



```
public static int binomialCoefficient(int n, int k) {  
    if (k == 0 || k == n) return 1;  
    if (k > n - k) k = n - k;  
    for (int i = 1; i <= k; ++i) {  
        res *= n - i + 1;  
        res /= i;  
    }  
    return res;  
}
```