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C program for solving quadratic equation

```
1. C program to calculate roots of a quadratic equation
2. Quadratic equation in c language

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

int main(){
  float a,b,c;
  float d,root1,root2;

  printf("Enter a, b and c of quadratic equation: ");
  scanf("%f%f%f",&a,&b,&c);

  d = b * b - 4 * a * c;

  if(d < 0){
    printf("Roots are complex number.\n");

    printf("Roots of quadratic equation are: ");
    printf("%.3f%+.3fi",-b/(2*a),sqrt(-d)/(2*a));
    printf(", %.3f%+.3fi",-b/(2*a),-sqrt(-d)/(2*a));

    return 0;
  }
  else if(d==0){
   printf("Both roots are equal.\n");

   root1 = -b /(2* a);
   printf("Root of quadratic equation is: %.3f ",root1);

   return 0;
```
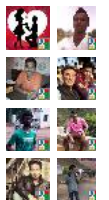
```
  }
  else{
   printf("Roots are real numbers.\n");

   root1 = ( -b + sqrt(d)) / (2* a);
   root2 = ( -b - sqrt(d)) / (2* a);
   printf("Roots of quadratic equation are: %.3f ,
%.3f",root1,root2);
  }

  return 0;
}
```

```
Sample output:
Enter a, b and c of quadratic equation: 2 4 1
Roots are real numbers.
Roots of quadratic equation are: -0.293, -1.707
```

1. How to find a b and c in a quadratic equation

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

int main(){
  float a,b,c;
  float d,root1,root2;

  printf("Enter quadratic equation in the format ax^2+bx+c:
");
  scanf("%fx^2%fx%f",&a,&b,&c);

  d = b * b - 4 * a * c;

  if(d < 0){
    printf("Roots are complex number.\n");

    return 0;
  }

   root1 = ( -b + sqrt(d)) / (2* a);
   root2 = ( -b - sqrt(d)) / (2* a);
   printf("Roots of quadratic equation are: %.3f ,
%.3f",root1,root2);

  return 0;
}
```

```
Sample output:
Enter quadratic equation in the format ax^2+bx+c: 2x^2+4x+-1
Roots of quadratic equation are: 0.000, -2.000
```

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3. Write a c program to convert octal number to decimal number.
4. Write a c program to convert octal number to hexadecimal number.
5. Write a c program to convert hexadecimal number to decimal number.
6. Write a c program to convert hexadecimal number to octal number.
7. Write a c program to convert binary number to decimal number.

C PROGRAMMING QUESTIONS AND ANSWER

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G+1 148

8. Write a c program to convert binary number to hexadecimal number.

9. Write a c program to convert binary number to octal number.

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17 comments:

Anonymous 11/2/11, 7:43 AM

```
#include
#include
#include
main()
{
float a,b,c,d,r1,r2;
printf("enter a ,b,c, values");
scanf("%f%f%f",&a,&b,&c);
d=(b*b)-(4*a*c);
if(d>0)
{
r1=-b+sqrt(d)/2*a;
r2=-b-sqrt(d)/2*a;
printf("root1= %f,root2=%f",r1,r2);
}
else
{
printf("roots are imaginary");
}
.....................
```

Reply

> Replies
>
> **Joseph Mwangi** 1/13/16, 8:49 PM
>
> Thank you very much.
>
> **GOPAL BASAK** 5/23/16, 3:25 PM
>
> *This comment has been removed by the author.*

Reply

Jinto Philip 8/20/13, 10:10 PM

Its a simple and best program.

Reply

vasanta rathod 9/14/13, 2:40 PM

U are really helpful .
Thank u very much

Reply

dungster 11/17/13, 11:34 AM

Thank you very much for this easiest program

Reply

RAFIA ZAHEER 5/2/14, 11:05 PM

it gives call of nonfunction error

Reply

cnr 6/22/14, 7:37 AM

printf("%.3f%+.3fi",-b/(2*a),sqrt(-d)/(2*a));
printf(", %.3f%+.3fi",-b/(2*a),-sqrt(-d)/(2*a));

1) -b/(2*a)
2) sqrt(-d) / (2*a)
why these two expressions are separately evaluated?
what is the meaning of these two expressions. Please anybody help me.

Reply

anas lipop 12/8/14, 4:11 PM

```
#include
#include
{void main()
char arr[]="we are Bangladeshi";
int len=strlen(arr[]);
int i;
int alpha
for(i=0;arr[i]!='\0';i++)
printf ("\n enter the line \n");
printf("\n string \n");
while(arr[i]='\0')
if (arr[i]='32');
{
alpha_c++;
}
else {
alpha_c
}


}
```

Reply

Tarun Pokar 1/2/15, 4:06 PM

nee ayya na arm pit nakkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkuuuuuuuuuuuuu

Reply

Zahid Jutt 7/25/15, 10:09 PM

can anyone please comment the code for linear equations....
C program

Reply

Enlighten BD 9/11/15, 9:04 PM

How can I do it using for loops?

Reply

Muhammad Saad Nazir 10/28/15, 7:22 PM

i can't

Reply

Unknown 2/26/16, 7:06 PM

tq so much

Reply

Unknown 4/5/16, 9:39 PM

This comment has been removed by the author.

Reply

Eric Ndifon 4/5/16, 9:41 PM

i am using Dev C++ compiler.i have the C code to solve a quadratic equation.the .exe file runs very well and provide the required solutions.my problem is that i want the program to function in a gui environment still using C language and the same Dev C++ compiler.possible?please help...!

Reply

venu Reddy 4/21/16, 12:16 AM

can you solve this
a = [1,2,3,4,10,20,30] # random length between 1 to 10,000, random content 1 to 10,000
b = [20,30,1,2,1,3,4,4,5]

def mergeCounter(a,b):
response = {}

Rules:
modify of array a and b is not allowed
merge of a and b is not allowed
you can only use one loop

###
TODO: Implement this function in below section
###

Output: Is dictionary/map
Key: number
value: frequency of key from array a and b
Example:
a = [1,2,1,5]
b = [1,3,3,4,5]
response = {1:3,2:1,5:2,3:2,4:1}

return response

Testing
mergeCounter (a,b)

Reply

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