Array,Singly Linked List Question:

After getting a prestigious Award from ChiefGuest, Chan has become a celebrity at her university, and her facebook profile is full of friend requests. Being the nice girl she is, Christie has accepted all the requests.

Now Kishore is jealous of all the attention she is getting from other guys, so he asks her to delete some of the guys from her friend list.

To avoid a 'scene', Chan decides to remove some friends from her friend list, since she knows the popularity of each of the friends she has, she uses the following algorithm to delete a friend.

```
Algorithm Delete(Friend):
   DeleteFriend=false
   for i = 1 to Friend.length-1
        if (Friend[i].popularity < Friend[i+1].popularity)
          delete i th friend
          DeleteFriend=true
          break
   if(DeleteFriend == false)
      delete the last friend
```

Input:

First line contains a T number of test cases. First line of each test case contains N, the number of friends Chan currently has and K ,the number of friends Chan decides to delete. Next lines contain the popularity of her friends separated by space.

Output:

For each test case print N-K numbers which represent popularity of Chan friend's after deleting K friends.

Solution:

```
t=int(input())
for i in range(t):
  n, k = map(int, input().split())
  frnd = map(int, input().split())
  temp = []
  for i in frnd:
```

```
    while k and temp and temp[-1] < i:
      temp.pop()
      k -= 1
    temp.append(i)
  print(" ".join(map(str, temp)))
```

Test Case 1:

Input:

```
3
3 1
3 100 1
5 2
19 12 3 4 17
5 3
23 45 11 77 18
```

Output:

```
100 1
19 12 17
77 18
```

Test Case 2:

Input:

```
1
3 1
4 102 6
```

Output:

```
102 6
```

Test Case 3:

Input:

```
2
4 1
```

3 4 1 0
3 2
4 5 6

Output:

4 1 0
6

Test Case 4:
Input:
2
7 4
1 2 3 45 12 56 9
4 1
6 7 3 2

Output:
45 56 9
7 3 2