CPP Problem Design				
Subject: Classify A Poker Hand				
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Main testing concept: Sort, 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: Please write an evaluator for 5-card poker randomly draw from a full deck of 52 card hand will have both a suit (clubs, diamon (two, three, four, five, sir, seven, eigh ace). We'll assume that aces are high. The following categories (listed in order from (both a straight and a flush), Four-Of-A-	(without Jokers). Each card in the ds, hearts. or spades) and a rank at, nine, ten, jack, queen, king, or he hand is classified into one of the best to worst): Straight Flush			

Full House (a three-of-a-kind and a pair), Flush (five cards of the same suit), Straight (five cards with consecutive ranks), Three-Of-A-Kind (three cards of the same rank), Two Pairs, Pair (two cards of the same rank), Card (any other hand).

If a hand falls into two or more categories, the program will choose the best one. Note that for input purpose, we'll abbreviate ranks and suits as follows (in the ascending order and letters must be lower-case):

Ranks: 2 3 4 5 6 7 8 9 t j q k a

Suits: c d h s

If the user enters an illegal card or tries to enter the same card twice, the program will issue an error message "Illegal card", "Duplicate card", or "Illegal and Duplicate cards".

Input:

5 cards each represented by rank and suit; for instance 2s 3d 4h 5c 6d.

Output:

One of the category mentioned above and five cards in the ascending order or error messages.

Sample Input / Output:

Sample	Input	Sample Output

2s 5s 4s 3s 6S	Straight Flush 2s 3s 4s 5s 6s		
10 as 8C ad d2	Illegal card		
6s 2d 9c 4h ts	High Card 2d 4h 6s 9c ts		
Form Only basis programming synton and atmeeting are required			
Eazy, 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:			
40 minutes			
Other notes:			