Algorithms Lab

Lab Report - 1

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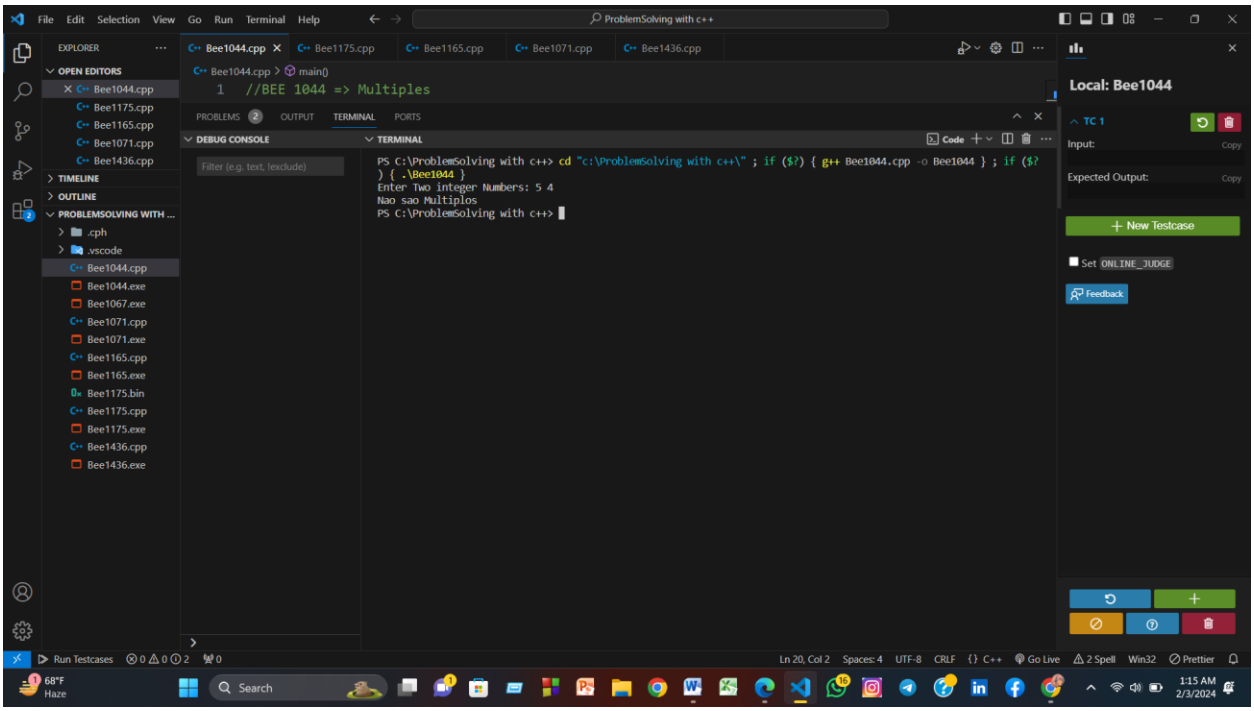
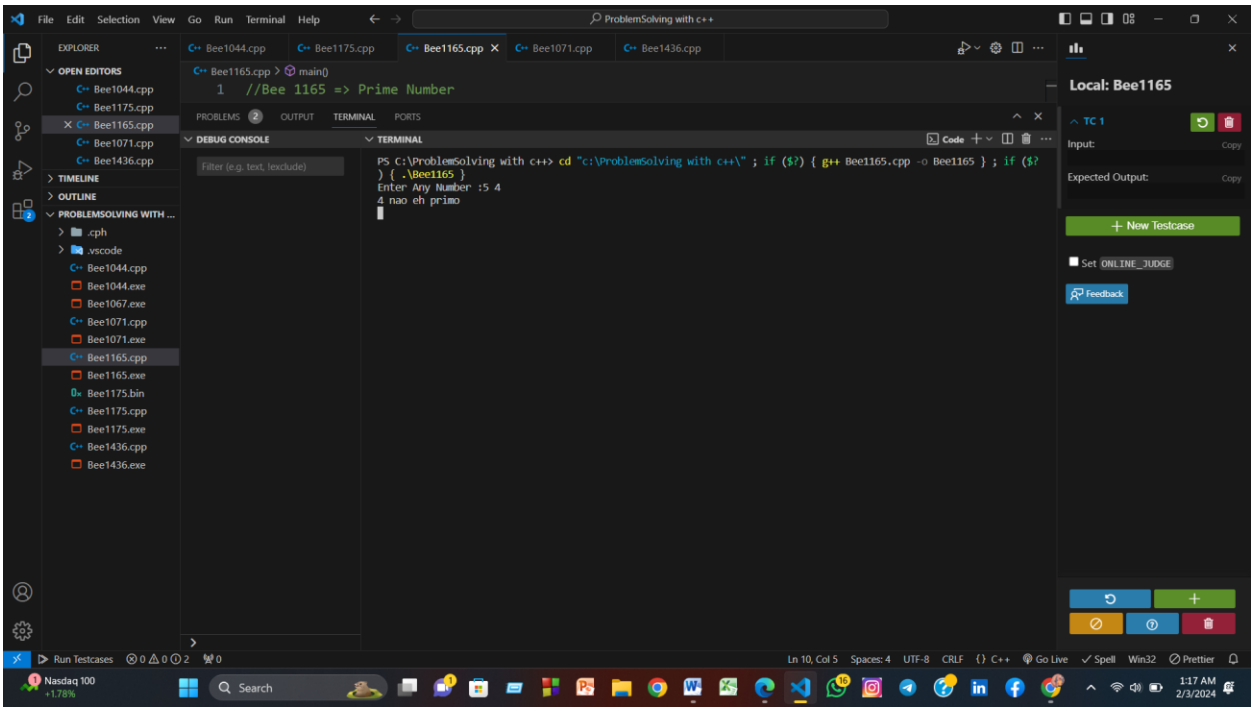
```cpp
//BEE 1044 => Multiples

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

int main(){

    int A,B;
    cout << "Enter Two integer Numbers: ";
    cin >> A >> B;

    if (B % A == 0 || A % B == 0){
        cout << "Sao Multiplos" << endl;
    }
    else{
        cout << "Nao sao Multiplos" << endl;
    }

    return 0;
}
```



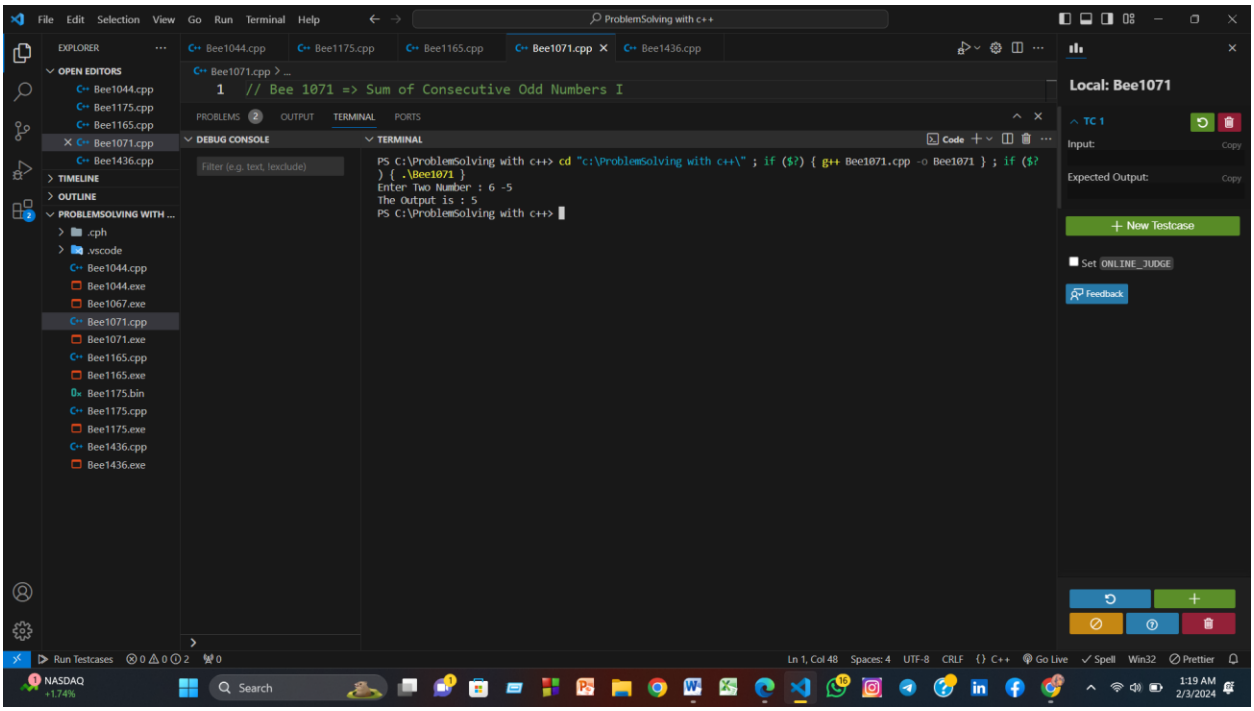

```cpp
//Bee 1165 => Prime Number

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

int main(){
    int x;
    cout << "Enter Any Number :";
    cin >> x;

    for(int i = 0; i<x; i++){
```

```
        int n;
        cin >> n;

        int prime = 0;
        for(int i = 1; i<n+1; i++){
