



















Dashboard > Tutorials > 30 Days of Code > Day 28: RegEx, Patterns, and Intro to Databases

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 *Qgmail.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 < N < 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.

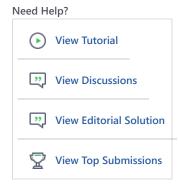
Sample Input

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





Download problem statement

Download sample test cases

Suggest Edits

f ⊌ in

```
Current Buffer (saved locally, editable) & 40
                                                                                 Java 8
                                                                                                               Ö
1 ▼ import java.io.*;
    import java.util.*;
    import java.util.regex.Matcher;
4
    import java.util.regex.Pattern;
5
6
   ▼ public class Solution {
7
8
        public static void main(String[] args) {
            /* Enter your code here. Read input from STDIN.
9
10
            Print output to STDOUT. Your class should be named Solution. */
11
12 •
13
            1. scan N = number of entries
14
             2. store entries intp a string array
15
             3. print entries that has @gmail.com in them
16
17
18
            Scanner sc = new Scanner(System.in);
19
            Pattern p = Pattern.compile("\\p{Alpha}+");
20
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
                 if (m.find() && myString.contains("@gmail.com")) {
36
37
                     L.add(m.group());
38
```

```
39
40
               }
41
42
               L.sort(String::compareToIgnoreCase);
43
               for (String s:
44
45
                         L) {
46
                    System.out.println(s);
47
48
49
50
                                                                                                                          Line: 20 Col: 1
                                                                                                              Run Code
1 Upload Code as File
                        Test against custom input
                                                                                                                            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
```

Your Output (stdout)

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

julia
julia
riya
samantha
tanya

Expected Output

julia
julia
riya
samantha
tanya

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