

Day 4: Binomial Distribution I

Objective

In this challenge, we learn about binomial distributions. Check out the [Tutorial](#) tab for learning materials!

Task

The ratio of boys to girls for babies born in Russia is **1.09 : 1**. If there is **1** child born per birth, what proportion of Russian families with exactly **6** children will have at least **3** boys?

Write a program to compute the answer using the above parameters. Then print your result, rounded to a scale of **3** decimal places (i.e., **1.234** format).

Input Format

A single line containing the following values:

```
1.09 1
```

If you do not wish to read this information from stdin, you can hard-code it into your program.

Output Format

Print a single line denoting the answer, rounded to a scale of **3** decimal places (i.e., **1.234** format).