Problem #1 (10 marks)

Given 4 integers write a program to find the second maximum of the integers. **You cannot use nested if-else or switch-case, logical connectors, for loops or arrays.**

Sample Input(s)	**Corresponding Output(s)**
1 2 3 4	3
4 3 2 1	3
1 5 4 2	4

Problem #2 (10 marks)

In this problem, you are given equations of two lines in the form $aX + bY + c = 0$. You need to output their intersection point (up to 3 digits after fraction point). If they do not intersect, then print "Do not intersect". Your input will be 6 integers. The first 3 integers represent a, b, and c for the first line respectively. The next three integers are the parameters for the second line the same way.

See the following sample input/output:

Sample Input(s)	Corresponding Output(s)
0 1 -5 1 0 -10	Intersection point: 10.000 5.000
2 5 -20 4 10 -44	Do not intersect
-55 0 165 -30 60 -150	Intersection point: 3.000 4.000
-30 60 -150 -15 30 -75	Donot intersect
2 33 49 7 11 59	Intersection point: -6.737 -1.077