

```
public static int binomialCoefficient(int n, int k) {  
    int res = 1;
```

```
    if (k > n - k)
```

```
        k = n - k;
```

```
    for (int i = 0; i < k; ++i) {
```

```
        res *= (n - i);
```

```
        res /= (i + 1);
```

```
    }
```

```
    return res;
```

```
}
```