Finding the maximum sum lane using C++

Given two arrays A and B representing two lanes of a route, we can start from any where and can switch the lane if there is a same value at the same index, from this we can find the maximum sum route and to return back the sum.

**Code Explanation:**

In the code I have defined a function named dis, which is used to find the distance between two iterators.

In the main code, firstly we take the sizes of the 2 inputs, corresponding values to the array 1, while taking values for the array 2, I have put the indexes which have the common value in both the arrays in a vector.

Now we start from index 1st to the 2nd element of the vector (which has index values) and check the which lane gives the maximum sum with the help of the dis function and store the sum in the variable (here res). We have to repeat to find the max sum till we reach the last element of the vector. We also check for the index which is the last element of the vector to the last element of the respective arrays. And keep on adding the sum value to the res value.

On reaching the end we get the maximum sum of the lane.

**Applications:**

This code can be used by apps which shows the distance, games for collecting maximum points.

The code file is also attached with this report.