Accenture Sections	Information	Questions and Time
Cognitive Ability	• English Ability • Critical Thinking and Problem Solving • Abstract Reasoning	50 Ques in 50 mins
Technical Assessment	• Common Application and MS Office • Pseudo Code • Fundamental of Networking, Security and Cloud	40 Ques in 40 mins
Coding Round	• C • C++ • Dot Net • JAVA • Python	2 Ques in 45 mins

DEBUG WITH SHUBHAM

Accenture Technical Assessment Detailed Overview

29-sep-2024 Coding Interview Questions


https://www.youtube.com/@DebugWithShubham


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https://www.instagram.com/debugwithshubham/


https://topmate.io/debugwithshubham


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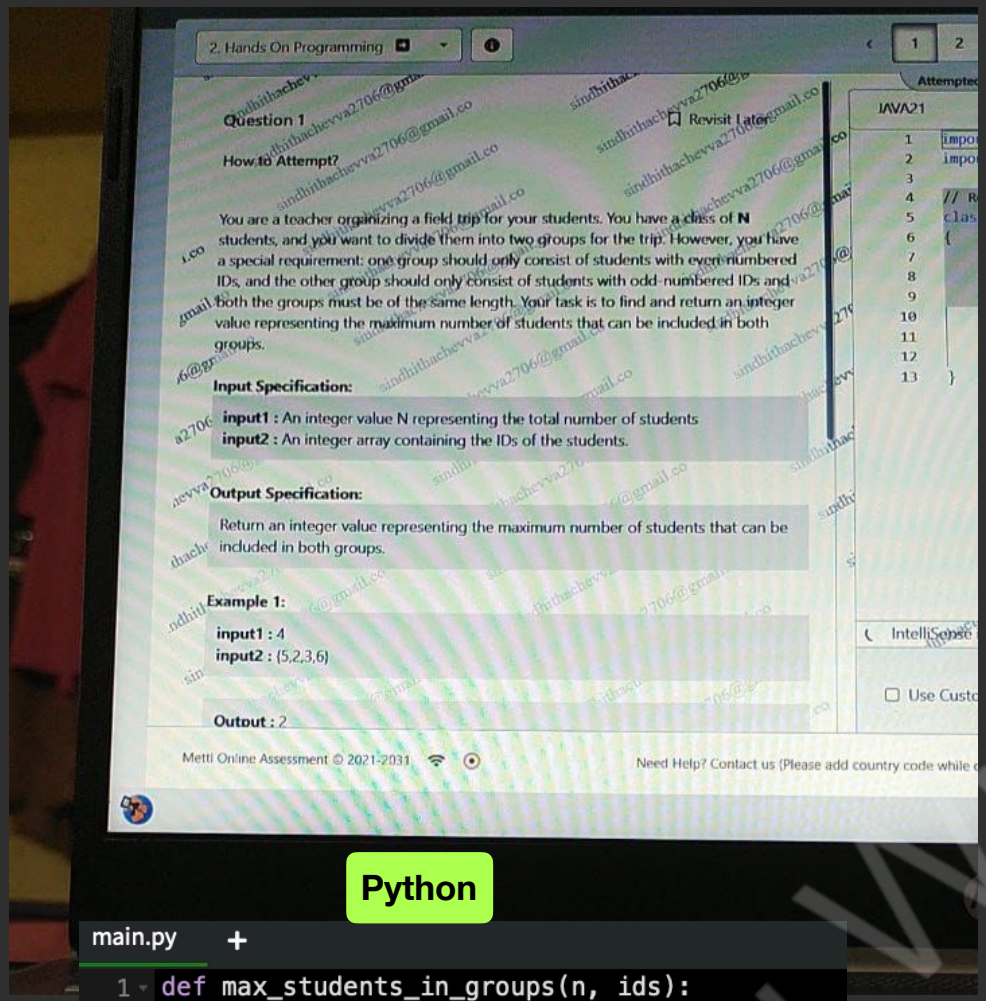
Question-1



