Next Smaller Element

Same as Next Greater Element just change in while condition.

Code:

```
#include <bits/stdc++.h>
vector<int> nextSmallerElement(vector<int> &arr, int n)
    // Write your code here.
   stack<int> s;
    vector<int> ans;
    for(int i=n-1;i>=0;i--)
        if(s.empty())
        {
            ans.push_back(-1);
        }
        else
            while(!s.empty() && s.top()>=arr[i])
                s.pop();
            if(!s.empty())
                ans.push_back(s.top());
            }
            else{
                ans.push_back(-1);
            }
        s.push(arr[i]);
    reverse(ans.begin(), ans.end());
    return ans;
}
```

• Time Complexity : O(N)

Space Complexity : O(N)

Next Smaller Element 1