# Problem 1. HTML Grade

*As a young student, Peter is trying to figure out his grade before the exam.*

The course **grade** is calculated, following those rules:

The maxPoints for the course are always 100. The maximum **examPoints** are 400. The examPoints form 90% of the student`s totalPoints for the course.

The student can receive a **bonus** for homework, up to **10%** if all of the homework is successfully completed trough the course.

If the student has max points at the exam, he receives 6, no matter the homework bonuses.

After calculating the totalPoints for the course, you should evaluate the following formula, which returns the **grade** for the course.:

grade = 3 + 2 \* (totalPoints – maxPoints / 5) / (maxPoints / 2)

Note that grade **less than 3** is rounded to 2 and you **can`t** have grade greater than 6.

## Input / Constraints

You will receive three parameters of type **Number**: exam points, homework completed, total homework.

## Output

Return Peters grade for the course.

## Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 300, 10, 10 | 5.30 | Peter has 300 points on the exam, which is 67.5 points from the totalPoints for the course. He also has done all of his homework, so he recieves 10 points bonus. His final totalPoints are 77.5. After evaluating the formula, we receive:  **3 + 2 \*(77.5 – maxPoints / 5) / (maxPoints / 2) = 5.30** |
| **Input** | **Output** |  |
| 200, 5, 5 | 4.40 |  |

*…psychological thriller film written by Simon Garrity and Stuart Hazeldine...*