Beta

**Merge two sorted arrays**

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C++

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Write a function that given two sorted arrays of integer numbers, it merges them in a sorted way.

**Note:**

You can assume that output has enough space (size that is greater or equal to m + n). The number of elements initialized in input1\_ and input2 are m and n respectively.

<https://www.codewars.com/kata/merge-two-sorted-arrays/cpp>

#include <iostream>

#include<stdio.h>

using namespace std;

void merge\_sorted\_arrays(const int input1[],const int input2[], int output[],const int size1, const int size2)

{

int i =0, j=0, k =0;

while(i<size1 && j<size2) {

if(input1[i] <= input2[j]) {

output[k] = input1[i];

k++;

i++;

}

else {

output[k] = input2[j];

k++;

j++;

}

}

while(i<size1) {

output[k] = input1[i];

k++;

i++;

}

while(j<size2) {

output[k] = input2[j];

k++;

j++;

}

}

int main() {

// test ex2

int array1[] = { 0,0,1,2,3,10,15,21,25,63,69 };

int array2[] = { 0,2,8,10,25,36,42 };

//int output\_gt[] = {0,0,0,1,2,2,3,8,10,10,15,21,25,25,36,42,63,69};

int size1 = 11, size2 = 7;

int out[size1+size2];

merge\_sorted\_arrays(array1, array2,out, size1, size2 );

for(int i =0; i<size1+size2; i++){

cout << out[i] << " ";

}

return 0;

}