

```

1  #include <stdio.h>
2
3  int numroots ( double p, double q, double r ) {
4      double d = q*q - 4*p*r;
5
6      if ( d<0 ) {
7          return 0;
8      } else if ( d==0 ) {
9          return 1;
10     } else {
11         return 2;
12     }
13 }
14
15 int main () {
16     double a,b,c;
17     int num;
18
19     printf("Enter the coefficients: ");
20     scanf("%lf %lf %lf", &a, &b, &c);
21
22     num = numroots(a, b, c);
23
24     printf( "Number of roots: %i\n", num );
25
26     return 0;
27 }

```