

# Day 5: Poisson Distribution I



## Objective

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

## Task

A random variable,  $X$ , follows Poisson distribution with mean of **2.5**. Find the probability with which the random variable  $X$  is equal to **5**.

## Input Format

The first line contains  $X$ 's mean. The second line contains the value we want the probability for:

```
2.5
5
```

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).