# 1\ Tips

## 1.1 pre-judgement for simple optimization.

e.g. determine a string has unique characters.

decide two string are permutation.

## 1.2 if the distinct cases are limited, use array instead of map.

## 1.3 check character encoding.

# 2\ Data Structure

## 2.1 Stack and Queue

e.g. use two stacks to implement queue: lazy solution. Simulate the usage situaion and optimize.

# 3\ Algorithms

## 3.1 Calm down and really analyze it.

## If you meet problems, solve it instead of stop thinking or move back.

e.g. find the next node in binary search tree.