

# Introduction to Computers and Programming

## Homework 1

2022/09/13

## 1 Deadline

There is a week for you to do the homework. You must upload your homework via E3 before 2022/09/19 23:55. Note that there is no late submission for homework. Therefore, please finish your homework as soon as possible. In addition, make sure that your code can execute at Visual Studio Community 2019.

## 2 Problems

### 2.1 TDEE

BMR(Basal Metabolic Rate) is the least calories required for the body to consume in a day. TDEE(Total Daily Energy Expenditure) is the calories that you consume in a day. In short, TDEE can be formulated by BMR and the activity volume. Therefore, we can use BMR to calculate TDEE. Here is the formulation for a male who doesn't have any activity to calculate TDEE:

$$BMR = (13.7 * Weight(kg)) + (5.0 * Height(cm)) - (6.8 * Age) + 66 \quad (1)$$

$$TDEE = 1.2 * BMR \quad (2)$$

Use equation (2) to calculate the TDEE of a male who doesn't have any activity.

#### Input

The line contains two floating points and one integer  $W(1 \leq W \leq 100)$ ,  $H(150 \leq H \leq 200)$ , and  $A(1 \leq A \leq 100)$ —the Weight, the Height, and the Age of the male.

#### Output

Output a floating point of TDEE of the male. Note that you need to make floating point to the second decimal place.

#### Example

##### Input

72.5 182.8 22

##### Output

2188.38