K largest elements in C++

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#include <iostream>
#include <queue>
#include <vector>
using namespace std;
void klargest(vector<int>& arr, int k) {
  priority_queue<int, vector<int>, greater<int>> pq;
  // Insert the first k elements into the min heap
  for (int i = 0; i < k; i++) {
     pq.push(arr[i]);
  // For each element from k to end of array, check if
it's larger than the smallest in the heap
  for (int i = k; i < arr.size(); i++) {
     if (pq.top() < arr[i]) {
       pq.pop();
       pq.push(arr[i]);
  }
  // Print the k largest elements
  cout << "K largest elements: ";</pre>
  while (!pq.empty()) {
     cout << pq.top() << " ";
     pq.pop();
  cout << endl;
int main() {
  // Hardcoded input array
  vector<int> arr = \{5, 15, 10, 20, 8, 25, 18\};
  int k = 3;
  // Call the klargest function to find and print the k
largest elements
  klargest(arr, k);
  return 0;
}
```

Step-by-Step Dry Run									
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Step	i	Element	Min Heap Before	Action	Min Heap After
Init	-	-	0	Start inserting first k=3	
1	0	5		Push 5	[5]
2	1	15	[5]	Push 15	[5, 15]
3	2	10	[5, 15]	Push 10	[5, 15, 10]
4	3	20	[5, 15, 10]	$20 > 5 \rightarrow$ pop 5, push 20	[10, 15, 20]
5	4	8	[10, 15, 20]	$8 < 10 \rightarrow do$ nothing	[10, 15, 20]
6	5	25	[10, 15, 20]	$25 > 10 \rightarrow$ pop 10, push 25	[15, 20, 25]
7	6	18	[15, 20, 25]	$18 > 15 \rightarrow$ pop 15, push 18	[18, 25, 20]

♥ Final Heap Contents: [18, 25, 20]

This heap now contains the top 3 largest elements: 18, 25, 20

■ Output:

K largest elements: 18 20 25

K largest elements: 18 20 25