```
1  /*
2      Blood, William
3
4      February 1, 2020
5
6      CS A250
7      Lab 1
8  */
9
10 #include <iostream>
11
12 void unshift(int a[], int& numOfElem, int idx) {
13     numOfElem--;                            // Reduces array size by 1
14     for (int k = idx; k < numOfElem; ++k)   // Shifts all elems from idx pos.
15         a[k] = a[k + 1];
16 }
17
18 void printArray(int a[], int numOfElem) {
19     for (int i = 0; i < numOfElem; ++i)     // Prints elems to cout stream
20         cout << a[i] << " ";
21 }
22
23 void deleteDuplicates(int a[], int& numOfElem) {
24     for (int i = 0; i < numOfElem; ++i) {   // Standard iterator
25         int nextIndex = i + 1;              // Location of possible duplicate
26         while (nextIndex < numOfElem) {     // Begins searching from dupe pos.
27             if (a[i] == a[nextIndex])       // Removes duplicate when encountered
28                 unshift(a, numOfElem, nextIndex);
29             else
30                 ++nextIndex;                // Advances to the next element
31         }
32     }
33 }
```