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#include<stdio.h>
#include<conio.h>
#include<iostream>
using namespace std;
// Cau 1
float S(int n)
{
    float tong = 0;
    for(int i=1;i<=n;i++)
        tong=tong+1/(float (i*(i+1)));
    return tong;
}

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// Cau 2
int F(int n)
{
    if(n==1) return 2;
    if(n==2) return 3;
    return 3*F(n-1) + 7*F(n-2)+2;
}

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// Cau 3a
void NhapMang(int a[], int &n)
{
    printf("\n Nhap vao so phan tu cua mang ");scanf("%d",&n);
    for(int i=0;i<n;i++)
    {
        printf("\nNhap vao phan tu a[%d] = ",i);scanf("%d",&a[i]);
    }
}

void XuatMang(int a[], int n)
{
    printf("\n Mang ban vua nhap la: ");
    for(int i=0;i<n;i++)

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        printf("%d, ",a[i]);
    }
void Xuat2DongLe(int a[], int n)
{
    printf("\n Cac Phan Tu Co Chi So Le la: ");
    for(int i=0;i<n;i++)
    {
        if(i%2==1)
        {
            cout<<a[i]<<" ";
        }
    }
    printf("\n Cac Phan Tu La So Le la: ");
    for(int i=0;i<n;i++)
    {
        if(a[i]%2==1)
        {
            cout<<a[i]<<" ";
        }
    }
}

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// Cau 3b

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void XoaPhanTuChan(int a[], int &n)
{
    for(int i=0;i<n;i++)
    {
        if(a[i]%2==0)
        {
            for(int j=i;j<n;j++)
                a[j]=a[j+1];
            i--;
            n--;
        }
    }
}

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    }
}

// Cau 04
struct NHANVIEN
{
    char MaNV[10];
    char TenNV[25];
    char PhongBan[15];
    int NamSinh;
    float Luong;
};

void NhapNhanVien(NHANVIEN a[], int &n)
{
    printf("\n Nhap vao so nhan vien cua cong ty: ");scanf("%d",&n);
    fflush(stdin);
    for(int i=0;i<n;i++)
    {
        printf("\n Nhap vao ban nhan vien thu %d ",i);
        printf("\n Nhap vao MaNV ");gets(a[i].MaNV);
        printf("\n Nhap vao TenNV ");gets(a[i].TenNV);
        printf("\n Nhap vao PhongBan ");gets(a[i].PhongBan);
        printf("\n Nhap vao NamSinh ");scanf("%d",&a[i].NamSinh);
        printf("\n Nhap vao Luong ");scanf("%f",&a[i].Luong);
        fflush(stdin);
    }
}

void XuatNhanVien(NHANVIEN a[], int n)
{
    printf("\n DANH SACH NHAN VIEN BAN VUA NHAP LA ");

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printf("\nSTT\tMANV\tTENNV\tPHONGBAN\tNAMSINH\tLUONG");
printf("\n-----");
for(int i=0;i<n;i++)

    printf("\n%d\t%s\t%s\t%s\t\t%d\t%.0f",i+1,a[i].MaNV,a[i].TenNV,a[i].PhongBan,a[i].NamSinh,a[i].Luong);
    printf("\n-----");
}

void DemNhanVienLuongLonHon_x(NHANVIEN nv[], int n, float &x)
{
    int dem=0;
    printf("\n Nhap vao x can kiem tra: ");scanf("%f",&x);
    for(int i=0;i<n;i++)
        if(nv[i].Luong>=x)    dem++;
    printf("\nSo Nhan Vien Co Luong > %.1f la = %d ",x,dem);

}

void TrungBinhLuong(NHANVIEN nv[], int n)
{
    float tb=0;
    for(int i=0;i<n;i++)
        tb=tb+nv[i].Luong;
    printf("\n\t LUONG TRUNG BINH = %.1f",tb/n);
}

int main()
{
    // Cau 01 va Cau 02
    int n;
    printf("\n Nhap n nguyen duong = ");scanf("%d",&n);
    printf("\n S = %.2f",S(n));
}

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printf("\n F = %d",F(n));
// Cau 03
int a[50], n;
NhapMang(a,n);
XuatMang(a,n);
Xuat2DongLe(a,n);
XoaPhanTuChan(a,n);
XuatMang(a,n);
// Cau 04
NHANVIEN nv[50];
int n;
float x;
NhapNhanVien(nv,n);
XuatNhanVien(nv,n);
DemNhanVienLuongLonHon_x(nv,n,x);
TrungBinhLuong(nv,n);
getch();
return 0;
}

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