

Computer Programming

Lab 4

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Palindrome

Given a string, determine if it is a palindrome.

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input: abcdeffedcba
```

```
true
```

Anagram

Given two input strings, determine if one string is an anagram of the other. Count alphabet characters only (ignore spaces and numbers, if any). Try to solve this problem without using an array.

Input1: Tom Marvolo Riddle

Input2: I am Lord Voldemort

True

Simple Card game

Card = {A, 2, 3, ..., 9, 10, J, Q, K} X {Diamond, Heart, Club, Spade}

Two players will draw card in turn and assume each card can be drawn repetitively. If one player draws a card that matches the shape of the other player's card, the player wins. Each card should be drawn at random.

<u>P1</u>	<u>P2</u>
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D2	H5
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HK

P1 wins!

Simple Card game

For extension

Output the information of card in the format like this:

Ace of Heart, 2 of Diamond, Queen of Spade

[A, J, Q, K] => [Ace, Jacks ,Queen, King]

P1

P2

Three of Spade

5 of Heart

Queen of Heart

P1 wins!