July'25 Programming Contest for Absolute Beginner by Shohoj Coding

Solution

1. Difference for Beginners

Code:

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

int main()
{
    ios_base::sync_with_stdio(false);
    cin.tie(nullptr);

    int x, y, z;
    cin >> x >> y >> z;
    cout << "DIFFERENCE = " << (x + z) - y << nl;

    return 0;
}
```

2. Who Assigned Me?

Code:

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

int main()
{
    ios_base::sync_with_stdio(false);
    cin.tie(nullptr);
```

```
    int n;
    cin >> n;
    int ar[n + 1];
    for (int i = 1; i <= n; i++)
    {
        int a;
        cin >> a;
        ar[a] = i;
    }
    for (int i = 1; i <= n; i++)
    {
        cout << ar[i] << ' ';
    }
    cout << nl;

    return 0;
}
```

3. Maximize Lucky Score

Code:

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

int main()
{
    ios_base::sync_with_stdio(false);
    cin.tie(nullptr);

    int n;
    cin >> n;

    if (n == 0)
        cout << -1 << nl;
    else
        cout << string(n, '7') << nl;
    return 0;
}
```

4. Grade Checker 1

Code:

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

int main()
{
   ios_base::sync_with_stdio(false);
   cin.tie(nullptr);

   double score;
   cin >> score;

   if (score >= 90.00 && score <= 100.00)
   {
      cout << "Excellent" << endl;
   }
   else if (score >= 75.00 && score <= 89.99)
   {
      cout << "Good" << endl;
   }
   else if (score >= 50.00 && score <= 74.99)
   {
      cout << "Average" << endl;
   }
   else if (score >= 0.00 && score <= 49.99)
   {
      cout << "Poor" << endl;
   }
   else
   {
      cout << "Invalid score" << endl;
   }

   return 0;
}
```

5. Contest Rewards

Code:

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

int main()
{
   ios_base::sync_with_stdio(false);
   cin.tie(nullptr);

   int a, b, x, y;
   cin >> a >> b >> x >> y;
   cout << (a * x) + (b * y) << nl;

   return 0;
}
```

6. Secret Message Match

Code:

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

int main()
{
   int t;
   cin >> t;
   while (t--)
   {
      string a, b;
      cin >> a >> b;
      int mini = 0, maxi = 0;
      for (int i = 0; i < a.size(); i++)
      {
         if (a[i] == '?' || b[i] == '?')
         {
            maxi++;
```

```
            }
            else if (a[i] != b[i])
            {
                mini++;
                maxi++;
            }
        }
        cout << mini << " " << maxi << '\n';
    }
    return 0;
}
```

7. Code Cracker 3

Code:

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

int main()
{
    int t;
    cin >> t;
    while (t--)
    {
        string a, b;
        cin >> a >> b;
        int dif = 0;

        for (int i = 0; i < a.size(); i++)
        {
            if (a[i] != b[i])
                dif++;
        }
        cout << dif << ' ';
    }
    return 0;
}
```