

# C++ Practice Exercises with solutions

## Control Structures

1. Consider the following program:

```
int x,y;
cin >> x >> y;
while(x!=0 && y!=0){
    if(x>y){
        x = x-y;
    }else if(x<y){
        y = y-x;
    }else y=0;
}
cout << x+y << endl;
```

What will this program print on the following inputs:

- a. 12 5
- b. 27 39
- c. -2 12
- d. 23 0

2. Write a function that takes as input a positive integer  $n$  and returns the  $n$ -th harmonic number. Reminder: the  $n$ -th harmonic number is equal to  $1+(1/2)+(1/3)+(1/4)+\dots+(1/n)$

**Solution:**

```
double harmonic(int n)
{
    int i; double res=0.0;
    for(i=1; i<=n; i++)
```

# C Programming Language Exercises Solutions

**Huangqi Zhang**



## **C Programming Language Exercises Solutions:**

The book delves into C Programming Language Exercises Solutions. C Programming Language Exercises Solutions is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into C Programming Language Exercises Solutions, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 1: Introduction to C Programming Language Exercises Solutions
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    - Chapter 3: C Programming Language Exercises Solutions in Everyday Life
    - Chapter 4: C Programming Language Exercises Solutions in Specific Contexts
    - Chapter 5: Conclusion
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