Next creater Element: Given array of size N angle acomends.

find the next greater Elements to right side and replace it with the current smaller Element On the left side.

if No greater element found, replace it with -1.

Ex-1:

array = 
$$\begin{bmatrix} 2 & 4 & 5 & 4 \\ 2 & 4 & 8 & 3 & 1 & 20 & 11 \end{bmatrix}$$
  
answer =  $\begin{bmatrix} 4 & 8 & 20 & 20 & 20 & 1 & -1 \end{bmatrix}$ 

Iden-1: for overy index, check for the next greater Elements, once found, replace with currents index.

$$n = len (arruy)$$
ans =  $for + n$ 

for i in range (n):

For j in range (0+1, n).

if am[j]) am[j]:

ans[i] = an[t]

```
Ex-1:
                                  ans = [0 0 0 0 0 0 0]
                                          0 1 2 3 4 5 6
4 0 0 0 0 0 0 0
           em[i]> om[j]
               replace
               j=j+1=2
        = [2483120,11]
             orrij] > arrli]
             arr[2] > arr[1]
                 8 > 4
           All 8 at the first index
              in the answer array.
```

## Idea-2: Use Stack

## Last in first out

- 1) check if the stack is empty if empty, and the current evenent
- 1 if not empty check if the current element is greater than the element inside the stack.
- 3 17 greates, replace the larger element with smayer in answer array

		array = $[24831, 20, 11]$
		answer= [0000000]
6	11	-
S	20	1) Stack Empty? yes
14	1	, , _
3	3	all $1^{S\pm}$ index increment is $i=0+1=1$
X	# 2	Stack empty? NO  current Element > Stack Ele

Go inside, replace the stack's element with current & remove the Smayer element from 8 tack:

As we can observe, two indices are jett in stack, for those element as their is no greater element on right, put (1) instead of them