```
1 #include <iostream>
 2 #include <queue>
3 #include <vector>
 4
 5 using namespace std;
7 void display_array(const vector<int>& A){
       for(int e : A) cout << e << " ";</pre>
8
9
       cout << endl;</pre>
10 }
11
12 // 0(n * log(k))
13 void k index away(vector<int>& A, int k){
14
       priority queue<int, vector<int>, greater<>> pg;
15
       for(int i = 0; i < k; i++)
16
           pq.push(A[i]);
17
       int idx = 0;
18
       for(int i = k + 1; i < A.size(); i++){
19
           pq.push(A[i]);
20
           A[idx++] = pq.top();
21
           pq.pop();
22
       }
23
       while(!pq.empty()){
24
           A[idx++] = pq.top();
25
           pq.pop();
26
       }
27 }
28
29 int main() {
30
       vector<int> A = \{2, 8, 0, 17, 5, 12\};
31
       k index away(A, 2);
32
       display array(A);
33 }
```