**CPP Problem Design Example**

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| **Subject: Sum of big number** |
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| **Main testing concept: String**   |  |  | | --- | --- | | **Basics** | **Functions** | | ■ 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 | □ 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 two very large integers A, B, find the result of the sum operator for the two numbers.  **Input:**  Each input line has two integer numbers A and B () separated by space with standard input.  The Program should take multiple test input, Finish when read EOF.  **Output:**  Output the sum of the two numbers A and B.  **Sample Input / Output：**   |  |  | | --- | --- | | Sample Input | Sample Output | | 2222222222222222222222222 1111111111111111111111111  -999999999999999999999999 90000000 | 3333333333333333333333333  -99999999999999909999999 | |
| **□ Easy,Only basic programming syntax and structure are required.**  **■ Medium,Multiple programming grammars and structures are required.**  **□ Hard,Need to use multiple program structures or complex data types.** |
| **Expected solving time:**  15 minutes |
| **Other notes:**  The program should take multiple test inputs, finish when read EOF. |