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Day-14 : Stack & Queue – 2

Problem 1: Next Smaller Element

```
def nearestSmaller(A):  
    stack = []  
    G = []
```

```
    for i in range(len(A):
```

```
        while stack and stack[-1] >= A[i]:stack.pop()
```

```
        if not stack: G.append(-1)
```

```
        else:
```

```
            G.append(stack[-1])
```

```
    stack.append(A[i])
```

```
    return G
```

```
    A = [4, 5, 2, 10, 8]
```


```
    print(nearestSmaller(A))
```

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```
14         stack.append(A[i])
15
16     return G
17 A = [4, 5, 2, 10, 8]
18 print(nearestSmaller(A))
19
```

input

```
[-1, 4, -1, 2, 2]

...Program finished with exit code 0
Press ENTER to exit console.
```
