

Hexaware Coding Challenge Plan Day - 4

Problem - 1 String Validators

HackerRank Prepare > Python > Strings > String Validators

Output Format

In the first line, print `True` if `S` has any alphanumeric characters. Otherwise, print `False`.

In the second line, print `True` if `S` has any alphabetical characters. Otherwise, print `False`.

In the third line, print `True` if `S` has any digits. Otherwise, print `False`.

In the fourth line, print `True` if `S` has any lowercase characters. Otherwise, print `False`.

In the fifth line, print `True` if `S` has any uppercase characters. Otherwise, print `False`.

Sample Input

```
qA2
```

Sample Output

```
True
True
True
True
True
```

Test Results:

- Test case 0: Success
- Test case 1: Success
- Test case 2: Success
- Test case 3: Success
- Test case 4: Success
- Test case 5: Success

Compiler Message: Success

Input (stdin): qA2

Expected Output:

```
1 True
2 True
3 True
4 True
5 True
```

Conratulations

You have earned 10.00 points! You are now 35 points away from the 4th star for your python badge. 68% 185/220

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#) [Next Challenge](#)

Problem - 2 String Formatting

HackerRank Prepare > Python > Strings > String Formatting

Problem

Given an integer, `n`, print the following values for each integer `i` from 1 to `n`:

1. Decimal
2. Octal
3. Hexadecimal (capitalized)
4. Binary

Function Description

Complete the `print_formatted` function in the editor below.

`print_formatted` has the following parameters:

- `int number`: the maximum value to print

Prints

The four values must be printed on a single line in the order specified above for each `i` from 1 to `number`. Each value should be space-padded to match the width of the binary value of `number` and the values should be separated by a single space.

Input Format

A single integer denoting `n`.

Constraints

- $1 \leq n \leq 99$

Sample Input

```
5
```

Test Results:

- Test case 0: Success
- Test case 1: Success
- Test case 2: Success
- Test case 3: Success

Compiler Message: Success

Input (stdin): 2

Expected Output:

```
1 1 1 1 1
2 2 2 2 10
```

Conratulations

You have earned 10.00 points! You are now 25 points away from the 4th star for your python badge. 77% 195/220

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#) [Next Challenge](#)

Problem - 3 Introduction to Sets

Pr

Submissions

Leaderboard

Discussions

HackerRank

[Prepare](#) > [Python](#) > [Sets](#) > [Introduction to Sets](#)

Task

Now, let's use our knowledge of sets and help Mickey.

Ms. Gabriel Williams is a botany professor at District College. One day, she asked her student Mickey to compute the average of all the plants with distinct heights in her greenhouse.

Formula used:

$$\text{Average} = \frac{\text{Sum of Distinct Heights}}{\text{Total Number of Distinct Heights}}$$

Function Description

Complete the average function in the editor below.

average has the following parameters:

- int arr: an array of integers

Returns

- float: the resulting float value rounded to 3 places after the decimal

Input Format

The first line contains the integer, N , the size of arr .

The second line contains the N space-separated integers, $arr[i]$.

Constraints

$0 < N \leq 100$

Python

★★★★

You have earned 10.00 points!

You are now 15 points away from the 4th star for your python badge.

86%

205/220

Congratulations

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

Next Challenge

✓ Test case 0

✓ Test case 1

✓ Test case 2

✓ Test case 3

✓ Test case 4

✓ Test case 5

Compiler Message

Success

Input (stdin)

1 10
2 161 182 161 154 176 170 167 171 170 174

Expected Output

1 169.375

Problem - 4 Default Arguments

Problem

Submissions

Leaderboard

Discussions

HackerRank

Prepare > Python > Debugging > Default Arguments

In this challenge, the task is to debug the existing code to successfully execute all provided test files.

Python supports a useful concept of default argument values. For each keyword argument of a function, we can assign a default value which is going to be used as the value of said argument if the function is called without it. For example, consider the following increment function:

```
def increment_by(n, increment=1):  
    return n + increment
```

The function works like this:

```
>>> increment_by(5, 2)  
7  
>>> increment_by(4)  
5  
>>>
```

Debug the given function `print_from_stream` using the default value of one of its arguments.

The function has the following signature:

```
def print_from_stream(n, stream)
```

You have earned 30.00 points!

You are now 165 points away from the gold level for your python badge.

8%

235/400

Congratulations

You solved this challenge. Would you like to challenge your friends?

[f](#)[t](#)[in](#)

Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

```
1 odd 2  
2 even 3  
3 odd 5
```

Expected Output

```
1 1  
2 3  
3 0  
4 2  
5 4  
6 1  
7 3  
8 6
```

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Problem - 5 Word Order

HackerRank

Prepare > Python > Collections > Word Order

Exit Full Screen View

Problem

Submissions

Leaderboard

Discussions

You are given n words. Some words may repeat. For each word, output its number of occurrences. The output order should correspond with the input order of appearance of the word. See the sample input/output for clarification.

Note: Each input line ends with a `"\n"` character.

Constraints:

- $1 \leq n \leq 10^5$
- The sum of the lengths of all the words do not exceed 10^6
- All the words are composed of lowercase English letters only.

Input Format

The first line contains the integer, n .

The next n lines each contain a word.

Output Format

Output 2 lines.

On the first line, output the number of distinct words from the input.

On the second line, output the number of occurrences for each distinct word according to their appearance in the input.

Sample Input

```
4
bcdef
abcdefg
bcde
```

You have earned 50.00 points!

You are now 115 points away from the gold level for your python badge.

36%

285/400

Congratulations

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Compiler Message

Success

Input (stdin)

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Expected Output

Download

```
1 4
2 bcdef
3 abcdefg
4 bcde
5 bcdef
```

```
1 3
```