
samantha
tanya
```

Medium

Submitted 17695 times
Max Score 30

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Current Buffer (saved locally, editable)

Java 8



```
1 import java.io.*;
2 import java.util.*;
3 import java.util.regex.Matcher;
4 import java.util.regex.Pattern;
5
6 public class Solution {
7
8     public static void main(String[] args) {
9         /* Enter your code here. Read input from STDIN.
10          Print output to STDOUT. Your class should be named Solution. */
11
12         /*
13          1. scan N = number of entries
14          2. store entries into a string array
15          3. print entries that has @gmail.com in them
16          */
17
18         Scanner sc = new Scanner(System.in);
19
20         Pattern p = Pattern.compile("\\p{Alpha}+");
21
22         int N = sc.nextInt();
23         sc.nextLine();
24
25         String[] ar = new String[N];
26         for (int i = 0; i < N; i++) {
27             ar[i] = sc.nextLine();
28         }
29
30         String myString;
31         ArrayList<String> L = new ArrayList<>();
32         for (int i = 0; i < N; i++) {
33             myString = ar[i];
34             Matcher m = p.matcher(myString);
35
36             if (m.find() && myString.contains("@gmail.com")) {
37                 L.add(m.group());
38             }
39         }
40     }
41 }
```

```
39
40     }
41
42     L.sort(String::compareToIgnoreCase);
43
44     for (String s :
45         L) {
46         System.out.println(s);
47     }
48
49 }
50 }
```

Line: 20 Col: 1

[Upload Code as File](#)☐ Test against custom input

Run Code

Submit Code

Testcase 0 **Congratulations, you passed the sample test case.**Click the **Submit Code** button to run your code against all the test cases.**Input (stdin)**

```
6
riya riya@gmail.com
julia julia@julia.me
julia sjulia@gmail.com
julia julia@gmail.com
samantha samantha@gmail.com
tanya tanya@gmail.com
```

Your Output (stdout)

```
julia
julia
riya
samantha
tanya
```

Expected Output

```
julia
julia
riya
samantha
tanya
```

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