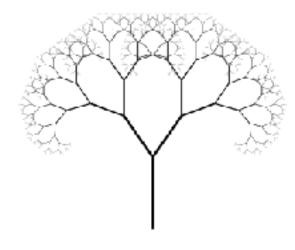
STRINGS RECURSION

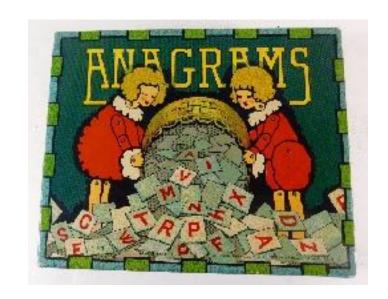




Problem Solving with Computers-I







Strings

Q1: How are ordinary arrays of characters and C-strings similar and how are they dissimilar?

The C++ string class methods

```
string fruit = "Apple";
int len = fruit.length();
int pos= fruit.find('l');
string part= fruit.substr(1,3);
fruit.erase(2,3);
fruit.insert(2, "ricot");
fruit.replace(2,5,"ple");
Check out cctype for checks and conversions on characters
fruit[0]= tolower(fruit[0]);
isalpha(fruit[0])
isalnum(fruit[0])
```

What is the output of the code?

- A. Mark Jill
- B. Mark Mark
- C. Art Mark
- D. Compiler error
- E. Run-time error

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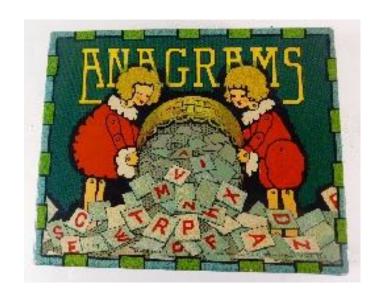
Lab 08: anagrams and palindromes

bool isPalindrome(string s1)

deTartraTED
WasItACarOrACatISaw

bool isAnagram(string s1, string s2)

Diba == Adib Rats and Mice == In cat's dream Waitress == A stew, Sir?



Why don't we pass the length of the string?

```
double sumList(Node* head) {
   [Needs a base case up here]
    double sumRest;
   sumRest = sumList(head->next);
   return head->data + sumRest;
                     50
        10
```