            if(n % i == 0){
                prime++;
            }
        }
        if(prime == 2 and 1 != n){
            cout << n << " eh primo" << endl;
        }
        else{
            cout << n << " nao eh primo" << endl;
        }
    }

    return 0;
}
```



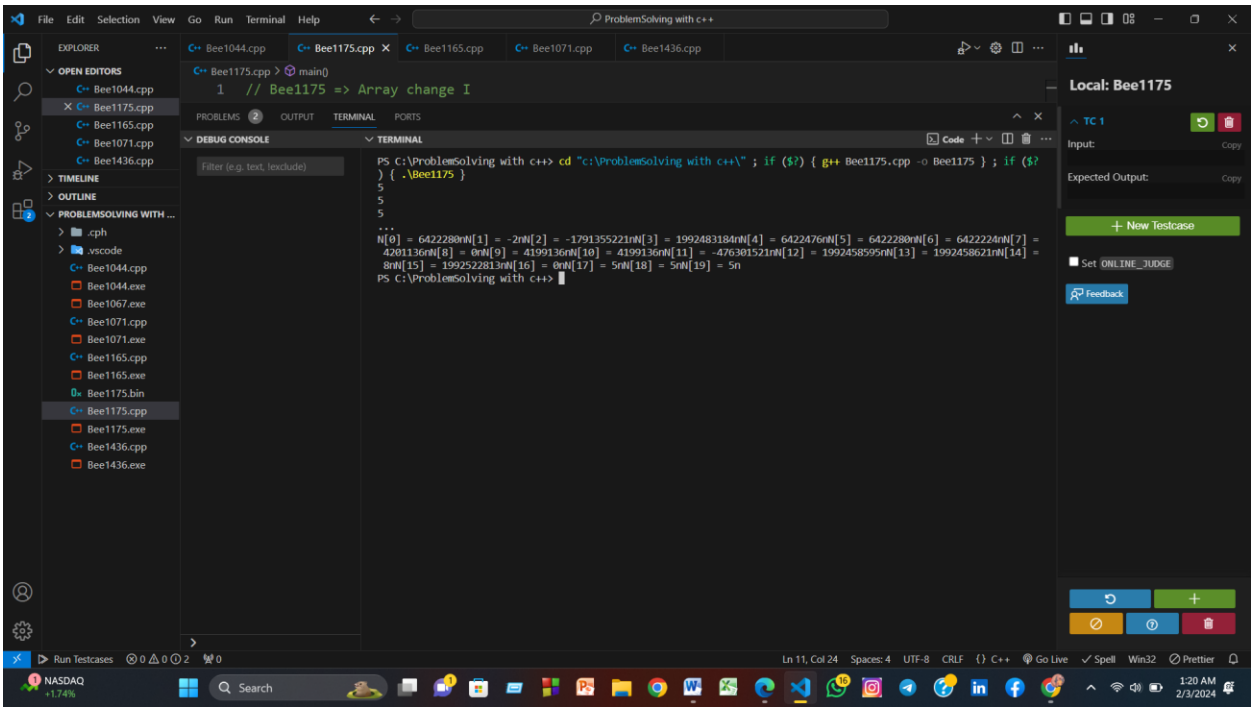

```cpp
// Bee 1071 => Sum of Consecutive Odd Numbers I

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

int main(){

    int X, Y, sum;
```

```
    cout << "Enter Two Number : ";
    cin >> X >> Y;
    sum = 0;

    if (X > Y) {
        int temp = X;
        X = Y;
        Y = temp;
    }
    for (int i = X + 1; i < Y; i++) {
        if (i % 2 != 0) {
            sum = sum + i;
        }
    }
    cout << "The Output is : " << sum << endl;

    return 0;
}
```




```cpp
// Bee1175 => Array change I

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

int main(){
    int N[20];
    int a,aux;
```

```
    a= 0;
    while(cin >> N[a]){
        a++;
    }
    a = 0;
    for(int i = 19; i >= 10; i--){
            aux = N[i];
            N[i] = N[a];
            N[a] = aux;
            a++;
    }

    for(int j = 0; j < 20; j++){
            cout << "N[" << j << "] = " << N[j] << "n";
    }
    return 0;
}
```




```cpp
//Bee 1436 => Brick Game

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

int main()
{
    int n;
    cout << "Enter Any Number : ";
    cin>>n;
    for(int i=1;i<=n;i++)
```

```cpp
    {
        int a[12];
        int N;
        cin>>N;
        for(int j=0;j<N;j++)
        {
            cin>>a[j];
        }
        cout<<"Case"<<i<<": "<<a[N/2]<<endl;
        }
    return 0;
}
```