

#datastructures #sliding-window-1 #data-structure-1

Input

$$\begin{aligned} n &< 10^6 \\ k &< 10^5 \\ 1 &\leq k \leq n \end{aligned}$$

**(Edited:** In fact,  $n \leq 10^5$ )

## Output

print the output array

### Example

```

Input:
9
1 2 3 1 4 5 2 3 6
3

Output:
3 3 4 5 5 5 6

```

 Submit solution!

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Added by:	priyamehtanit
Date:	2012-02-09
Time limit:	1s
Source limit:	50000B
Memory limit:	1536MB
Cluster:	Cube (Intel G860)
Languages:	All except: ASM64
Resource:	own



**Nobody has rated this problem yet, maybe you'll be the first?**

### Concept difficulty

easy    normal    hard    extreme

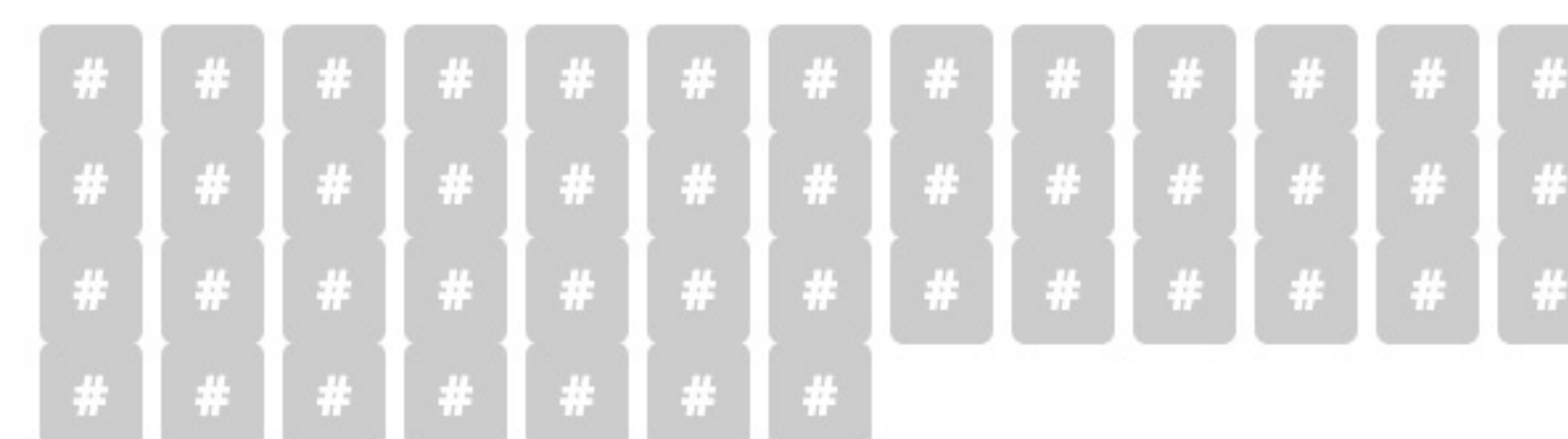
### Implementation difficulty

easy    normal    hard    extreme

 Recommend!



Own tags




Tag name


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<	Previous	1	2	3	4	5	6	7	8	9	10	11	Next	>
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 sohelr360: 2024-05-20 18:13:56  
You can solve it using monotonic queue in  $O(n)$ .


 **tobiasveiga**: 2023-12-10 13:04:12  
n <= 10^5 did not work for me. My solution only got accepted when I used n < 10^6

 **uditmehra\_827:** 2023-10-19 04:39:53  
do anyone have an approach without using set, multiset, i mean not using advantages of ds like multiset..?

 **mostafaasey25**: 2022-06-26 11:07:58  
my solution i hope its help : )  
<snip>  
[Simes]: No thanks. With 8500+ AC users what makes you think people want this?


**Last edit: 2022-06-26 15:48:34**

 manoj0606: 2022-03-21 13:22:04  
Simple solution using policy based ds in c++ :)

 **yasser1110**: 2021-07-23 16:03:48  
Really interesting problem. Learned tons from it. Solved it using c++ map. Because its implemented as a red black tree, we have  $O(\log n)$  inserts, lookups and deletes.

 h4ck3rsh4d0w: 2021-06-23 15:52:24  
AC in one go (used Max heap)

 nitin\_20: 2021-05-09 03:48:18  
Max of every k element

 **king:** 2021-02-10 16:45:56  
Simple bruteforce works.  
Use max element in cpp

 deerawat: 2021-01-03 10:19:56  
Brute force works!

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