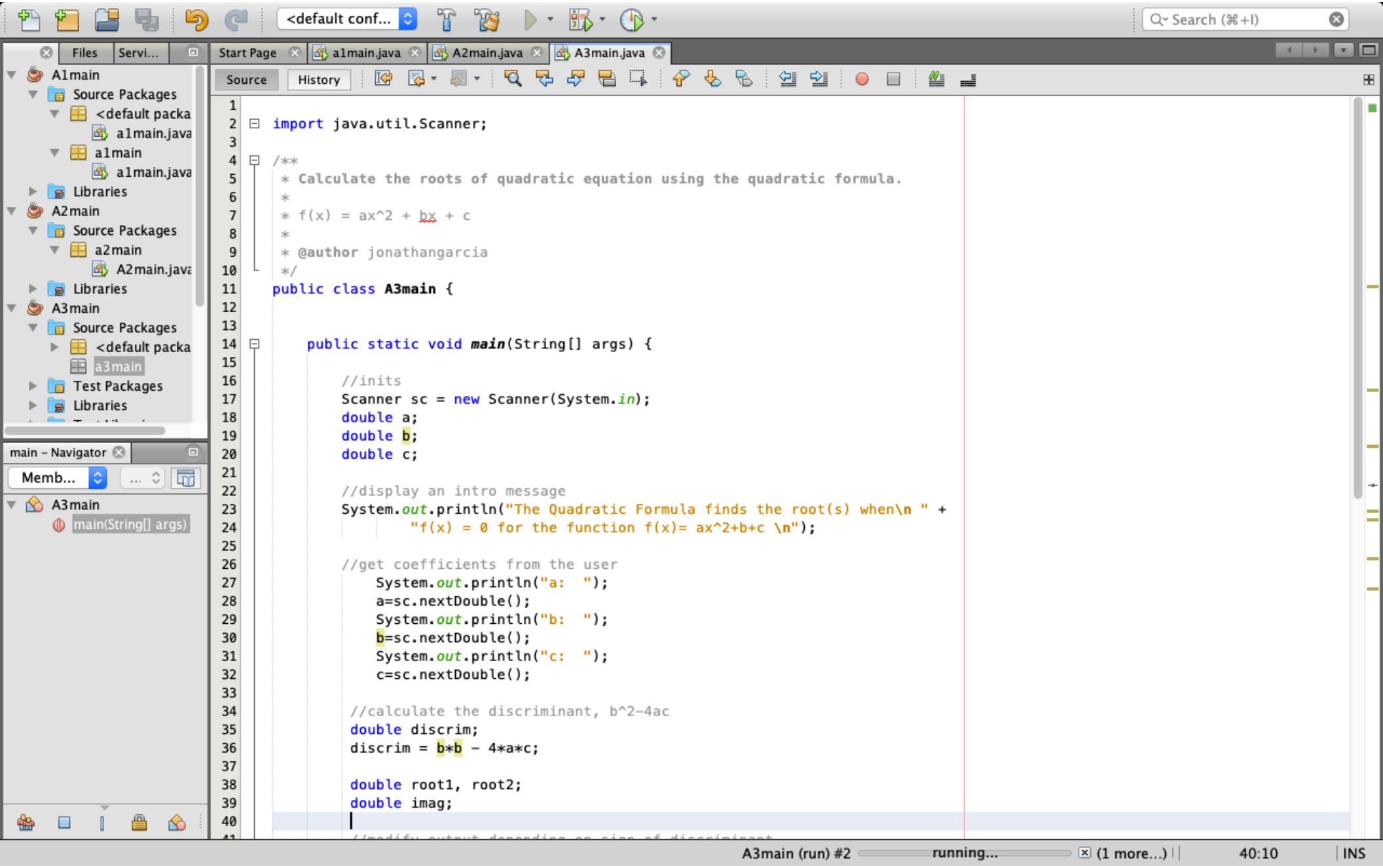
