

Problem 6: Given a circular integer array **A**, return the next greater element for every element in **A**. The next greater element for an element **x** is the first element greater than **x** that we come across while traversing the array in a clockwise manner. If it doesn't exist, return **-1** for this element.

```
def next_greater_elements(N, A):
```

```
    stack = []
```

```
    result = [-1] * N
```

```
    for _ in range(2):
```

```
        for i in range(N):
```

```
            while stack and A[i] > A[stack[-1]]:
```

```
                result[stack.pop()] = A[i]
```

```
            stack.append(i)
```

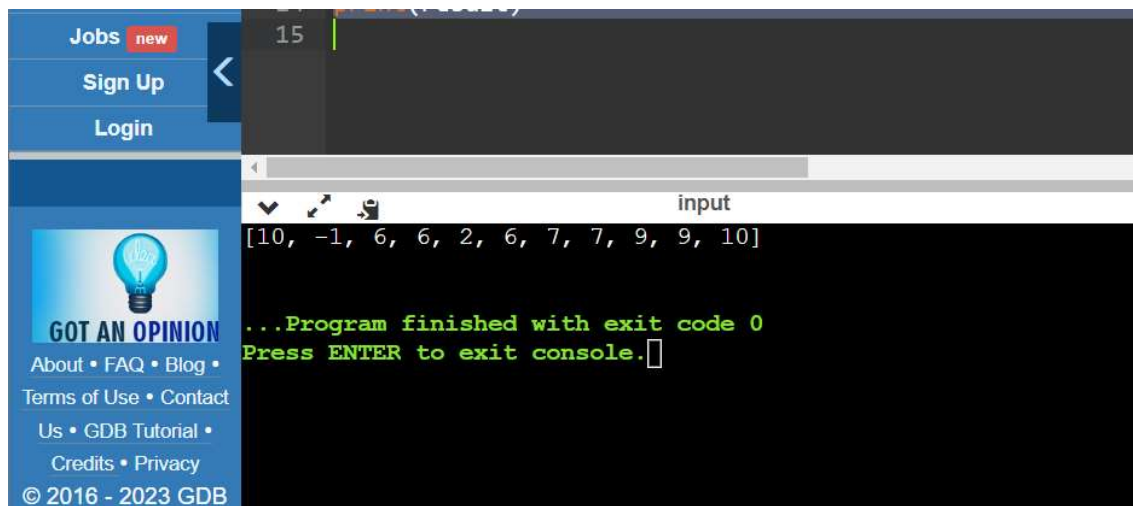
```
    return result
```

```
N = 11
```

```
A = [3, 10, 4, 2, 1, 2, 6, 1, 7, 2, 9]
```

```
result = next_greater_elements(N, A)
```

```
print(result)
```



The screenshot shows a web application interface. On the left is a blue sidebar with navigation links: "Jobs new", "Sign Up", "Login", "GOT AN OPINION" (with a lightbulb icon), "About • FAQ • Blog •", "Terms of Use • Contact Us • GDB Tutorial •", "Credits • Privacy", and "© 2016 - 2023 GDB". The main content area has a dark background. At the top, there's a header with "15" and a back arrow. Below that, there's a terminal window with the text "input" and the array "[10, -1, 6, 6, 2, 6, 7, 7, 9, 9, 10]". The terminal output shows "...Program finished with exit code 0" and "Press ENTER to exit console.".