/\*

Given a non-negative integer represented as a non-empty array of digits, plus one to the integer.

You may assume the integer do not contain any leading zero, except the number 0 itself.

The digits are stored such that the most significant digit is at the head of the list.

只能一位一位处理，不能全部提出来

\*/

class Solution {

public:

vector<int> plusOne(vector<int>& dig)

{

int flag=0;

int pos=dig.size()-1;

while(pos>=0)

{

if(pos==dig.size()-1)

{

if(dig[pos]<9)

{

dig[pos]++;

return dig;

}

else

{

dig[pos]=0;

flag=1;

}

}

else

{

if(dig[pos]+flag<10)

{

dig[pos]++;

return dig;

}

else

dig[pos]=0;

}

pos--;

}

if(flag==1)

{

dig.push\_back(0);

for(int i=dig.size()-1;i>=1;i--)

dig[i]=dig[i-1];

dig[0]=1;

}

return dig;

}

};