## CPP 程式設計題

命題者:SCY	
題目名稱(中文/英文): Array to inte	ger
主要測試觀念:	
Basics	Functions
C++ BASICS 1  FLOW OF CONTROL  FINATION PROJECT	SEPARATE COMPILATION AND NAMESPACES STREAMS AND FILE I/O
■ FUNCTION BASICS □ PARAMETERS AND OVERLOADING	☐ RECURSION ☐ INHERITANCE
☐ ARRAYS ■ STRUCTURES AND CLASSES	☐ POLYMORPHISM AND VIRTUAL FUNCTIONS ☐ TEMPLATES
CONSTRUCTORS AND OTHER TOOLS	☐ LINKED DATA STRUCTURES
☐ OPERATOR OVERLOADING, FRIENDS, AND REFERENCES  STRINGS	<ul> <li>□ EXCEPTION HANDLING</li> <li>□ STANDARD TEMPLATE LIBRARY</li> </ul>
POINTERS AND DYNAMIC ARRAYS	PATTERNS AND UML
題目説明:Write a class that conve	rt a string into an integer. For
example, given the string "1234"	the function should return the
integer 1234. If you do some resear	ch, you will find that there is a
function named atoi and also the s	tringstream class that can do
this conversion for you. However,	in this Programming Project, you
should write your own code to do t	he conversion. Also write a
suitable test program.	
!!!Using class.	
class Atoi {	
private:	
string beTrans;	
char sign;	
public:	
Atoi();	
Atoi(string s);	
<pre>void SetString(string s);</pre>	
<pre>const string GetString();</pre>	
int Length();	
bool IsDigital();	
<pre>int StringToInteger();</pre>	
};	
輸入說明: input_main.cpp,input.tx	ĸt
輸出說明:output. txt 異輸出 atoi 前+20 的數字和直接 atoi	的數字

Length()是多少個數字

## StringToInteger()是印出轉換後的數字

## IO 範例:

	Sample Input	Sample Output
		4
		520
		4
		2
		5
		4
		4
		1120
		4
		2
		11
		ءً ا
		4
		4
		2320
		4
	input main ann	2
	input_main.cpp	23
		4
	05	4
		-1020
	11	4
		2
	23	-10
在 _ 细测容的龄		
第一組測資與輸 H	-10	4
ដ		3
	0	20
	ľ	4
	-11	1
		0
	9046	4
	8946	4
		-1120
	1891231	4
		2
		-11
		4
		6
		894620
		4
		4
		8946
		4
		9
		189123120
		4
		T
		17
		7 1891231

		7
		, 4650620
		4
		5
		46506
		4
		8
		-9650420
	input_main.cpp	4
		6
	46506	-96504
		4
第二組	-096504	7
		5640020
	56400	4
		5
	00494	56400
		4
		7
		49420
		4
		5
		494
		4
第三組		
附屬資料	•	

☑解答程式:ArrayToInteger.cpp(檔名) ☑測試資料:input.txt, output.txt

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□中, 需用到多項程式設計語法與結構

■難,需用到多項程式結構或較為複雜之資料型態或結構

解題時間:30分鐘。

其他註記:

main 使用 input\_main

class 架構僅供參考