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#include<stdio.h>

#include<conio.h>

#include<math.h>

int KTTamGiac(float a, float b, float c);
void TamGiac(float &a, float &b, float &c);
float GiaiThua(float n);
void InSao(float n);
void InHCN_Sao(float m, float n);
int KTNguyenTo(int n);
void DemSoChuSo(int n);
void TongChuSo(int n);
void DaoSo(int n);
int USCLN(int a, int b);
void main()
{
    int a, b;

    printf("\n Nhap a = ");scanf("%d",&a);
    printf("\n Nhap b = ");scanf("%d",&b);
    printf("\n USCLN (%d,%d) = %d",a,b,USCLN(a,b));
}

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    getch();
}

// Chuong 4/ trang 100, 101, 102 sgk
// Bai 01: tinh dien tich va chu vi tam giac
int KTTamGiac(float a, float b, float c)
{
    if(a+b>c&&a+c>b&&b+c>a)
        return 1;
    else
        return 0;
}

void TamGiac(float &a, float &b, float &c)
{
    printf("\n Nhap a = ");scanf("%f",&a);
    printf("\n Nhap b = ");scanf("%f",&b);
    printf("\n Nhap c = ");scanf("%f",&c);
    if(KTTamGiac(a,b,c)==1)
    {
        float p = (a+b+c)/2;

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        printf("\n Chu Vi Tam Giac = %.2f",a+b+c);

        printf("\n Dien Tich Tam Giac

        =%.2f",sqrt(p*(p-a)*(p-b)*(p-c)));

    }

Else printf("\n a b c khong tao thanh tam giac");

}

// Bai 03: n!

float GiaiThua(float n)

{

    if(n==1)    return 1;

    else    return GiaiThua(n-1)*n;

}

// Bai 04: In n dau *

void InSao(float n)

{

    printf("\n Chuong Trinh In %.0f dau * la: ");

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

        printf("*");

}

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void InHCN_Sao(float m, float n)
{
    printf("\n Chuong Trinh In Hinh Chu Nhat Dac
Ruot * la: ");
    for(int i=0;i<m;i++)
    {
        printf("\n");
        for(int j=0;j<n;j++)
            printf("*");
    }
    printf("\n Chuong Trinh In Hinh Chu Nhat Rong
Ruot * la: ");
    for(int i=0;i<m;i++)
    {
        printf("\n");
        if(i==0||i==m-1)
            for(int j=0;j<n;j++)
                printf("*");

        else

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        {
            for(int j=0;j<n;j++)
                if(j==0||j==n-1)
                    printf("*");
                else
                    printf(" ");
        }
    }

// Bai 05: Kiem Tra So Nguyen To
int KTNguyenTo(int n)
{
    int kt=1;
    for(int i=2;i<n;i++)
        if(n%i==0)
        {
            kt=0;
            break;
        }
}

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        return kt;
    }

// Bai 06: In So Chu So
// 2008 -> 4 chu so
// 2008 - tong 10
void DemSoChuSo(int n)
{
    int dem=0;
    while(n>0)
    {
        dem++;
        n=n/10;
    }

    printf("\n So Chu So cua n la = %d",dem);
}

void TongChuSo(int n)
{
    int tong=0;
    while(n>0)

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    {
        tong=tong+n%10;
        n=n/10;
    }

    printf("\n Tong Chu So cua n la = %d",tong);
}

void DaoSo(int n)
{
    int m=0;
    while(n>0)
    {
        m=m*10+n%10;
        n=n/10;
    }

    printf("\n Dao So cua n la = %d",m);
}

// Bai 07: UCSLN(a,b)
int USCLN(int a, int b)
{

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if(a==0||b==0)
    return a+b;
else
    if(a>=b)
        return USCLN(a-b,b);
    else
        return USCLN(a,b-a);
}
```