Procedure Listing & Specification

Function Main

Requests amount of numbers, request numbers, calls AddNumbers and MultiplyFirstTwoNumbers. Lastly, calls PrintNumbers and prints answers.

Function ValidateAmount

Validates that the amount entered is between the number amount range.

string

bool

Function ValidateNumber

Validates that the amount of digits of the number entered is between the digit range.

bool

string

Function PrintNumbers

Prints the formatted number of the numbers entered. Right aligns numbers with given length.

Prints symbol passed and a line.

Number[]

int

int

char

Function AddNumbers

Adds number in array using AddNumber member function. Returns the sum.

Number[]

int

Number

Function MultiplyFirstTwoNumbers

Multiplies first two numbers in Number array digit-by-digit to get the numbers to add. Return AddNumbers .

Number[]

Number

Number[]

Function Number::Number

Assigns every element in number\_array to 0.

Function Number::SetNumber

Assigns the number\_array to the number being passed with the ones place starting at index 0.

string

Function Number::FormatNumber

Formats the string representation of the number\_array with commas.

Function Number::AddNumber

Adds the number being passed digit-by-digit to the current instance.

Number