## CPP Problem Design

Subject: Set Exercise					
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Main testing concept: STL					
Basics	Functions				
■ C++ BASICS  □ FLOW OF CONTROL  □ FUNCTION BASICS  □ PARAMETERS AND OVERLOADING  □ ARRAYS  □ STRUCTURES AND CLASSES  □ CONSTRUCTORS AND OTHER TOOLS  □ OPERATOR OVERLOADING, FRIENDS, AND REFEREN  □ 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:					
Consider a text file of names, with one name per line, that has been compiled from several different sources. A sample is shown in the following: Brooke Trout Dinah Soars Jed Dye Brooke Trout Jed Dye Paige Turner There are duplicate names in the file. We would like to generate an invitation list but do not want to send multiple invitations to the same person. Write a program that eliminates the duplicate names by using the set template class. Read each name from the file (name. txt), add it to the set, and then output all names in the set to generate the invitation list without duplicates.					
Input:					
Output: Output on console.					
Sample Input / Output:					
Sample Input	Sample Output				
name. txt	sample.out				
Eazy, Only basic programming sy	ntax and structure are required.				
☐ Medium, Multiple programming grammars and structures are required.					
☐ Hard, Need to use multiple program structures or more complex data types.					
Expected solving time:					
10 minutes					
Other notes:					
1. 必須使用std::set					
2. 輸出至console即可					