OOP using JAVA - Lab 4

A polynomial is defined by the equation: ax^2+bx+c . (suppose a, b, and c are not zeros)

- ✓ Write the class **Polynom** described as follows:
 - Attributes (private):
 - o a: double
 - o b : double
 - o c:double
 - Methods (public):
 - The constructor Polynom(double,double) that sets the values of the coffecients a,b, and c.
 - o asString: String returns a string that represents the polynomial in the format ax^2+bx+c example (in case a = 1, b = -2, c = 1) the function returns: x^2-2x+1
 - Roots: double []
 returns an array of two float values which are the roots of the polynomial.
 Use the value (Double.NaN) in case there is no root(s).
- ✓ Write the class PolyDriver that contains a main function and allows to reads a polynomial (by asking the user to enter the coefficients' values), computes and displays its roots as following:

The polynomial $x^2 - 2x + I$ has the double root -I.

Bonus: Write in the driver a method that takes two polynomials, identifies the one that has the maximum root value, and adjust its first coefficient (a) is to be that of the other polynomial.

PS: the attributes should remain private.;) ... so, what to do?

Test this method in your main