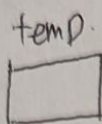
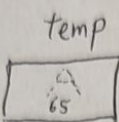


8. Reverse String — optimize, two pointer and swap.
9. compare two String. — Introduction of how computer compare two String.
10. check Palindrome. — identify what is Palindrome (if you reverse the String the String remains the same).
11. Finding ~~data~~ duplicate in String — HashTable with understanding ASCII Table.
12. Finding duplicates in a String using Bitwise Operation — Knowing Bitwise Operation
◀ left shift
merging
masking
13. check if 2 string are Anagram. — Understand what is anagram?
understand most significant bit
least significant bit.
14. Permutation of a String. 排列

- State Space Tree
- Back tracking
- Brutal Force
- recursion.
- swap

String. ASCII codes. unicodes.

char: 

How computer store character. 

character array. $X[5] = \{'A', 'B', 'C', 'D', 'E'\}$

char name[10] = {'J', 'O', 'H', 'N'};

0000
0001
0010
0011
0100
0101
0110
0111
1000
1001
1010
1011
1100
1101
1110
1111

$$2^8 = 256$$

String delimiters.

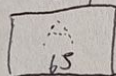
1. How computer store character

character set.
character encoding

2. character array. string.

3. Read / Write String

understand how computer identify string ends.

temp


ASCII code. — why 8 bit?

Unicode

14 bits

— how many different language store in computer

char[10] = {'J', 'O', 'H', 'N', '\0'};
= "John";

printf("%s", name);
scanf("%s", name);
gets(name); } one word.
sentence

UTF 8

4. Find length of a string. — knowing C++ end of string is '\0' string terminator

5. Change Case of a string. — knowing C++ compiler give character A, a ± 32.

6. Count words and vowels in a string — space separate words, spaces.
what is vowels? aeiou

7. validate string — special string

8. Reverse string — create new array and store the value using loop

from backward of array