

# Largest lexicographic array with at-most K consecutive swaps

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#include <bits/stdc++.h>

using namespace std;

void largestLexicographic(vector<int> &arr, int &N, int &k) {
    for (int i = 0; i < N - 1 && k > 0; ++i) {
        int maxPos = i;
        for (int j = i + 1; j < N; ++j) {
            if (j - i > k) break;
            if (arr[j] > arr[maxPos]) {
                maxPos = j;
            }
        }
        for (int j = maxPos; j > i; --j) {
            swap(arr[j], arr[j - 1]);
        }
        k -= maxPos - i;
    }
}

int main() {
    vector<int> arr = {3, 5, 1, 2, 1};
    int N = 5, k = 3;
    largestLexicographic(arr, N, k);
    for (int i = 0; i < N; ++i)
        !i ? printf("%d", arr[i]) : printf(" %d", arr[i]);
    printf("\n");
    return 0;
}
```