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```
#include <conio.h>
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
struct ogrenci {
```

```
    int no;
```

```
    char isim[40];
```

```
    int vize, final;
```

```
    struct ogrenci *sonraki;
```

```
};
```

```
typedef struct ogrenci dugum;
```

```
dugum *head, *yeniDugum, *enBasarili, *p, *q;
```

```
void kayitEkle() {
```

```
    int kayitSayisi = 0;
```

```
    printf("Kac ogrenci gireceksiniz : ");
```

```
    scanf("%d", &kayitSayisi);
```

```
    for (int i = 0; i < kayitSayisi; i++) {
```

```
        yeniDugum = (dugum *)malloc(sizeof(dugum));
```

```
        p->sonraki = yeniDugum;
```

```
        printf("Ogrenci No : ");
```

```
        scanf("%d", &yeniDugum->no);
```

```
        printf("Ogrenci Isim : ");
```

```
        scanf("%s", yeniDugum->isim);
```

```
        printf("Ogrenci Vize Notu : ");
```

```
        scanf("%d", &yeniDugum->vize);
```

```
        printf("Ogrenci Final Notu : ");
```

```
scanf("%d", &yeniDugum->final);  
p = p->sonraki;  
yeniDugum = yeniDugum->sonraki;  
}  
p->sonraki = NULL;  
}
```

```
float notHesapla(int vize, int final) {  
    return (vize * 0.4) + (final * 0.6);  
}
```

```
void kayitListele(int altLimit) {  
    q = head->sonraki;  
    while (q != NULL) {  
        if (notHesapla(q->vize, q->final) >= altLimit) {  
            printf("Ogrenci No : %d\t", q->no);  
            printf("Ogrenci Ad : %s\t", q->isim);  
            printf("Ogrenci Vize : %d\t", q->vize);  
            printf("Ogrenci Final : %d\t", q->final);  
            printf("Ortalama Not : %.2f\t\n", notHesapla(q->vize, q->final));  
        }  
        q = q->sonraki;  
    }  
}
```

```
void kayitGuncelle(int no) {  
    int secim;  
    q = head->sonraki;  
    while (q != NULL) {  
        if (q->no == no) {  
            while (1) {
```

```
printf("Guncellemek istediginiz secenegi giriniz : No[1]\t Isim[2]\t Vize Notu[3]\t Final
Notu[4] Ust Menu icin [0]: ");
scanf("%d", &secim);
switch (secim) {
case 1:
printf("Guncellenecek no degerini giriniz : ");
scanf("%d", &q->no);
break;
case 2:
printf("Guncellenecek isimi giriniz : ");
scanf("%s", q->isim);
break;
case 3:
printf("Guncellenecek vize notunu giriniz : ");
scanf("%d", &q->vize);
break;
case 4:
printf("Guncellecek final notunu giriniz : ");
scanf("%d", &q->final);
break;
}
if (secim == 0) {
break;
}
}
break;
}
q = q->sonraki;
}
}
```

```

void ortalamaHesapla() {
    q = head->sonraki;
    float toplam = 0;
    int sayac = 0;
    if (q == NULL) {
        printf("Listede kimse yok");
    } else {
        for (; q != NULL; sayac++, q = q->sonraki) {
            toplam += notHesapla(q->vize, q->final);
        }
        printf("Sinif ortalamasi : %.2f\n", toplam / sayac);
    }
}

```

```

void enBasariliOgrenciGoster() {

    q = head->sonraki;
    enBasarili = head->sonraki;

    while (q->sonraki != NULL) {
        q = q->sonraki;
        if (notHesapla(q->vize, q->final) > notHesapla(enBasarili->vize, enBasarili->final)) {
            enBasarili = q;
        }
    }

    printf("En basarili ogrenci :\n");

    printf("No : %d\t Isim : %s\t Vize : %d\t Final : %d\t Ortalama : %.2f\n", enBasarili->no, enBasarili->isim, enBasarili->vize, enBasarili->final, notHesapla(enBasarili->vize, enBasarili->final));
}

```

```
int main() {

    int secim = 0;

    int altLimit = 0;

    int guncellemeNo = 0;

    printf("1. Yeni Kayit Ekleme\n2. Kayit Listeleme\n3. Kayit Guncelleme\n4. Sinif Ortalamasi Hesapla\n5. Ortalamaya Gore En Basarili Ogrenci Bilgisini Goster\n");

    head = (dugum *)malloc(sizeof(dugum));

    p = head;

    head->sonraki = NULL;

    while (1) {

        printf("Secim Yap [1 - 5] [Programdan cikmak icin 0'a bas] : ");

        scanf("%d", &secim);

        switch (secim) {

            case 1:

                kayitEkle();

                break;

            case 2:

                printf("Ortalama alt limiti giriniz :");

                scanf("%d", &altLimit);

                kayitListele(altLimit);

                break;

            case 3:

                printf("Kaydini guncellemek istediginiz ogrencinin numarasini giriniz : ");

                scanf("%d", &guncellemeNo);

                kayitGuncelle(guncellemeNo);

                break;

            case 4:

                ortalamaHesapla();

                break;

            case 5:
```

```
        enBasariliOgrenciGoster();  
        break;  
    case 0:  
        exit(0);  
        break;  
    }  
}  
  
getch();  
return 0;  
}
```