javaArrayDeque.java U | javaHashSet.java U | javaDateclass.java U | javaCalendar.java U | add.c M | test1.c U | test2.c U

c++ > test1.c > main()

```c
#include <stdio.h>

int main() {
    double a, b, c, discriminant, root1, root2, realPart, imagPart;
    printf("Enter coefficients a, b and c: ");
    scanf("%lf %lf %lf", &a, &b, &c);

    if (a == 0) {
        printf("This is not a quadratic equation (a cannot be zero).\n");
        return 0;
    }
    discriminant = b*b - 4*a*c;
    if (discriminant > 0) {
        root1 = (-b + sqrt(discriminant)) / (2*a);
        root2 = (-b - sqrt(discriminant)) / (2*a);
        printf("Roots are real and distinct.\n");
        printf("Root1 = %.2lf and Root2 = %.2lf\n", root1, root2);
    }
    else if (discriminant == 0) {
        root1 = -b / (2*a);
        printf("Roots are real and equal.\n");
        printf("Root1 = Root2 = %.2lf\n", root1);
    }
    else {
        realPart = -b / (2*a);
        imagPart = sqrt(-discriminant) / (2*a);
        printf("Roots are complex and conjugate.\n");
        printf("Root1 = %.2lf + %.2lfi and Root2 = %.2lf - %.2lfi\n",
               realPart, imagPart, realPart, imagPart);
    }
    return 0;
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

```
cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc test1.c -o test1 && "/Users/rishabhtrivedi/Documents/vs/c++/"test1
rishabhtrivedi@Rishabhs-MacBook-Air vs % cd "/Users/rishabhtrivedi/Documents/vs/c++/" && gcc test1.c -o test1 && "/Users/rishabhtrivedi/Documents/vs/c++/"test1
Enter coefficients a, b and c: 2 4 6
Roots are complex and conjugate.
Root1 = -1.00 + 1.41i and Root2 = -1.00 - 1.41i
rishabhtrivedi@Rishabhs-MacBook-Air c++ %
```