

Instructions:

1. Click on File -> Make a copy

Include your IPO Chart with your code in Eclipse IDE: We will discuss and demonstrate this in the computer lab.

IPO CHART

Program name:	QuadraticEquation(Mastery)	
INPUT	PROCESS	OUTPUT
Hint: What will the user input?	Hint: What is the program going to do with the input information?	Hint: What will the screen display after user input?
<ul style="list-style-type: none">- Input a value for a:- Input a value for b:- Input a value for c:	<ul style="list-style-type: none">- Take the a, b, and c values to calculate the discriminant ($b^2 - 4ac$)- If discrim is less than 0, no roots to equation. End Program- Else:- For the variable of root1, use the equation $((-b \pm (\text{Math.sqrt(discrim)})) / (2 * a))$; and type cast it all as int- For root2, typecast it as an int again, but instead of adding, <u>subtract</u>- If root1 is same as roo2, than there is only 1 root to the	<div>E.g. Enter an int value for a: 2 Enter an int value for b: 4 Enter an int value for c: -30 The roots of the equation are 3 and -5</div>

	equation - Otherwise there are 2 roots to equation	
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