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//Bai tap phan mang

#include<stdio.h>

#include<conio.h>

#include<iostream>

using namespace std;

#define MAX 10

// Khai bao cac prototype,

// khai bao nay la khong can thiet neu dat cau lenh
duoi main

// tuy nhien, lam cach nay se tien hon trong viec
kiem tra - phat hien cac loi

void nhapMang(int a[],int n);
void xuatMang(int a[],int n);
int chiaHet(int a[],int n);
void numMax(int a[],int n);
void soKhong(int a[],int n);
int dayTang(int a[],int n);
void sxptTang(int a[],int n);
void HoanVi(int &x,int &y);
int timSo(int a[],int n,int z);

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float chiaTBDuong(int a[],int n);

int ktDuong(int a[],int n);

int main()
{
    int s=0,n,z;

    int b[MAX];

    do
    {
        cout<<"Nhap so phan tu (toi da la "<<MAX<<"
phan tu ) : ";

        cin>>n;

        if(n>MAX)
        {
            cout<<"BAN NHAP SO QUA LON, VUI LONG NHAP
LAI \n";

            cout<<"\n\n-----
-----\n\n";

        }

    }while(n>MAX);

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        cout<<"\n=====
=====\\n\\n";

        b[n];

        nhapMang(b,n);

        cout<<"\n-----
-----\\n\\n";

        cout<<"Day so co trong mang : ";

        xuatMang(b,n);

        cout<<"Cac so co trong mang chia het cho 5 la :
";

        if(chiaHet(b,n))cout<<"khong co so nao ca !";

        cout<<"\n-----
-----\\n\\n";

        cout<<"\nTong cac so duong co trong mang : ";

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

        {

            if(b[i]>0)

            {

                s+=b[i];

            }

        }

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    }

    cout<<s<<"\n";

    cout<<"\n-----
-----\n\n";

    cout<<"So lon nhat co trong mang la : ";

    numMax(b,n);

    cout<<"\n-----
-----\n\n";

    cout<<"Cac so KHONG (so 0) co trong mang la :
";

    soKhong(b,n);

    cout<<"\n-----
-----\n\n";

    if(ktDuong(b,n))    cout<<"TB cong cac so duong
co trong mang la : "<<chiaTBDuong(b,n)<<"\n";

    else cout<<"Khong co so duong nao trong mang ca
!!!\n";

    cout<<"\n-----
-----\n\n";

    if(dayTang(b,n)) cout<<"\n\nDay la day so tang
! \n";

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        else cout<<"\nDay khong phai la day so tang !
\n";

        cout<<"\n-----
-----\n\n";

        cout<<"Day so ban dau : ";

        xuatMang(b,n);

        cout<<"Day sau khi sap xep pt thu tu tang dan :
";

        sxptTang(b,n);

        xuatMang(b,n); //ham nay co nhiem vu in cac
phan tu mang sau khi sap xep

        cout<<"\n=====
=====\\n\\n";

        cout<<"Nhap vao so can tim trong mang : ";

        cin>>z;

        cout<<"Mang co "<<timSo(b,n,z)<<" so
"<<z<<"\\n";

        cout<<"\n-----
-----\\n\\n";

        getch();

        return 0;

```

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}

void nhapMang(int a[],int n)
{
    for(int i=0;i<n;i++)
    {
        cout<<"Nhap vao phan tu thu "<<i<<" : ";
        cin>>a[i];
    }
}

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

```

