556. Next Greater Element III

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Description Hints Submissions Solutions

• Total Accepted: 3196

• Total Submissions: 11744

• Difficulty: Medium

• Contributors:a_silver_g

swap(arr[i],arr[j]);

reverse(arr.begin()+i+1,arr.end());

Given a positive **32-bit** integer **n**, you need to find the smallest **32-bit** integer which has exactly the same digits existing in the integer **n** and is greater in value than n. If no such positive **32-bit** integer exists, you need to return -1.

Example 1:

```
Input: 12Output: 21
```

Example 2:

```
Input: 21Output: -1

class Solution {
  public:
    int nextPermution(string &arr)
    {
       int lens = arr.size();
      int i=lens-2;
      while(i>=0 && arr[i+1]<=arr[i]) i--;
      if(i<0) return -1;
      int j=arr.size()-1;
      while(j>=0 && arr[j]<=arr[i]) j--;
</pre>
```

```
return 0;
}

int nextGreaterElement(int n) {
    stringstream ss; string s;
    ss<<n; ss>>s; ss.clear();
    int ret = nextPermution(s);
    if(ret==-1) return -1;
    if(s.size()>=10) return -1;
    return atoi(s.c_str());
}
```