

```
#include <stdio.h>
#include <math.h>

/*Copyright (c) 2017 Nathan Christian (nchristi@iu.edu)*/
/*This is a quadratic equation calculator*/

int main()
{
    double a, b, c, x_plus, xptest, xmtest, x_minus;
    double four_ac, bb, root;

    printf("This program is a quadratic equation calculator.\n");
    printf("What is the 'a' value? ");
    scanf("%lf", &a);

    printf("\nWhat is the 'b' value? ");
    scanf("%lf", &b);

    printf("\nWhat is the 'c' value? ");
    scanf("%lf", &c);

    bb=b*b;
    four_ac=4*a*c;
    root=sqrt(bb-four_ac);
    x_minus =((b*-1)-root)/(2*a);
    x_plus =((b*-1)+root)/(2*a);

    printf("\nx is %lf or %lf", x_plus, x_minus);

    return 0;
}
```