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Dashboard › C++ › Classes › Inherited Code   Points: 260.00 Rank: 11635

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Inherited Code 🔖

by **Dalimil**

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You inherited a piece of code that performs username validation for your company's website. The existing function works reasonably well, but it throws an exception when the username is too short. Upon review, you realize that nobody ever defined the exception.

The inherited code is provided for you in the locked section of your editor. Complete the code so that, when an exception is thrown, it prints `Too short: N` (where N is the length of the given username).

Input Format

The first line contains an integer, T, the number of test cases.
Each of the T subsequent lines describes a test case as a single username string, U.

Constraints

- $1 \leq T \leq 1000$
- $1 \leq |U| \leq 100$
- The username consists only of uppercase and lowercase letters.

Output Format

You are not responsible for directly printing anything to stdout. If your code is correct, the locked stub code in your editor will print either `Valid` (if the username is valid), `Invalid` (if the username is invalid), or `Too short: N` (where N is the length of the too-short username) on a new line for each test case.

Sample Input

```
3
Peter
Me
Arxwwz
```

Sample Output

```
Valid
Too short: 2
Invalid
```

Explanation

Username `Me` is too short because it only contains 2 characters, so your exception prints **`Too short: 2`**.
All other validation is handled by the locked code in your editor.

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Submissions: 7809
Max Score: 30
Difficulty: Medium

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More

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Current Buffer (saved locally, editable)   ⑂ ◷   C++ ▾   ⤢ ⚙

```cpp
 1 ▸ #include ↔
 5   using namespace std;
 6
 7 ▾ /* Define the exception here */
 8 ▾ struct BadLengthException : public runtime_error {
 9       BadLengthException(int n) : runtime_error(to_string(n)) {}
10   };
11
12
13
14 ▾ bool checkUsername(string username) {
15       bool isValid = true;
16       int n = username.length();
17 ▾     if(n < 5) {
18           throw BadLengthException(n);
19       }
20 ▾     for(int i = 0; i < n-1; i++) {
21 ▾         if(username[i] == 'w' && username[i+1] == 'w') {
22               isValid = false;
23           }
24       }
25       return isValid;
26   }
27
28 ▾ int main() {
29       int T; cin >> T;
30 ▾     while(T--) {
31           string username;
32           cin >> username;
33 ▾         try {
34               bool isValid = checkUsername(username);
35 ▾             if(isValid) {
36                   cout << "Valid" << '\n';
37 ▾             } else {
38                   cout << "Invalid" << '\n';
39               }
40 ▾         } catch (BadLengthException e) {
41               cout << "Too short: " << e.what() << '\n';
42           }
43       }
44       return 0;
45   }
```

Line: 8 Col: 1

⬆ <u>Upload Code as File</u>   ☐ Test against custom input   Run Code   Submit Code

Congrats, you solved this challenge!

✔ Test Case #0	✔ Test Case #1	✔ Test Case #2
✔ Test Case #3	✔ Test Case #4	✔ Test Case #5
✔ Test Case #6	✔ Test Case #7	✔ Test Case #8
✔ Test Case #9		

You've earned 30.00 points!   Next Challenge

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