#include <stdio.h>

/\* Prints distinct elements of an array \*/

void printDistinctElements(int array[], int size) {

   int i, j, array1[size], temp, count = 0;

   for(i = 0; i < size; i++) {

      for(j = i+1; j < size; j++) {

         if(array[i] == array[j]) {

            /\* Duplicate element found \*/

            break;

         }

      }

      /\* If j is equal to size, it means we traversed whole

      array and didn't found a duplicate of array[i] \*/

      if(j == size) {

         array1[count++] = array[i];

      }

   }

   //sorting the array1 where only the distinct values are stored

   for ( i = 0; i < count-1; i++) {

      for ( j = i+1; j < count; j++) {

         if(array1[i]>array1[j]) {

            temp = array1[i];

            array1[i] = array1[j];

            array1[j] = temp;

         }

      }

   }

   for ( i = 0; i < count; ++i) {

      printf("%d ", array1[i]);

   }

}

int main() {

   int array[] = {4, 6, 5, 3, 4, 5, 2, 8, 7, 0};

   int n = sizeof(array)/sizeof(array[0]);

   printDistinctElements(array, n);

   return 0;

}

**Output**

0 2 3 4 5 6 7 8