// C++ Program to move all zeros to end using temporary array

#include <bits/stdc++.h>

using namespace std;

// function to move all zeros to the end

void pushZerosToEnd(vector<int> &arr) {

int n = arr.size();

vector<int> temp(n);

// to keep track of the index in temp[]

int j = 0;

// Copy non-zero elements to temp[]

for (int i = 0; i < n; i++) {

if (arr[i] != 0)

temp[j++] = arr[i];

}

// Fill remaining positions in temp[] with zeros

while (j < n) {

temp[j++] = 0;

}

// Copy all the elements from temp[] to arr[]

for (int i = 0; i < n; i++)

arr[i] = temp[i];

}

int main() {

vector<int> arr = {1, 2, 0, 4, 3, 0, 5, 0};

pushZerosToEnd(arr);

// Print the modified array

for (int num : arr) {

cout << num << " ";

}

return 0;

}