```
void nextPermutation(int* nums, int numsSize) {
    int index;
    int last_num;
    int swap_index;
    int tmp;
    int left;
    int right;
    last_num = INT_MIN;
    for(index = numsSize-1; index >= 0; index--)
         if( (INT_MIN == last_num) )
             last_num = nums[index];
             if(last_num > nums[index])
                 break;
             }else
                 last_num = nums[index];
    }
    swap_index = index;
    if(swap_index >= 0)
         for(index = numsSize-1; index >= 0; index--)
             if (nums[index] > nums[swap_index])
                  tmp = nums[index];
                  nums[index] = nums[swap_index];
nums[swap_index] = tmp;
                  break;
             }else if(swap_index >= index)
                  break;
         }
    left = swap_index+1;
right = numsSize-1;
    while(left < right)</pre>
        tmp = nums[left];
nums[left] = nums[right];
nums[right] = tmp;
        left++;
        right--;
```