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//bài mǎng hai chiều phần cơ bản
#include<iostream.h>
#include<stdlib.h>
#define n 50
void NhapMang( int a[][n], int r, int c);
void XuatMang( int a[][n], int r, int c);
long TongMang(int a[][n], int r, int c);
void XuatMangChia2(int a[][n], int r, int c);
long TongHang(int a[][n], int r, int c,int htong);
int search2 (int a[ ][n ], int h, int cot, int x, int &r, int &c);
void main()
{
    int A[n][n];
    int r,c;
    long t;
    int hTong,k, htim, ctim;
    cout<<"Nhap so dong ";
    cin>>r;
    cout<<"Nhap so cot ";
    cin>>c;
    NhapMang(A,r,c);
    cout<<" Mang vua nhap\n";
    XuatMang(A,r,c);
    cout<<"\n hung phan tu co gtri chia het cho 2\n";
    XuatMangChia2(A,r,c);
    cout<<"\n Nhap hang can tinh tong";
    cin>>hTong;
    t=TongHang(A,r,c,hTong);
    cout<<"\nTong mang la: "<<t;

    cout<<"\nnhap gia tri can tim";
    cin>>k;
    htim=-1;
    ctim=-1;
    if(search2 (A, r, c, k, htim, ctim)!=-1)
        cout<<" tim thay tai hang"<< htim <<" Tai co "<<ctim;

    else
        cout<<"Khong tim thay";

}
long TongMang(int a[][n], int r, int c)
{
    long sum=0;
    for(int i=0; i<r;i++)

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        for(int j =0; j<c; j++)
            sum=sum+a[i][j];
    return sum;

}
void NhapMang(int a[][n], int r, int c)
{
    for(int i=0; i<r; i++)
        for(int j=0; j<c; j++)
            a[i][j]=rand()%26+10;
}
void XuatMang(int a[][n], int r, int c)
{
    for(int i=0; i<r; i++)
    {
        for (int j=0; j<c; j++)
            cout<<a[i][j]<<" ";
        cout<<"\n";
    }
}
void XuatMangChia2(int a[][n], int r, int c)
{
    int dem=0;
    for(int i=0; i<r; i++)
        for(int j=0; j<c; j++)

            if (a[i][j]%2==0)
            {
                cout<<a[i][j]<<"\t";
                dem++;
                if (dem%3==0)
                    cout<<"\n";
            }
}
long TongHang(int a[][n], int r, int c,int htong)
{
    long t=0;
    for(int i=0; i<r; i++)
        t=t+a[htong][i];
    return t;
}
int search2 (int a [][n ], int h, int cot, int x, int &r, int &c)

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{
    int i=0, j=0;

    r = -1;
    c = -1;
    for (i=0; i<h; i++)
        for (j=0; j<cot; j++)
            if (a[i][j] == x )
                {
                    c= j;
                    r = i;
                    return (1);
                }
    return (-1);
}
```