1. Largest Number

Given a list of non negative integers, arrange them such that they form the largest number.

**Example 1:**

Input: [10,2]  
Output: "210"

**Example 2:**

Input: [3,30,34,5,9]  
Output: "9534330"

**Note:** The result may be very large, so you need to return a string instead of an integer.

**解** 使用排序，自定义比较函数：对于数字a, b

* 如果ab > ba，则a > b
* 如果ab < ba，则a < b

然后调用sort函数

class Solution {  
public:  
 string largestNumber(vector<int>& nums) {  
 sort(nums.begin(), nums.end(), cmp);  
 string ans;  
 for(int x : nums)ans += to\_string(x);  
 while(ans.size() > 1 && ans[0] == '0')ans.erase(0, 1);  
 return ans;  
 }  
 static bool cmp(int n1, int n2){  
 int len1 = 0, len2 = 0;  
 int tmp1 = n1, tmp2 = n2;  
 do{  
 len1++;  
 n1 /= 10;  
 }while(n1 != 0);  
 do{  
 len2++;  
 n2 /= 10;  
 }while(n2 != 0);  
 return tmp1 \* pow(10, len2) + tmp2 > tmp1 + tmp2 \* pow(10, len1);  
 }  
};