**Siena College’s 32nd Annual** **High School Programming Contest**

**Sponsored by Transfinder**

##### **March 29, 2019**

###### Green Problem #1:  Starting with some Arithmetic

Background Information: There are hundreds and depending on how you count them, even thousands of computer programming languages. The great majority of these languages use + for their arithmetic operator of addition. The language COBOL and many assembly languages use ADD rather than +. The following table on currently popular programming languages may motivate a person to learn one language rather than another.

In two of our three contest languages,

Java and C++, the / operator for integer division

is the same. For Python 3.0 the // operator

is used for integer division.

In Java and C++: 17 / 5 will produce a quotient of 3.

In Python: 17 / 5 will give a floating point result of 3.4.

Python integer division, 17 // 5 gives 3 for an answer.

It is frequently useful for programmers to not only compute a quotient when doing integer division but to also compute the integer remainder. In all three of our contest languages the remainder operation is %. For example: 17 % 5 gives an answer of 2 which is the remainder.

###### Programming Problem:

Input:  On separate lines, positive integers M and N with M, N < 1,000,000.

M is the dividend and N is the divisor.

Output: On one line, M, N, Q and R where Q is the (integer) quotient and R is the remainder

 Each of the four values must be separated by one space.

###### Example : Input:  17

###### 5

######  Output:  17 5 3 2

**During the contest, Siena assistants will notify you when it is time to take a short break and get some pizza.**

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