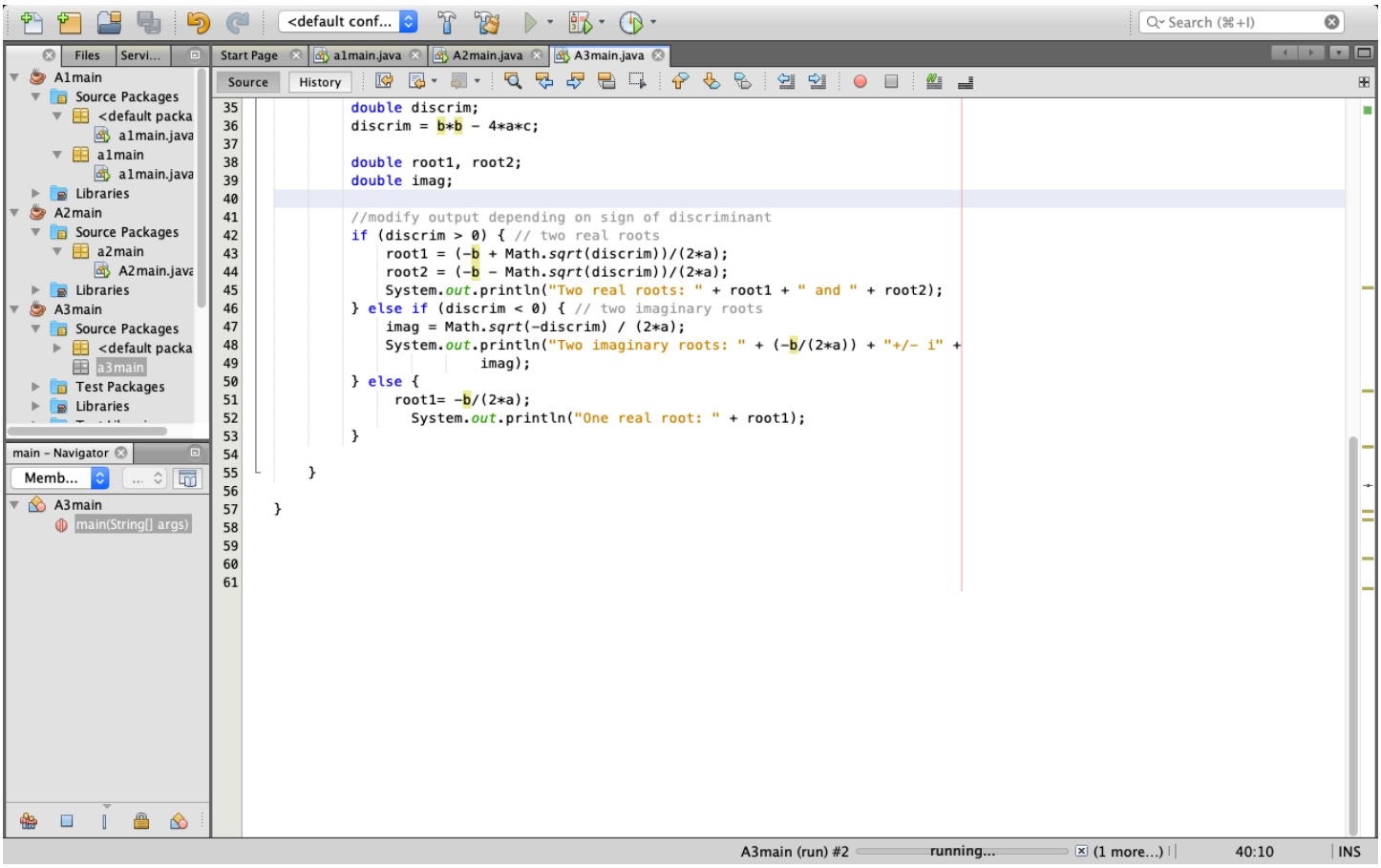

Files
Servi...
