



Experiment2.1

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Branch: B.E(CSE)

Semester: Fifth

Subject Name: AP LAB 1

UID: 22BCS12648

Section/Group: IOT_627-B

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Subject Code: 22CSP-314

- 1. Aim:** A pangram is a string that contains every letter of the alphabet. Given a sentence determine whether it is a pangram in the English alphabet. Ignore case. Return either pangram or not pangram as appropriate.
- 2. Objective:** Determine if a sentence contains every letter of the English alphabet. Return "pangram" or "not pangram".

3. Implementation/Code :-

```
string pangrams(string s) {  
    transform(s.begin(), s.end(), s.begin(), ::tolower);  
    int freq[26] = {0};  
    for (int i = 0; i < s.length(); i++) {  
        if (s[i] >= 'a' && s[i] <= 'z') {  
            freq[s[i] - 'a']++;  
        }  
    }  
    for (auto i : freq) {  
        if (i == 0) {  
            return "not pangram";  
        }  
    }  
    return "pangram";  
}
```

```
Change Theme Language C++14
1  #include <bits/stdc++.h>
2
3  using namespace std;
4  string pangrams(string s) {
5      transform(s.begin(), s.end(), s.begin(), ::tolower);
6      int freq[26] = {0};
7      for (int i = 0; i < s.length(); i++) {
8          if (s[i] >= 'a' && s[i] <= 'z') {
9              freq[s[i] - 'a']++;
10         }
11     }
12     for (auto i : freq) {
13         if (i == 0) {
14             return "not pangram";
15         }
16     }
17     return "pangram";
18 }
19
```

4. Output :-

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

✔ Sample Test case 0

✔ Sample Test case 1

Input (stdin)[Download](#)

1 We promptly judged antique ivory buckles for the next prize

Your Output (stdout)

1 pangram

Expected Output[Download](#)

1 pangram

5. Time Complexity: $O(n)$

PROBLEM 2

1. Aim: There is a sequence of words in CamelCase as a string of letters, having the following properties:

- It is a concatenation of one or more words consisting of English letters.
- All letters in the first word are lowercase.
- For each of the subsequent words, the first letter is uppercase and rest of the letters are lowercase.

Given s , determine the number of words in s .

2.Objective: The objective is to determine the number of words in a CamelCase string by counting the occurrences of uppercase letters, which indicate the start of new words, and including the first lowercase word.

3.Implementation/Code :-

```
int camelcase(string s) {  
    int count = 1;  
    for (int i = 0; i < s.length(); i++) {  
        if (s[i] >= 'A' && s[i] <= 'Z') {  
            count++;  
        }  
    }  
    return count;  
}
```



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```
Change Theme Language C++14

1  #include <bits/stdc++.h>
2  using namespace std;
3
4
5  int camelcase(string s) {
6      int count = 1;
7      for (int i = 0; i < s.length(); i++) {
8          if (s[i] >= 'A' && s[i] <= 'Z') {
9              count++;
10         }
11     }
12     return count;
13 }
14
```

4. Output :-

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

Compiler Message

Success

Input (stdin) [Download](#)

```
saveChangesInTheEditor
```

Expected Output [Download](#)

```
5
```

5. Time Complexity: $O(n)$