Poperties of Geometric Figures

```cpp
// Poperties Of Geometric Figures Ifk

#include<iostream>
using namespace std;

int main ()
{
    cout << "PROPERTIES OF GEOMETRIC FIGURES" << endl;

    // RECTANGLE

    int A;          // One side
    int B;          // Another side
    int rectArea;   // Area
    int rectPeri;   // Perimeter

    cout << "RECTANGLE" << endl;

    // Prompt

    cout << "Enter one side : \n";
    cin >> A;

    cout << "Enter another side : \n";
    cin >> B;

    // Calculate

    rectArea = A * B;
    rectPeri = 2 * (A + B);

    // Output

    cout << "Area : " << rectArea << endl;
    cout << "Perimeter : " << rectPeri << endl;

    // CIRCLE

    double R;          // Radius
    double circArea;   // Area
    double circPeri;   // Perimeter

    cout << "CIRCLE" << endl;

    // Prompt

    cout << "Enter radius : \n";
    cin >> R;

    // Calculate

    circArea = 3.1416 * R * R;
    circPeri = 2 * 3.1416 * R;
```

```
54
55      // Output
56
57      cout << "Area : " << circArea << endl;
58      cout << "Perimeter : " << circPeri << endl;
59
60      // AREA COMPARISION
61
62      if( rectArea > circArea )
63      {
64          cout << "Rectangle has larger area" << endl;
65      }
66      else
67      {
68          cout << "Circle has larger area" << endl;
69      }
70
71      return 0;
72  }
```

Test Case 1

Input

```
1  10
2  5
3  20
```

Output

```
1  PROPERTIES OF GEOMETRIC FIGURES
2  RECTANGLE
3  Enter one side :
4  Enter another side :
5  Area : 50
6  Perimeter : 30
7  CIRCLE
8  Enter radius :
9  Area : 1256.64
10 Perimeter : 125.664
11 Circle has larger area
```

Test Case 2

Input

```
1  15
2  12
3  5
```

Output

```
PROPERTIES OF GEOMETRIC FIGURES
RECTANGLE
Enter one side :
Enter another side :
Area : 180
Perimeter : 54
CIRCLE
Enter radius :
Area : 78.54
Perimeter : 31.416
Rectangle has larger area
```