Python

main.py

```python
def max_students_in_groups(n, ids):
    even_count = 0
    odd_count = 0
    for student in ids:
        if student % 2 == 0:
            even_count += 1
        else:
            odd_count += 1
    return min(even_count, odd_count)
n = 4
ids = [5, 2, 3, 6]
result = max_students_in_groups(n, ids)
print(result)  # Output: 2
```

JAVA

Main.java

```java
public class Main {
    public static int maxStudentsInGroups(int n, int[] ids) {
        int evenCount = 0;
        int oddCount = 0;
        for (int student : ids) {
            if (student % 2 == 0) {
                evenCount++;
            } else {
                oddCount++;
            }
        }
        return Math.min(evenCount, oddCount);
    }
    public static void main(String[] args) {
        int n = 4;
        int[] ids = {5, 2, 3, 6};

        int result = maxStudentsInGroups(n, ids);
        System.out.println(result);
    }
}

```

C++

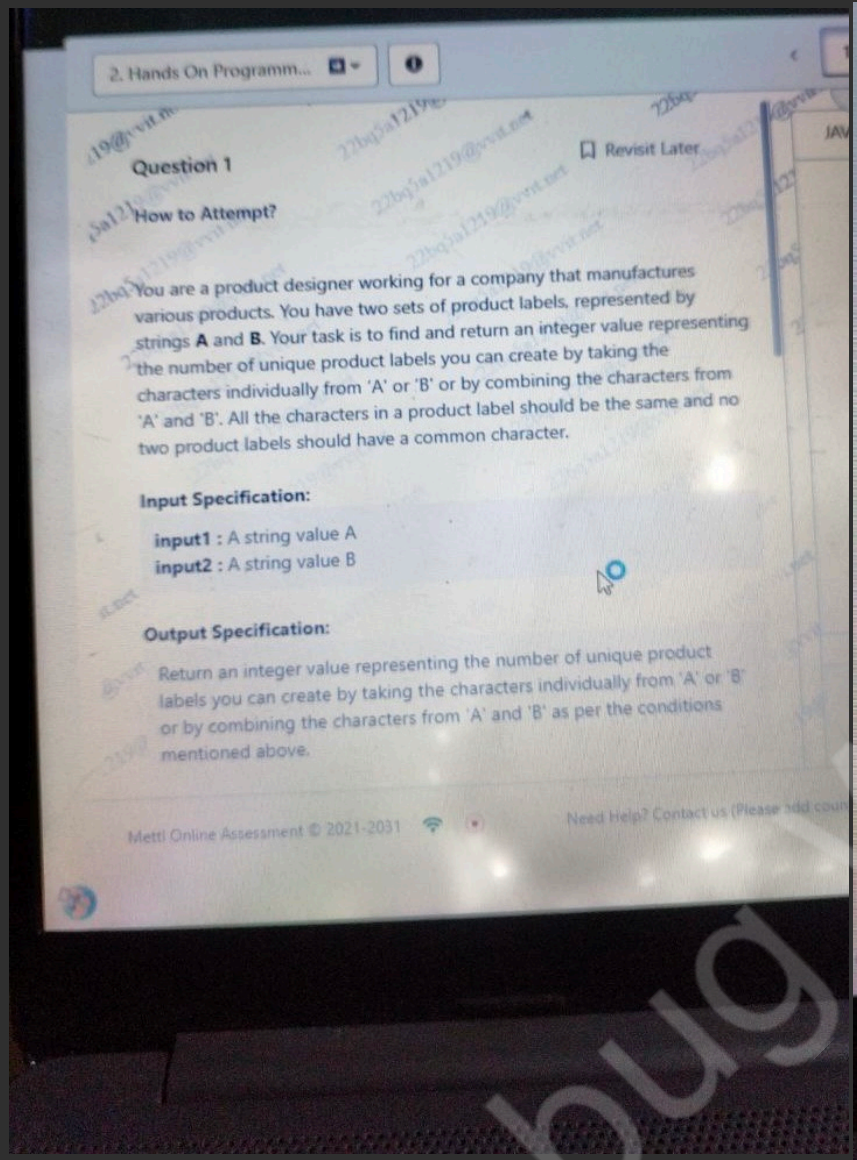
main.cpp

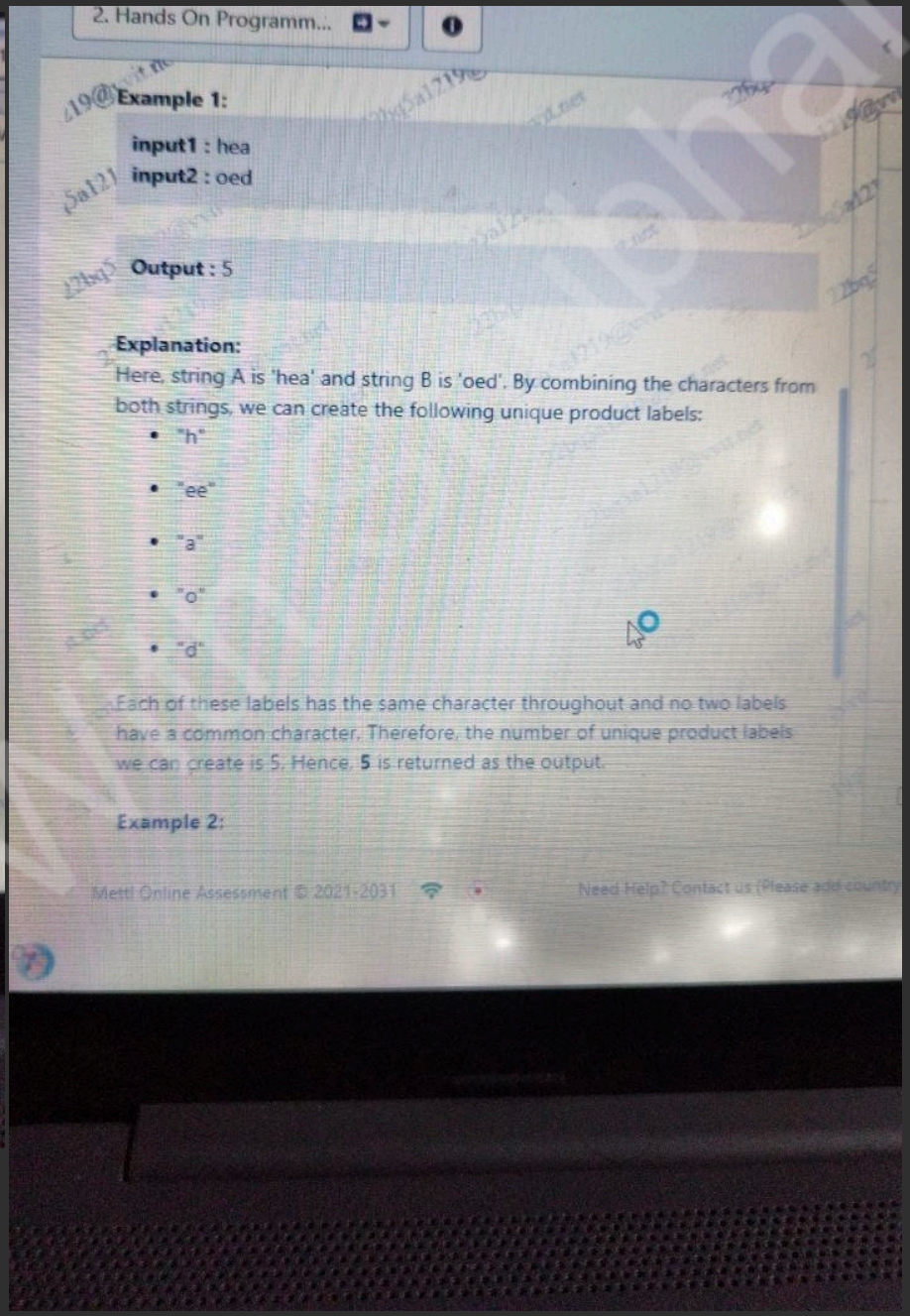
```cpp
#include <iostream>
#include <algorithm>
using namespace std;
int maxStudentsInGroups(int n, int ids[]) {
    int evenCount = 0, oddCount = 0;
    for (int i = 0; i < n; i++) {
        if (ids[i] % 2 == 0) {
            evenCount++;
        } else {
            oddCount++;
        }
    }
    return min(evenCount, oddCount);
}

int main() {
    int n = 4;
    int ids[] = {5, 2, 3, 6};
    int result = maxStudentsInGroups(n, ids);
    cout << result << endl;
    return 0;
}

