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#include<stdio.h>
#include<conio.h>
#include<string.h>
typedef struct HH
{
    char MaMH[10];
    char TenMH[50];
    int SLMH;
    float DGMH;
};
void NhapDSHH(HH a[],int &n);
void XuatDSHH(HH a[],int n);
void TimHang(HH a[],int n,char MaCanTim[]);
void XuatHHLonHon10(HH a[],int n);
void Dem(HH a[],int n);
void TB(HH a[],int n);
void GiaMax(HH a[],int n);
void SoLuongMin(HH a[],int n);
void GiaMax(HH a[],int n);
void SoLuongMin(HH a[],int n);
void main()
{
    HH a[50];
    int n;

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    char MaCanTim[10];
    NhapDSHH(a,n);
    XuatDSHH(a,n);
    GiaMax(a,n);
    SoLuongMin(a,n);
    getch();
}

// Cac Ham Con Xu Ly Du Lieu Ban Hang
void NhapDSHH(HH a[],int &n)
{
    printf("\nNhap so hang hoa:");
    scanf("%d",&n);
    for(int i=0;i<n;i++)
    {
        printf("\nNhap hang hoa thu %d:",i+1);
        fflush(stdin);
        printf("\nNhap MAMH:");
        gets(a[i].MaMH);
        printf("\nNhap TenMH:");
        gets(a[i].TenMH);
        printf("\nNhap SLMH:");
        scanf("%d",&a[i].SLMH);
        printf("\nNhap DGMH:");
        scanf("%f",&a[i].DGMH);
    }
}

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    }
}

void XuatDSHH(HH a[],int n)
{
    printf("STT\tMH\tTenHang\t\tSoLuong\t\tDonGia\t\tThanhTien\n");
    for(int i=0;i<n;i++)

        printf("%d\t%s\t%s\t\t%d\t\t%.1f\t\t%.1f\n",i+1
,a[i].MaMH,a[i].TenMH,a[i].SLMH,a[i].DGMH,a[i].DGMH
*a[i].SLMH);
}

void TimHang(HH a[],int n,char MaCanTim[])
{
    fflush(stdin);
    printf("\nNhap vao MAMH Can tim:");
    gets(MaCanTim);
    int j=1;
    printf("STT\tMH\tTenHang\t\tSoLuong\t\tDonGia\t\tThanhTien\n");
    for(int i=0;i<n;i++)
        if(strcmp(a[i].MaMH,MaCanTim)==0)

            printf("%d\t%s\t%s\t\t%d\t\t%.1f\t\t%.1f\n",j++
,a[i].MaMH,a[i].TenMH,a[i].SLMH,a[i].DGMH,a[i].DGMH
*a[i].SLMH);
}

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void XuatHHLonHon10(HH a[],int n)
{
    int j=1;
    printf("STT\tMH\tTenHang\t\tSoLuong\t\tDonGia\t\tThanhTien\n");
    for(int i=0;i<n;i++)
        if(a[i].SLMH>10)

        printf("%d\t%s\t%s\t\t%d\t\t%.1f\t\t%.1f\n",j++,
,a[i].MaMH,a[i].TenMH,a[i].SLMH,a[i].DGMH,a[i].DGMH
*a[i].SLMH);
}
void Dem(HH a[],int n)
{
    printf("\n");
    int dem=0;
    for(int i=0;i<n;i++)
        if(a[i].SLMH>=10)
            dem++;
    printf("\n Co %d HH co so luong >10",dem);
}
void TB(HH a[],int n)
{
    printf("\n");
    int tb=0, dem=0;
    for(int i=0;i<n;i++)

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        if(a[i].DGMH>1000)
        {
            dem++;
            tb+=a[i].DGMH;
        }

        printf("\n TB Don Gia SP co so luong
>10",tb/dem);
    }
void GiaMax(HH a[],int n)
{
    printf("\n");
    int Max=a[0].DGMH;
    for(int i=0;i<n-1;i++)
        if(a[i].DGMH>Max)
            Max=a[i].DGMH;

    printf("STT\tMH\tTenHang\t\tSoLuong\t\tDonGia\t\t
\tThanhTien\n");

    int j=1;
    for(int i=0;i<n;i++)
        if(a[i].DGMH==Max)

        printf("%d\t%s\t%s\t\t%d\t\t%.1f\t\t%.1f\n",j++,
,a[i].MaMH,a[i].TenMH,a[i].SLMH,a[i].DGMH,a[i].DGMH
*a[i].SLMH);
    }
void SoLuongMin(HH a[],int n)

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{
    printf("\n");
    int Min=a[0].SLMH;
    for(int i=0;i<n;i++)
        if(a[i].SLMH<Min)
            Min=a[i].SLMH;
    printf("STT\tMH\tTenHang\t\tSoLuong\t\tDonGia\t\tThanhTien\n");
    int j=1;
    for(int i=0;i<n;i++)
        if(a[i].SLMH==Min)

        printf("%d\t%s\t%s\t\t%d\t\t%.1f\t\t%.1f\n",j++,
,a[i].MaMH,a[i].TenMH,a[i].SLMH,a[i].DGMH,a[i].DGMH
*a[i].SLMH);
}

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