**COMPUTE CIRCLE METRICS**

/\*COMPUTE CIRCLE METRICS

SUBSTITUTE ??? BELOW

IF YOU ARE USING https://www.codechef.com/ide

WITH C (GCC-4.9.2)

THEN ENTER WHATEVER INTEGER NUMBER YOU DESIRE FOR THE RADIUS

IN THE CUSTOM INPUT, FOR EXAMPLE, 123 (NOTE YOU HAVE TO CHECK

THE CUSTOM INPUT BOX BEFORE YOU RUN THE PROGRAM)

\*/

#include<stdio.h>

int main() {

int rad;

float PI = 3.14, area, ci;

printf("\nEnter radius of circle: ");

scanf("%d", &rad);

area = rad \* rad \* PI; //SUBSTITUTE ??? FOR CORRECT CALCULATION

printf("\nArea of circle : %f", area);

ci = 2 \* PI \* rad;

printf("\nCircumference : %f", ci; //SUBSTITUTE ??? FOR CORRECT VARIABLE

return 0;

}

**Input**

9

**Output**

Enter radius of circle:

Area of circle : 254.340012

Circumference : 56.520000

**FIND GREATEST IN 3 NUMBERS**

/\*FIND GREATEST IN 3 NUMBERS

SUBSTITUTE ??? BELOW

IF YOU ARE USING https://www.codechef.com/ide

WITH C (GCC-4.9.2)

THEN ENTER SOMETHING LIKE '23 784 21'

IN THE CUSTOM INPUT, (NOTE YOU HAVE TO CHECK

THE CUSTOM INPUT BOX THIS BEFORE YOU RUN THE PROGRAM)

\*/

#include<stdio.h>

int main() {

int a, b, c;

printf("\nEnter value of a, b & c : ");

scanf("%d %d %d", &a, &b, &c);

if ((a > b) && (a > c))

printf("\na is greatest");

if ((b > c) && (b > a)) //SUBSTITUTE ??? FOR CORRECT CONDITION

printf("\nb is greatest");

if ((c > a) && (c > b)) //SUBSTITUTE ??? FOR CORRECT CONDITION

printf("\nc is greatest");

return 0;

}

**Input**

22 46 56

**Output**

Enter value of a, b & c :

c is greatest

**MULTIPLICATION CALCULATOR**

/\*MULTIPLICATION CALCULATOR

SUBSTITUTE ??? FOR EITHER 'continue' OR 'break'

SO THAT THE CALCULATOR WORKS CORRECTLY.

IF YOU ARE USING https://www.codechef.com/ide

WITH C (GCC-4.9.2)

THEN USE SOMETHING LIKE THIS FOR 'CUSTOM INPUT'

"10 1 2 3 4 5 6 7 8 9 0"

WHERE THE INITIAL '10' IS FOR THE NUMBER OF FACTORS TO USE

WHILE THE REST OF THE NUMBERS (1 ... 0) ARE THE FACTORS TO

MULTIPLY. (NOTE YOU HAVE TO CHECK THE CUSTOM INPUT BOX BEFORE YOU RUN THE PROGRAM)

\*/

#include <stdio.h>

int main()

{

// loop variables

int i; // loop index

int last; // number of computations to perform

const int cap=20; // maximum to avoid an endless loop

// computing variables

int long x; // variable

int long total=1; // product result

printf("How many integer factors do you want to multiply? ");

scanf("%d",&last);

for ( i=1 ; i<=cap ; i++){ /\* good practice to have

\* a limit for loops that

\* iterate for an indefinite

\* number of times \*/

if (i>last) // end program

break;

printf("Enter factor %d: ", i);

scanf("%ld",&x);

if ( x==0 )

continue; // avoid getting zero

else

{

total=total\*x;

printf(" Total = %ld \n",total);

}

} // end of loop

printf("\n Finished, thanks. \n");

return 0;

}

**Input**

10 1 2 3 4 5 6 7 8 9 0

**Output**

How many integer factors do you want to multiply?

Enter factor 1: Total = 1

Enter factor 2: Total = 2

Enter factor 3: Total = 6

Enter factor 4: Total = 24

Enter factor 5: Total = 120

Enter factor 6: Total = 720

Enter factor 7: Total = 5040

Enter factor 8: Total = 40320

Enter factor 9: Total = 362880

Enter factor 10:

Finished, thanks.

**OBTAIN SOLUTION OF SECOND ORDER QUADRATIC EQUATION**

/\*OBTAIN SOLUTION OF SECOND ORDER QUADRATIC EQUATION

SUBSTITUTE ??? WHEN NEEDED

IF YOU ARE USING https://www.codechef.com/ide

WITH C (GCC-4.9.2)

THEN ENTER the INTEGER NUMBERS YOU DESIRE

IN THE CUSTOM INPUT.

TRY: '1 -5 6' . BE CAREFUL AS SOME NUMBERS MAY PRODUCE ERRORS

(NOTE YOU HAVE TO CHECK THE CUSTOM INPUT BOX

BEFORE YOU RUN THE PROGRAM)

\*/

#include<stdio.h>

#include<math.h>

int main() {

float a, b, c;

float desc, root1, root2;

printf("\nEnter the Values of a : ");

scanf("%f", &a);

printf("\nEnter the Values of b : ");

scanf("%f", &b);

printf("\nEnter the Values of c : ");

scanf("%f", &c);

desc = sqrt(b \* b - 4 \* a \* c);

root1 = (-b + desc) / (2.0 \* a);

root2 = (-b - desc) / (2.0 \* a);

printf("\nFirst Root : %f", root1);

printf("\nSecond Root : %f", root2);

return 0;

}

**Input**

1 -5 6

**Output**

Enter the Values of a :

Enter the Values of b :

Enter the Values of c :

First Root : 3.000000

Second Root : 2.000000