# A test of "programming for beginners" – 24 April 2016

## Task 1. Repair of tiles

**The the site** in front of block should be **placed tiles**. **Site** **it is** in the shape of **a square** **with side N m**. **The tiles** are **wide "W" feet** and **long "L" FT**. On the site there is **a** **bench with width M m** and **O m length**. Below it **you do not need** to put the tiles. **Each tile** is placed to **0.2 minutes**.

Write a **program** that **reads from the console** **the size** of **a site**, **the tiles** and **the bench** and calculate **how many tiles are needed** to cover the site and compile **time for placing all tiles**.

**Example: playground** with **size** **20 m** there is **an area 400 sq .m**. **Bench** wide **1 m** long and **2 m**, occupying the **area m 2kv**. A **Tile** is **a wide** **5 m** and **4 m long** has **area = 20kv.** **The area** to be covered is **400 – 2 = 398 sq.m.** Necessary are **398/20 = 19.90 tiles**. The required **time** is **19.90 \* 0.2 = 3.98 minutes**.

### Login

From the console are read **5 numbers**:

        **N**– **the length** of the **side** of **the site** in the range **[1...100]**

        **W**- **the width** of a **Tile**in the range **[0.1...10.00]**

        **L**– **the length**of a **Tile**in the interval **[0.1 ... 10:00]**

        **(M)**- **the width**of **the bench**in the range **[0 ... 10]**

        **Oh**– **the length**of **the bench**in the range **[0 ... 10]**

### Exit

To print to the console two numbers: **the number of tiles** necessary for repair and **time to place**, each on a new line. **To format the result to the second character after the decimal separator.**

### Sample input and output

|  |  |  |
| --- | --- | --- |
| **Login** | **Exit** | **Explanations** |
| 20  5  4  1  2 | 19.9 0  3.98 | **Total area**= 20 \* 20 = **400**; area of **bench** = 1 \* 2 = **2**  **Area cover** = 400 – 2 = **398**  **Area of tiles**= 5 \* 4 = **20**  **The necessary tiles**= 398 / 20 = **19.9**  **Necessary time**= 19.9 \* 0.2 = **3.98** |
| 40  0.8  0.6  3  5 | 3302.08  660.4 2 | |