/\*

Rotate an array of n elements to the right by k steps.

For example, with n = 7 and k = 3, the array [1,2,3,4,5,6,7] is rotated to [5,6,7,1,2,3,4].

Note:

Try to come up as many solutions as you can, there are at least 3 different ways to solve this problem.

way-1:前面删一个移到后面

way-2:后面取出来往前面插

way-2:一个一个往后移，效率低下，就不写了

\*/

class Solution {

public:

void rotate(vector<int>& nums, int k)

{

//way-1

/\*

if(k==0)

return;

if(k>0)

{

k=k%nums.size();

k=nums.size()-k;

for(int i=1;i<=k;i++)

{

int temp=nums[0];

nums.erase(nums.begin());

nums.push\_back(temp);

}

}

else

{

k=k%nums.size();

k=nums.size()-k;

for(int i=1;i<=k;i++)

{

nums.erase(nums.begin());

nums.push\_back(0);

}

}

\*/

//way-2

if(k==0)

return;

if(k>0)

{

for(int i=0;i<k;i++)

{

int temp=nums[nums.size()-1];

nums.insert(nums.begin(),temp);

nums.pop\_back();

}

}

else

{

k=-k;

for(int i=0;i<k;i++)

{

nums.erase(nums.begin());

nums.push\_back(0);

}

}

}

};