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#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<malloc.h>

struct SINHVIEN
{
    char MASV[15];
    char TENSX[30];
    int NAMSINH;
    float DIEM;
};

void NhapMang(SINHVIEN a[100], int &n)
{
    printf("\n Nhap vao so sinh vien cua lop
");scanf("%d",&n);
    fflush(stdin);
    for(int i=0;i<n;i++)
    {
        printf("\n Nhap vao ban sinh vien thu %d ",i);

        printf("\n Nhap vao MASV ");gets(a[i].MASV);
        printf("\n Nhap vao TENSX ");gets(a[i].TENSX);
        printf("\n Nhap vao NAMSINH ");
        scanf("%d",&a[i].NAMSINH);
    }
}

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        printf("\n Nhap vao DIEMTB ");
        scanf("%f",&a[i].DIEM);
        fflush(stdin);

    }
}

void XuatMang(SINHVIEN a[100], int n)
{
    printf("\n DANH SACH SINH VIEN BAN VUA NHAP LA ");
    printf("\nSTT\tMASV\tTENS\tNAMSINH\tDIEM");
    printf("\n-----");
    for(int i=0;i<n;i++)

        printf("\n%d\t%s\t%s\t%d\t%.2f",i+1,a[i].MASV,a[i].TENS,a[i].NAMSINH,a[i].DIEM);
        printf("\n-----");
    }

void TimKiem(SINHVIEN a[100], int n, char MaCanTim[15])
{
    printf("\n Nhap vao MASV can tim ");gets(MaCanTim);
    for(int i=0;i<n;i++)
        if(strcmp(a[i].MASV,MaCanTim)==0)
        {
            printf("\n Da Tim Thay Du Lieu ");

            printf("\nSTT\tMASV\tTENS\tNAMSINH\tDIEM");
            printf("\n-----");
        }
    }

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        printf("\n%d\t%s\t%s\t%d\t%.2f",i+1,a[i].MASV,a[i].
TENSX,a[i].NAMSINH,a[i].DIEM);

                printf("\n-----");

        }

}

void TrungBinh(SINHVIEN a[100], int n)
{
    float tb=0;
    for(int i=0;i<n;i++)
        tb=tb+a[i].DIEM;
    printf("\n DIEM TRUNG BINH = %.2f",tb/n);

}

int main()
{
    int n;
    char MaCanTim[15];
    SINHVIEN a[100];
    NhapMang(a,n);
    XuatMang(a,n);
    TimKiem(a,n,MaCanTim);

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    TrungBinh(a,n);  
    getch();  
    return 0;  
}
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