## Day 8: Least Square Regression Line

## Objective

In this challenge, we practice using linear regression techniques. Check out the Tutorial tab for learning materials!

## Task

A group of five students enrolls in Statistics immediately after taking a Math aptitude test. Each student's Math aptitude test score, $x$, and Statistics course grade, $y$, can be expressed as the following list of $(x, y)$ points:

1. $(95,85)$
2. $(85,95)$
3. $(80,70)$
4. $(70,65)$
5. $(60,70)$

If a student scored an 80 on the Math aptitude test, what grade would we expect them to achieve in Statistics? Determine the equation of the best-fit line using the least squares method, then compute and print the value of $y$ when $x=80$.

## Input Format

There are five lines of input; each line contains two space-separated integers describing a student's respective $x$ and $y$ grades:

```
9585
8595
8070
70 65
6070
```

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).

