**ROTATE ARRAY**

Given an integer array nums, rotate the array to the right by k steps, where k is non-negative.

**CODE**

class Solution {

public:

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

    {

     int n = nums.size();

        k = k % n;

        vector<int> temp(k);

        for (int i = 0; i < k; ++i)

        {

            temp[i] = nums[n - k + i];

        }

        for (int i = n - 1; i >= k; --i)

         {

            nums[i] = nums[i - k];

        }

        for (int i = 0; i < k; ++i)

        {

            nums[i] = temp[i];

        }

    }

};

**Example 1:**

**Input:** nums = [1,2,3,4,5,6,7], k = 3

**Output:** [5,6,7,1,2,3,4]

**Explanation:**

rotate 1 steps to the right: [7,1,2,3,4,5,6]

rotate 2 steps to the right: [6,7,1,2,3,4,5]

rotate 3 steps to the right: [5,6,7,1,2,3,4]

**Example 2:**

**Input:** nums = [-1,-100,3,99], k = 2

**Output:** [3,99,-1,-100]

**Explanation:**

rotate 1 steps to the right: [99,-1,-100,3]

rotate 2 steps to the right: [3,99,-1,-100]