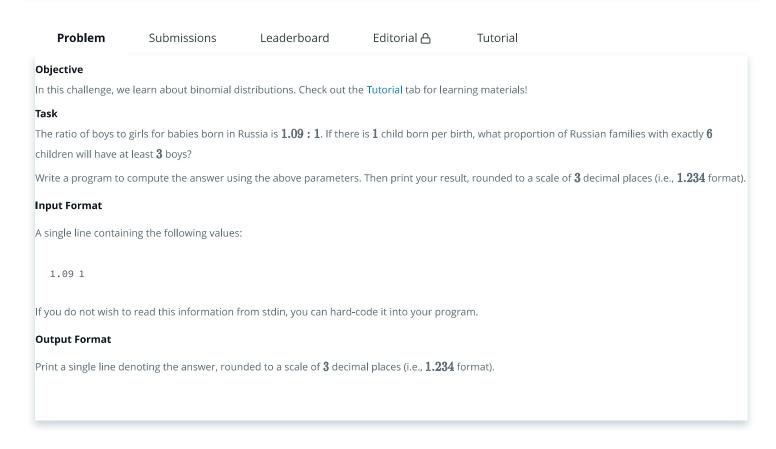




## Day 4: Binomial Distribution I ☆

3 more challenges to get your next star!
Points: 12/15



```
Python 3
     # Enter your code here. Read input from STDIN. Print output to STDOUT
1
2
3
     def fact(n):
4
         return 1 if n == 0 else n*fact(n-1)
5
6
     def comb(n, x):
7
         return fact(n) / (fact(x) * fact(n-x))
8
9
     def b(x, n, p):
         return comb(n, x) * p**x * (1-p)**(n-x)
10
11
     rate_b, rate_g = list(map(float, input().split(" ")))
12
13
14
     odds = rate b / rate g
     print(round(sum([b(i, 6, odds / (1 + odds)) for i in range(3, 7)]), 3))
15
                                                                                                        Line: 14 Col: 22
```