Problem #1
(10 marks = 5 + 5)

1. Write a `Line` class that contains the value of m and c if we represent a line in the form y = mx + c. Assume that all the member variables are integers. Also write a constructor that takes the values of m and c as parameters and assigns them accordingly.
2. Write an Angle Class that contains two member variables of type Line.

If you need getters and setters, you need to write them too. Also you must follow object oriented practices.

Problem #2
(10 marks)

Write a member function `double angleBetween()`, which returns the absolute measure in degree of the acute angle between the two lines of the caller Angle. Write a main function to read 4 integers. The first 2 integers indicate the value of m and c of the first line. The next 2 integers represent the value of m and c of the second line. Using the Classes defined in Problem 1 and the function, print the angle between the two lines.

Sample Input	**Sample Output**
0 0 1 0	45.00
3 5 -4 10	32.49
1 10 -1 20	90.00

Problem #3
(Bonus)(10 marks)

Write a member function `int isBisector(Line l)`, which returns 1 if the the Line l bisects the caller Angle. Write a main function to read 6 integers. The first 2 integers indicate the value of m and c of the first line. The next 2 integers represent the value of m and c of the second line of the angle. Finally the last two integers corresponds to the m and c of the line. Using the Classes defined in Problem 1 and the function in problem 2 and 3, print whether the third line bisects the angle between the former two lines.

Sample Input	**Sample Output**
1 20 -1 10 0 15	Bisector
1 5 -1 10 1 10	Not Bisector