

```

#include <stdio.h>

typedef struct{
    char hovaten[55];
    float d1, d2, d3;
}Sinhvien;

void nhapmang(Sinhvien a[], int n);
void inmang(Sinhvien a[], int n);

int main()
{
    int n, i;
    Sinhvien a[100];
    FILE * fin, *fout; // khai bao file
    // nhap tu ban phim
    printf("Nhap so phan tu n=");
    scanf("%d", &n);
    nhapmang(a, n);
    // ghi vao file
    fout = fopen("sinhvien.txt", "wt");
    fprintf(fout, "%d\n", n);
    for (i = 0; i < n; ++i)
    {
        fprintf(fout, "%s\n", a[i].hovaten);
        fprintf(fout, "%.2f %.2f %.2f\n", a[i].d1, a[i].d2,
a[i].d3);
    }
    fclose(fout);
    // doc tu file
    fin = fopen("sinhvien.txt", "rt");
    fscanf(fin, "%d\n", &n);
    for (i = 0; i < n; ++i)
    {
        fgets(a[i].hovaten, 55, fin);
        fscanf(fin, "%f %f %f\n", &a[i].d1, &a[i].d2, &a[i].d3);
    }
    fclose(fin);

    printf("Mang vua doc tu file la:\n");
    inmang(a, n);
    return 0;
}

void nhapmang(Sinhvien a[], int n)
{
    int i;
    for (i = 0; i < n; i++)

```

```
{
    printf("Nhap ho va ten:");
    fflush(stdin);
    gets(a[i].hovaten);
    fflush(stdin);
    printf("Nhap diem mon 1:");
    scanf("%f", &a[i].d1);
    printf("Nhap diem mon 2:");
    scanf("%f", &a[i].d2);
    printf("Nhap diem mon 3:");
    scanf("%f", &a[i].d3);
}
}

void inmang(Sinhvien a[], int n)
{
    int i;
    for (i = 0; i < n; i++)
    {
        printf("Ho va ten:%s\n", a[i].hovaten);
        printf("Diem mon 1:%.2f\n", a[i].d1);
        printf("Diem mon 2:%.2f\n", a[i].d2);
        printf("Diem mon 3:%.2f\n", a[i].d3);
    }
}
```