



Fenerbahçe Üniversitesi
BLM 102 – Algoritmalar ve Programlama I
Ödev 1: Vektörler
Çözümler

Soru 1:

```
#include <iostream>
#include <vector>
using namespace std;
vector<int> fonksiyon(vector<int> vector1, vector<int> vector2) {
    vector<int> vector3;
    for (int i = 0; i < vector1.size(); i++)
    {
        vector3.push_back(vector1[i]);
    }
    for (int i = 0; i < vector2.size(); i++)
    {
        vector3.push_back(vector2[i]);
    }
    return vector3;
}
int main()
{
    vector<int>vector3;
    vector<int>vector1 = { 1,3,5,6,7,8,9 };
    vector<int>vector2 = { 0,0,0,3,2,1,3,5,6 };
    vector3 = fonksiyon(vector1, vector2);
    for (int i = 0; i < vector3.size(); i++)
    {
        cout << " " << vector3[i];
    }
}
```

Soru 2:

```
#include <iostream>
#include<vector>

using namespace std;

void swap(int* xp, int* yp)
{
    int temp = *xp;
    *xp = *yp;
    *yp = temp;
}
// A function to implement bubble sort
void bubbleSort(vector<int> &arr, int n)
{
    int i, j;
    for (i = 0; i < n - 1; i++)
        // Last i elements are already in place
        for (j = 0; j < n - i - 1; j++)
            if (arr[j] > arr[j + 1])
                swap(&arr[j], &arr[j + 1]);
}
/* Function to print an array */
void printArray(vector<int> arr, int size)
{
    int i;
    for (i = 0; i < size; i++)
        cout << arr[i] << " ";
    cout << endl;
}
// Driver code
int main()
{
    vector<int> arr = { 64, 34, 25, 12, 22, 11, 90 };
    int n = arr.size();
    bubbleSort(arr, n);
    cout << "Sorted array: \n";
    printArray(arr, n);
    return 0;
}
```