```

Question-2





Brute-Force Solution

main.py

```python
def unique_product_labels(A: str, B: str) -> int:
    set_A = set(A)
    set_B = set(B)
    unique_labels = set_A.union(set_B)
    return len(unique_labels)
input1 = "heaa"
input2 = "oed"
output = unique_product_labels(input1, input2)
print(output)  # Expected Output: 5
```

Main.java

```java
import java.util.HashSet;
public class Main {
    public static int uniqueProductLabels(String A, String B) {
        HashSet<Character> setA = new HashSet<>();
        HashSet<Character> setB = new HashSet<>();
        for (char ch : A.toCharArray()) {
            setA.add(ch);
        }
        for (char ch : B.toCharArray()) {
            setB.add(ch);
        }
        setA.addAll(setB);
        return setA.size();
    }
    public static void main(String[] args) {
        String input1 = "heaa";
        String input2 = "oed";
        int output = uniqueProductLabels(input1, input2);
        System.out.println(output);
    }
}
```

main.cpp

```cpp
#include <iostream>
#include <set>
using namespace std;

int uniqueProductLabels(string A, string B) {
    set<char> setA(A.begin(), A.end());
    set<char> setB(B.begin(), B.end());
    setA.insert(setB.begin(), setB.end());
    return setA.size();
}
int main() {
    string input1 = "heaa";
    string input2 = "oed";
    int output = uniqueProductLabels(input1, input2);
    cout << output << endl;
    return 0;
}
```

Optimal Case Solution

Python

main.py

```python
def unique_product_labels_v2(A: str, B: str) -> int:
    freq = [0] * 26
    for char in A:
        freq[ord(char) - ord('a')] = 1
    for char in B:
        freq[ord(char) - ord('a')] = 1
    return sum(freq)

input1 = "abc"
input2 = "def"
output = unique_product_labels_v2(input1, input2)
print(output)
```

JAVA

Main.java

```java
public class Main {
    public static int uniqueProductLabelsV2(String A, String B) {
        int[] freq = new int[26];
        for (char ch : A.toCharArray()) {
            freq[ch - 'a'] = 1;
        }
        for (char ch : B.toCharArray()) {
            freq[ch - 'a'] = 1;
        }
        int sum = 0;
        for (int count : freq) {
            sum += count;
        }
        return sum;
    }
    public static void main(String[] args) {
        String input1 = "abc";
        String input2 = "def";
        int output = uniqueProductLabelsV2(input1, input2);
        System.out.println(output);
    }
}
```

C++

main.cpp

```cpp
#include <iostream>
#include <string>
using namespace std;
int uniqueProductLabelsV2(const string& A, const string& B) {
    int freq[26] = {0};
    for (char ch : A) {
        freq[ch - 'a'] = 1;
    }
    for (char ch : B) {
        freq[ch - 'a'] = 1;
    }
    int sum = 0;
    for (int i = 0; i < 26; i++) {
        sum += freq[i];
    }
    return sum;
}
int main() {
    string input1 = "abc";
    string input2 = "def";
    int output = uniqueProductLabelsV2(input1, input2);
    cout << output << endl;
    return 0;
}
```