50A – Domino Pilling

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14 April 2024

1 Problem

Problem Description : https://codeforces.com/problemset/problem/50/A

2 Objective

To find out how many dominoes with a size of 2 x 1 can be used to cover a box measuring m x n, where the domino part must not cross the edge of the box
Example :

m & n are 2 & 4
then the maximum number of dominoes needed is 4 to cover the surface of the box even though there is 1 x 1 more box that is not covered

3 Solution

By allowing dominoes to be rotated vertically and horizontally, the placement of dominoes with a size of 2 x 1 will not be limited by mismatched positions. So, we can calculate it by dividing the area of the domino by rounding down.

4 Code

```
#include <bits/stdc++.h>
#include <iostream>
#include <vector>
#include <algorithm>
#include <cmath>
using namespace std;

int main() {
    int n,k;
    cin>>n>>k;
    cout<<(n*k)/2;
   return 0;
}
```