

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++)
```

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