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| --- |
| #include <iostream> |
|  | using namespace std; |
|  |  |
|  | void arrange(int newArray[], int arraySize) { |
|  | for (int i = 0; i < arraySize; i++) { |
|  | for (int j = 0; j < arraySize - 1; j++) { |
|  | int x = newArray[j]; |
|  | if (newArray[j] > newArray[j+1]) { |
|  | newArray[j] = newArray[j+1]; |
|  | newArray[j+1] = x; |
|  | } |
|  | } |
|  | } |
|  | } |
|  |  |
|  | int klargest(int newArray[], int arraySize, int k) { |
|  | arrange(newArray, arraySize); |
|  | return newArray[arraySize-k]; |
|  | } |
|  |  |
|  | int ksmallest(int newArray[], int arraySize, int k) { |
|  | arrange(newArray, arraySize); |
|  | return newArray[k-1]; |
|  | } |
|  |  |
|  | int main() { |
|  | int arraySize; |
|  | cout << "Enter the size of the array: "; |
|  | cin >> arraySize; |
|  |  |
|  | int newArray[arraySize]; |
|  |  |
|  | for (int i = 0; i <= arraySize - 1; i++) { |
|  | cout << "Enter element number " << i+1 << ": "; |
|  | cin >> newArray[i]; |
|  | } |
|  |  |
|  | int k; |
|  | cout << "Enter k: "; |
|  | cin >> k; |
|  |  |
|  | cout << "The kth largest element is " << klargest(newArray, arraySize, k) << endl; |
|  | cout << "The kth smallest element is " << ksmallest(newArray, arraySize, k) << endl; |
|  |  |
|  | return 0; |
|  | } |