

1. Write a C++ program to count the frequency of each element in an array using a map.

Input	Output
8 1 2 2 6 5 5 5 6	1: 1 2: 2 5: 3 6: 2

2. Write a C++ program to remove all duplicates from an array using a set.

Input	Output
8 1 2 2 6 5 5 5 6	1 2 5 6

3. Write a C++ program to sort an array in the increasing order of the values but you also need to memorize the index of the values before sorting.

Input	Output
5 4 6 2 1 7	Value 1, Previous Index 3 Value 2, Previous Index 2 Value 4, Previous Index 0 Value 6, Previous Index 1 Value 7, Previous Index 4

4. Write a C++ program to find the first duplicate element using a Map and print the index where it first occurred.

Input	Output
9 1 2 4 5 2 6 5 5 5	First duplicate element is 2, first occurring at index 1.

5. Write a C++ program to find the intersection of two arrays using a set.

Input	Output
5 1 2 3 4 5 6 3 4 5 6 7 9	3 4 5

The first array is [1,2,3,4,5] and the second array is [3,4,5,6,7,9]. Their intersection is [3,4,5]

6. Write a C++ program to print the maximum occurring word in a text. If there are multiple words occurring maximum time then print the lexicographically smallest one.

Input	Output
This is a sample text is a text lol hi is text	Maximum occurring word is "is". Occurring 3 times.