

Day-14 : Stack & Queue - 2

Problem 1: Next Smaller Element

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))
```

Questions

Jobs new

Sign Up

Login

**GOT AN OPINION**

[About](#) • [FAQ](#) • [Blog](#) • [Terms of Use](#) • [Contact Us](#) • [GDB Tutorial](#) • [Credits](#) • [Privacy](#)

© 2016 - 2023 GDB Online

```
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.
```