Name: Jay Chotalia SAP ID: 60009210027 CSE (DS) DIV: A

DJS COMPUTE - Competitive Programming

Problem 1:

Code:

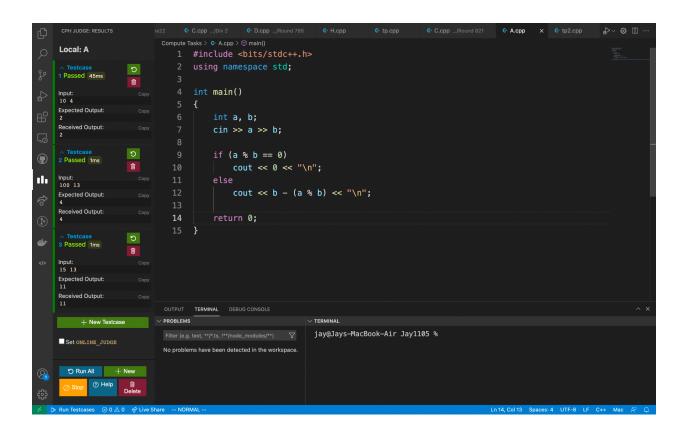
```
#include <bits/stdc++.h>
using namespace std;

int main()
{
    int a, b;
    cin >> a >> b;

    if (a % b == 0)
        cout << 0 << "\n";
    else
        cout << b - (a % b) << "\n";

    return 0;
}
```

Output:



Problem 2:

Code:

```
#include <bits/stdc++.h>
using namespace std;
int main()
  string a, b;
  cin >> a >> b;
  map<char, int> mp;
  char ans;
  for (int i = 0; i < a.size(); i++)
     mp[a[i]]++;
  for (int i = 0; i < b.size(); i++)
     mp[b[i]]--;
     if\ (mp[b[i]]<0)
        ans = b[i];
  }
  cout << ans << "\n";
```

```
return 0;
}
```

Output:

Problem 3:

Code:

```
#include <bits/stdc++.h>
using namespace std;
int main()
{
  int n;
  cin >> n;
  vector<int> a(n);
  for (int i = 0; i < n; i++)
     cin >> a[i];
  if (n == 1)
     cout << -1 << "\n";
  else
  {
     vector<int> b(n);
     for (int i = 0; i < n; i++)
        if (i == n - 1)
          b[i] = i + 1;
```

```
else if (a[i] != i + 1)
           b[i] = i + 1;
        else
           int temp = i + 2;
           b[i] = temp;
           temp -= 1;
           j++;
           b[i] = temp;
     }
     if (b[n - 1] == a[n - 1])
        int temp = b[n - 1];
        b[n - 1] = b[n - 2];
        b[n - 2] = temp;
     for (int i = 0; i < n; i++)
        cout << b[i] << " ";
     cout << "\n";
   return 0;
}
```

Output:

```
© C.cpp Compute Tasks × ♣> ✓ ∰ 🗓
       Local: C

    ∧ Testcase
    1 Passed 97ms

                                             using namespace std;
      Input:
3
1 2 3
                                              int main()
      Expected Output:
2 3 1
      Received Output:
2 3 1
                                                    vector<int> a(n);
      Testcase2 Passed 1ms
ılı

√ Testcase
3 Passed 1ms

                          c
                                                    if (n == 1)
                                                         cout << -1 << "\n";
       Received Output:
                                                          for (int i = 0; i < n; i++)

√ Testcase
5 Passed 0ms

                          C
                                                                                 jay@Jays-MacBook-Air Jay1105 %
       ♡ Run All + New
```