#include<stdio.h>

#include<string.h>

struct HOCSINH

{

char hoten[20];

char gt[20];

int khuvuc;

float diemtb;

int NH;

};

void XuatHS(struct HOCSINH hs[],int n)

{

int i,j,u;

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

{

for(j=i+1;j<n;j++)

{

if(hs[i].diemtb<hs[j].diemtb)

{

u = hs[i].diemtb;

hs[i].diemtb = hs[j].diemtb;

hs[j].diemtb = u;

}

}

printf ("\n \*\*\*\*\*\*\*\*\* BANG THONG TIN SINH VIEN \*\*\*\*\*\*\*\*\*\*\*");

printf("\n\nsinh vien thu %d: ",i+1);

printf("\n ho ten: %s",hs[i].hoten);

printf("\n gioi tinh : %s",hs[i].gt);

printf("\n khu vuc: %d",hs[i].khuvuc);

printf("\n nhom %d",hs[i].NH);

printf("\n tong diem: %.2f",hs[i].diemtb);

if(hs[i].khuvuc==1)

{

if (hs[i].NH==1){

if(hs[i].diemtb>=18)

{

printf("\nDau");

}

else

{

printf("\nRot");

}

} else if (hs[i].NH==2){

if(hs[i].diemtb>=17.5)

{

printf("\nDau");

}

else

{

printf("\nRot");

}

} else if ( hs[i].NH==3){

if(hs[i].diemtb>=17)

{

printf("\nDau");

}

else

{

printf("\nRot");

}

}

}

if(hs[i].khuvuc==2)

{

if (hs[i].NH==1){

if(hs[i].diemtb>=17)

{

printf("\nDau");

}

else

{

printf("\nRot");

}

} else if (hs[i].NH==2){

if(hs[i].diemtb>=16.5)

{

printf("\nDau");

}

else

{

printf("\nRot");

}

} else if ( hs[i].NH==3){

if(hs[i].diemtb>=16)

{

printf("\nDau");

}

else

{

printf("\nRot");

}

}

}

if(hs[i].khuvuc==3)

{

if (hs[i].NH==1){

if(hs[i].diemtb>=16)

{

printf("\nDau");

}

else

{

printf("\nRot");

}

} else if (hs[i].NH==2){

if(hs[i].diemtb>=15.5)

{

printf("\nDau");

}

else

{

printf("\nRot");

}

} else if ( hs[i].NH==3){

if(hs[i].diemtb>=15)

{

printf("\nDau");

}

else

{

printf("\nRot");

}

}

}

}

}

void NhapHS(struct HOCSINH hs[],int n)

{

int i;

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

{

printf("\nnhap sinh vien thu %d: ",i+1);

printf("\nnhap ho ten: ");

fflush(stdin);

gets(hs[i].hoten);

printf("\nnhap gioi tinh : ");

fflush(stdin);

gets(hs[i].gt);

printf("\nnhap khu vuc: ");

fflush(stdin);

scanf("%d",&hs[i].khuvuc);

printf("\nnhap nhom : ");

fflush(stdin);

scanf("%d",&hs[i].NH);

printf("\nnhap diem trung binh: ");

fflush(stdin);

scanf("%f",&hs[i].diemtb);

}

}

int main()

{

struct HOCSINH hs[50];

int n;

printf("\nnhap so luong sinh vien: ");

scanf("%d",&n);

NhapHS(hs,n);

XuatHS(hs,n);

}