A1main
Source Packages
<default packa
a1main.java
a1main
a1main.java
Libraries
A2main
Source Packages
a2main
A2main.java
Libraries
A3main
Source Packages
<default packa
a3main
Test Packages
Libraries
main – Navigator
Memb...
A3main
main(String[] args)
Start Page
a1main.java
A2main.java
A3main.java
Source
History
1 import java.util.Scanner;
2
3 /**
4 * Calculate the roots of quadratic equation using the quadratic formula.
5 *
6 * f(x) = ax^2 + bx + c
7 *
8 * @author jonathangarcia
9 */
10 public class A3main {
11
12
13 public static void main(String[] args) {
14
15 //inits
16 Scanner sc = new Scanner(System.in);
17 double a;
18 double b;
19 double c;
20
21 //display an intro message
22 System.out.println("The Quadratic Formula finds the root(s) when\n " +
23 "f(x) = 0 for the function f(x)= ax^2+b+c \n");
24
25 //get coefficients from the user
26 System.out.println("a: ");
27 a=sc.nextDouble();
28 System.out.println("b: ");
29 b=sc.nextDouble();
30 System.out.println("c: ");
31 c=sc.nextDouble();
32
33 //calculate the discriminant, b^2-4ac
34 double discrim;
35 discrim = b*b - 4*a*c;
36
37 double root1, root2;
38 double imag;
39
40
A3main (run) #2
running...
(1 more...)
40:10
INS


Files
Servi...
A1main
Source Packages
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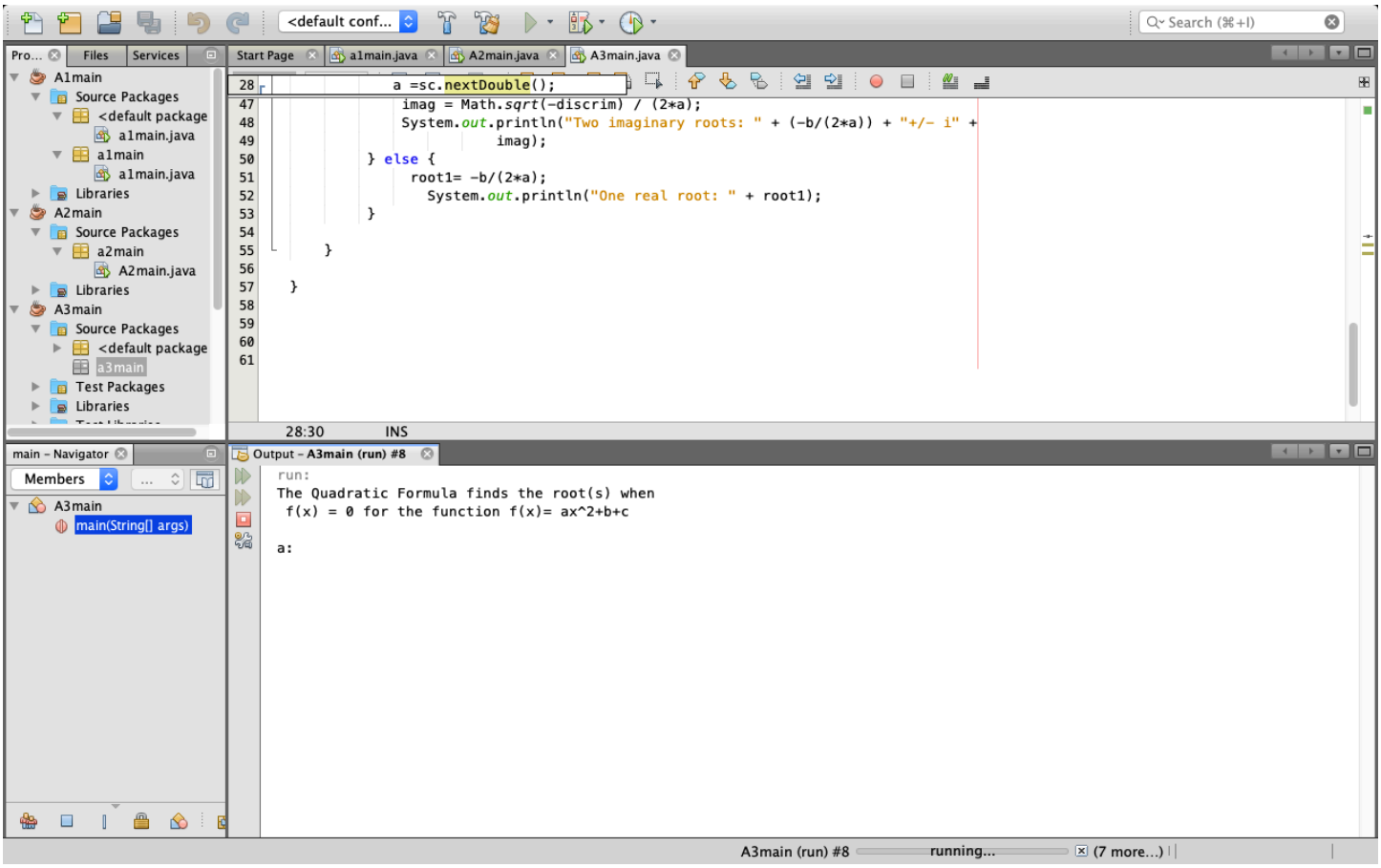
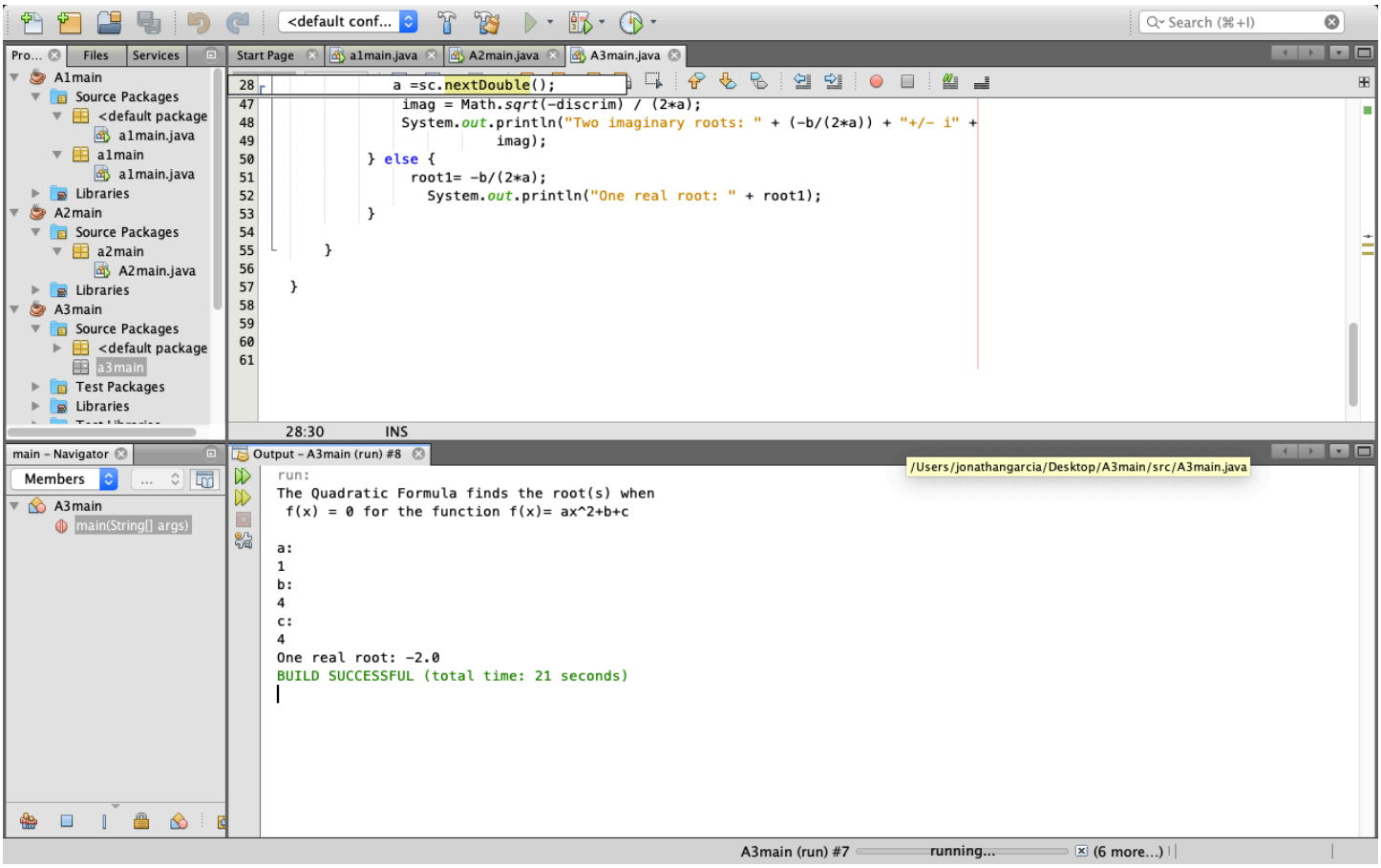
a1main.java
a1main
a1main.java
Libraries
A2main
Source Packages
a2main
A2main.java
Libraries
A3main
Source Packages
<default packa
a3main
Test Packages
Libraries
main – Navigator
Memb...
A3main
main(String[] args)
Start Page
a1main.java
A2main.java
A3main.java
Source
History
double discrim;
discrim = b*b - 4*a*c;
double root1, root2;
double imag;
//modify output depending on sign of discriminant
if (discrim > 0) { // two real roots
root1 = (-b + Math.sqrt(discrim))/(2*a);
root2 = (-b - Math.sqrt(discrim))/(2*a);
System.out.println("Two real roots: " + root1 + " and " + root2);
} else if (discrim < 0) { // two imaginary roots
imag = Math.sqrt(-discrim) / (2*a);
System.out.println("Two imaginary roots: " + (-b/(2*a)) + "+/- i" +
imag);
} else {
root1= -b/(2*a);
