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/*****
/*HW03_Onur_Sezer_121044074
/*
/*Written by Onur Sezer on October 8, 2014
/*
/*Description:
/*
/*Program kullanicidan alinan sutun ve satir sayisi ile pencere cizer,
/*ve alinan integer degeri tam ortasina basar.
/*Inputs:
/*int row_count,column_count,n
/*
/*Outputs:
/*Konsola pencere cizer
*****/

/*-----*/
/*
/*
/*Includes
/*-----*/
#include<stdio.h>
/*-----*/
/*
/*Function Prototypes
/*-----*/
/*****
/*Fonksiyon alinan degerler ile pencere cizer
/*input: int row_count,column_count,n
/*output:Konsola pencere cizer
*****/
void print_window(int row_count,int column_count,int n);
/*****
/*Fonksiyon integer bir degerin basamak sayisini bulur
/*input: int n
/*output:Sonucu return yapar
*****/
int basamak(int n);

int main() {
    /*START_OF_MAIN*/
    int row_count,column_count,n;
    /*END_OF_VARIABLES*/

    do
    {
        printf("Enter row_count, column_count and n\n");
        scanf("%d%d%d",&row_count,&column_count,&n);
    }
    while( !((row_count>=10 && row_count<=40) && (column_count>=10 && column_count<=40)) );

    print_window(row_count,column_count, n);

    /*END_OF_MAIN*/
    return 0;
}

void print_window(int row_count,int column_count,int n)
{
    int i,j;
    int num;
    double r1,r2; /*Satirin ortasinin bulunmasinda kullanildi*/
    double c1,c2; /*n sayisini sutunda ortalama isleminde kullanildi*/

    r1=row_count/2;
    r2=row_count/2.0;

    if(r2>r1){
        r1=row_count/2;
        r2=row_count/2;
    }
    else{
        r1=row_count/2-1;
        r2=row_count/2;
    }
}

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num=basamak(n);
c1=(column_count-num)/2;
c2=(column_count-num)/2.0;

if(c2>c1){
    c1=(column_count-num)/2;
    c2=(column_count-num)/2+1;
}
else{
    c1=(column_count-num)/2;
    c2=(column_count-num)/2;
}

for(i=0;i<column_count;++i)
    printf("*");
printf("\n");

for(i=1;i<r1;++i){
    printf("*");
    for(j=2;j<column_count;++j)
        printf(" ");
    printf("*\n");
}

printf("*");
for(j=1;j<c1;++j)
    printf(" ");
printf("%d",n);
for(j=1;j<c2;++j)
    printf(" ");
printf("*\n");

for(i=1;i<r2;++i){
    printf("*");
    for(j=2;j<column_count;++j)
        printf(" ");
    printf("*\n");
}

for(i=0;i<column_count;++i)
    printf("*");
printf("\n");
}
int basamak(int n)
{
    int count=0;

    while(n){
        n/=10;
        count++;
    }

    return count;
}
/*#####*/
/*      End of HW03_Onur_Sezer_121044074      */
/*#####*/
```