

Scandalous Shweta

Problem	Submissions	Leaderboard	Discussions
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Shweta is a gossip girl and takes pleasure in revealing her friends' stories. She is looking to reveal 'k' of the shortest stories

Shweta has a total of 'N' friends and each of her friend has a story. Some stories take a longer time to reveal while some of them take a shorter time. Each of the 'N' stories has a time associated with it; 'The time to reveal that story'

Now, Shweta is given a number 'K', and her task is to reveal 'K' of the shortest stories from the 'N' available stories to reveal.

An array of size 'N' will be given as input where `Arr[i]` represents the time to reveal the 'i'th story, your task is to **output the shortest sub-sequence of size = k** from the given array "Arr"

We define that a subsequence A is shorter than a subsequence B (of the same length) if in the first position where A and B differ, subsequence A has a number less than the corresponding number in B. For example, [3,6,7,8] is shorter than [3,6,7,9] because the first position they differ is at the final number, and 8 is less than 9

NOTE: Try to come up with an O(N) to pass all test cases

Input Format

The first line contains the number 'N', the number of elements in "Arr"

The second line contains 'N' integers, the elements of the array "Arr"

The third line contains the number 'K', 1 <= K <= N

Constraints

1 <= N <= 5*10^8

1 <= Arr[i] <= 5*10^8

1 <= K <= N

Output Format

Print the shortest **sub-sequence** of size = K (space-separated integers) for the array Arr which represents the stories Shweta wants to reveal

Sample Input 0

```
7
1 2 7 3 6 3 2
4
```

Sample Output 0

```
1 2 3 2
```

Explanation 0

[1,2,3,2] is the shortest **sub-sequence**

NOTE : You have to output a sub-sequence and NOT a subarray

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Submissions: 163

Max Score: 100

Difficulty: Easy

Rate This Challenge:

☆☆☆☆☆

More

Current Buffer (saved locally, editable)

C++

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

