

CPP Problem Design Example

Subject: Input_Output3

Contributor: 王聖文, 張子樂, 林岳儒

Main testing concept: 基本輸入輸出

Basics

- ☒ C++ BASICS
- ☐ FLOW OF CONTROL
- ☐ FUNCTION BASICS
- ☐ PARAMETERS AND OVERLOADING
- ☐ ARRAYS
- ☐ STRUCTURES AND CLASSES
- ☐ CONSTRUCTORS AND OTHER TOOLS
- ☐ OPERATOR OVERLOADING, FRIENDS, AND REFERENCES
- ☐ STRINGS
- ☐ POINTERS AND DYNAMIC ARRAYS

Functions

- ☐ SEPARATE COMPILATION AND NAMESPACES
- ☐ STREAMS AND FILE I/O
- ☐ RECURSION
- ☐ INHERITANCE
- ☐ POLYMORPHISM AND VIRTUAL FUNCTIONS
- ☐ TEMPLATES
- ☐ LINKED DATA STRUCTURES
- ☐ EXCEPTION HANDLING
- ☐ STANDARD TEMPLATE LIBRARY
- ☐ PATTERNS AND UML

Description:

Given an arbitrary number X(double), a positive integer M, a positive integer N, and a character C, please output it as follows:

- The decimal (excluding the decimal point) must occupy N characters in the output and the decimal number N digits must be unconditionally discarded. If the decimal part of X is less than N digits, please make up 0.
- If the corrected number of X characters (including negative and decimal points) is less than M words, please fill in the input character C at the beginning of the number, so that the number of characters C plus the number itself contains exactly the number of characters. Meet the M digits.

Input:

Each line represents a group of X, M, N, and C. The four inputs are separated by spaces.

The program continues to ask for input, and ends if EOF is read.

Please note that C may be a space.

Output:

Each line is output according to the requirements of the topic.

Sample Input / Output :

Sample Input	Sample Output
3.14159265358979323846 5 2 G	G3.14
3.14 8 3 X	XXX3.140
3 8 0 C	CCCCCCC3
-3 8 5 C	-3.00000

- ☐ Easy, Only basic programming syntax and structure are required.

- | |
|--|
| <p><input checked="" type="checkbox"/> Medium, Multiple programming grammars and structures are required.</p> <p><input type="checkbox"/> Hard, Need to use multiple program structures or complex data types.</p> |
| Expected solving time: |
| 30 minutes |
| Other notes: |