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Difficulty: Medium Accuracy: 40.66% Submissions: 237K+ Points: 4

Average Time: 20m

Given an array of integers **arr[]** representing a permutation, implement the **next permutation** that rearranges the numbers into the lexicographically next greater permutation. If no such permutation exists, rearrange the numbers into the lowest possible order (i.e., sorted in ascending order).

Note: A permutation of an array of integers refers to a specific arrangement of its elements in a sequence or linear order.

Examples:

Input: arr[] = [2, 4, 1, 7, 5, 0]Output: [2, 4, 5, 0, 1, 7] **Explanation:** The next permutation of the given array is [2, 4, 5, 0, 1, 7].

```
G
     C++ (12)
                        for(int i=n-1;i>0;i--)//found the pivot value
     8
     9
                     if(arr[i]>arr[i-1]){x=arr[i-1];
    10
                         index = i-1;
    11
    12
                         break;
    13
    14
                if(x==-1){}
    15
                     for(int i=0;i<n/2;i++)//last permutation given</pre>
    16
    17
                         int temp=arr[i];
    18
                         arr[i]=arr[n-1-i];
    19
                         arr[n-1-i]=temp;
    20
4 0
    21
    22
                else{
    23
                     for(int i=n-1;i>=index;i--)//swapping with just larger no.
    24
    25
                         if(arr[i]>x){
    26
                             int temp= arr[i];
    27
                             arr[i]=x;
    28
    29
                             arr[index]=temp;
    30
                             break;
    31
    32
                     for(int i=index+1 , j=n-1 ;i<j; j--,i++)//reversing suffix</pre>
    33
    34
                         swap(arr[i],arr[j]);
    35
```

Custom Input

Input: $arr[] = [3 \ 2 \ 1]$

