

Programming (/courses/programming)  
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/ Checkpoint: Level 4 (/courses/programming/checkpoint/4/)  
/ Nextgreater



## NEXTGREATER

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Given an array, find the next greater element  $G[i]$  for every element  $A[i]$  in the array. The Next greater Element for an element  $A[i]$  is the first greater element on the right side of  $A[i]$  in array.

More formally,

```
G[i] for an element A[i] = an element A[j] such that
j is minimum possible AND
j > i AND
A[j] > A[i]
```

Elements for which no greater element exist, consider next greater element as -1.

### Example:

Input : A : [4, 5, 2, 10]

Output : [5, 10, 10, -1]

### Example 2:

Input : A : [3, 2, 1]

Output : [-1, -1, -1]

[See Expected Output](#)