System.out.println("One real root: " + root1);
}
}
}
A3main (run) #2
running...
(1 more...)
40:10
INS


Start Page
a1main.java
A2main.java
A3main.java
a = sc.nextDouble();
imag = Math.sqrt(-discrim) / (2*a);
System.out.println("Two imaginary roots: " + (-b/(2*a)) + "+/- i" +
imag);
} else {
root1= -b/(2*a);
System.out.println("One real root: " + root1);
}
}
}
28:30
INS
Output - A3main (run) #8
run:
The Quadratic Formula finds the root(s) when
f(x) = 0 for the function f(x)= ax^2+b+c
a:
A3main (run) #8
running...
(7 more...)


Start Page
a1main.java
A2main.java
A3main.java
a = sc.nextDouble();
imag = Math.sqrt(-discrim) / (2*a);
System.out.println("Two imaginary roots: " + (-b/(2*a)) + "+/- i" +
imag);
} else {
root1= -b/(2*a);
System.out.println("One real root: " + root1);
}
}
}
28:30 INS
Output - A3main (run) #8
/Users/jonathangarcia/Desktop/A3main/src/A3main.java
run:
The Quadratic Formula finds the root(s) when
f(x) = 0 for the function f(x)= ax^2+b+c
a:
1
b:
4
c:
4
One real root: -2.0
BUILD SUCCESSFUL (total time: 21 seconds)
A3main (run) #7
running...
(6 more...)