ĐÁP ÁN BUỔI 14

Bài 1.

```cpp
#include<iostream>
using namespace std;
void NhapMang(int a[], int& n) {
    cout << "Nhap n: ";
    cin >> n;
    for (int i = 0; i < n; i++) {
        cout << "a[" << i << "] = ";
        cin >> a[i];
    }
}

//Cau a
void SoAmChiaHetCho5(int a[], int n)
{
    for (int i = 0; i < n; i++)
    {
        if (a[i] < 0 && a[i] % 5 == 0)
            cout << a[i] << " ";
    }
    cout << endl;
}

int CauB(int a[], int n) {
    int S = 0;
    for (int i = 0; i < n; i++) {
        if (a[i] > 0 && a[i] % 3 != 0)
            S += a[i];
    }
    return S;
}

// Tinh tong day a
int Tong(int a[], int n)
{
    int S = 0;
    for (int i = 0; i < n; i++)
        S += a[i];
    return S;
}

void CauC(int a[], int n)
{
```

```cpp
        int S = Tong(a, n);
        for (int i = 0; i < n; i++)
        {
            if (a[i] > S)
                cout << a[i] << " ";
        }
}
int main() {
        int a[100], n;
        NhapMang(a, n);
        cout << "Cac so nguyen am chia het cho 5: ";
        SoAmChiaHetCho5(a, n);
        cout << "Tong cac so nguyen duong khong chia het cho 3 = "
            << CauB(a, n) << endl;
        cout << "Cac so nguyen lon hon tong cac phan tu trong mang: ";
        CauC(a, n);
}
```

Bài 2.

```cpp
#include<iostream>
#include<ctime>
using namespace std;

void NhapMang(int a[], int& n)
{
        cout << "Nhap n: ";
        cin >> n;
        for (int i = 0; i < n; i++)
            a[i] = rand() % 100;
}

void XuatMang(int a[], int n)
{
        for (int i = 0; i < n; i++)
            cout << a[i] << " ";
        cout << endl;
}

void HoanDoi(int& a, int& b)
{
        int temp = a;
        a = b;
        b = temp;
}
```

```cpp
void DaoNguoc(int a[], int n)
{
    for (int i = 0; i < n / 2; i++)
        HoanDoi(a[i], a[n - 1 - i]);
}

int main()
{
    srand(time(0));
    int a[100], n;
    NhapMang(a, n);
    cout << "Mang da nhap:\n";
    XuatMang(a, n);
    cout << "Mang dao nguoc:\n";
    DaoNguoc(a, n);
    XuatMang(a, n);
}
```

Bài 3.

```cpp
#include<iostream>
using namespace std;

void NhapMang(int a[], int& n)
{
    cout << "Nhap n: ";
    cin >> n;
    for (int i = 0; i < n; i++)
    {
        cout << "a[" << i << "] = ";
        cin >> a[i];
    }
}

bool DoiXung(int a[], int n)
{
    for (int i = 0; i < n / 2; i++)
    {
        if (a[i] != a[n - i - 1])
            return false;
    }
    return true;
}
```

```cpp
int main()
{
    int a[100], n;
    NhapMang(a, n);
    if (DoiXung(a, n) == true)
        cout << "Mang doi xung";
    else
        cout << "Mang khong doi xung";
}
```

Bài 4.

```cpp
#include<iostream>
using namespace std;

void NhapMang(int a[], int& n)
{
    cout << "Nhap n: ";
    cin >> n;
    for (int i = 0; i < n; i++)
    {
        cout << "a[" << i << "] = ";
        cin >> a[i];
    }
}

int TimKiemNhiPhan(int a[], int n, int x)
{
    int dau = 0, cuoi = n - 1, giua;
    while (dau <= cuoi)
    {
        giua = (dau + cuoi) / 2;
        if (a[giua] == x)
            return giua;

        if (x < a[giua])
            cuoi = giua - 1;
        else
            dau = giua + 1;
    }
    return -1;
}

int main()
{
```

```cpp
    int a[100], n, x;
    NhapMang(a, n);
    cout << "Nhap x: ";
    cin >> x;
    int viTri = TimKiemNhiPhan(a, n, x);
    if (viTri == -1)
        cout << "Khong tim thay phan tu " << x;
    else
        cout << "Tim duoc phan tu " << x << " tai vi tri " << viTri;
}
```