

# Paper Cut into Minimum Number of Squares

将AxB的纸张进行切分，使得切分后得到的正方形数量最少

## 方法1

```
#include <bits/stdc++.h>

using namespace std;

int cutPaper(int &A, int& B) {
    if (A > B) swap(A, B);
    int count = 0;
    while (A <= B && B && A) {
        B -= A;
        count++;
        if (A >= B) swap(A, B);
    }
    return count;
}

int main() {
    int A = 13, B = 29;
    printf("%d\n", cutPaper(A, B));
    return 0;
}
```

## 方法2

```
#include<bits/stdc++.h>
using namespace std;

int cutPaper(int a, int b)
{
    long long result = 0, rem = 0;

    if (a < b)
        swap(a, b);

    while (b > 0)
    {
        result += a/b;

        rem = a % b;
        a = b;
    }
}
```

```
        b = rem;
    }
    return result;
}

int main()
{
    int n = 13, m = 29;
    printf("%d\n", cutPaper(n, m));
    return 0;
}
```