# A test of "fundamentals of programming" 18 March 201 7

## Task 2 Working hours.

Write a program , to calculate whether the **company can carry out** repairs on the way to **the designated by the principal time** (the **working man-hours**). **The number of workers** in the company and **the days** that can be detached for the order, **be read by the console**. It is considered, that **an employee works 8 hours a day**. As a result, the program must make **If workers have managed to finish within the allotted time** and **how many hours they stay** or **if they don't get the times** – **How long it reaches them.**In case you**don't succeed, apply neustoki**. Calculate as **the number of additional hours** are **multiplied by the number of days that have worked so far**.

### Login

From the console read **3 rows**:

        First line – **the necessary hours** – **an integer** in the range [1...10000]

        Second row- **the number of workers** – **an integer** in the range [1...1000]

        Third line – **working days** – **an integer** in the range [1...1000]

### Exit

The console is printed:

        If **the time is gone**:

o **"{the remaining hours} hours left"**

        If **time is not reached**:

o **"{how many more hours you must work} overtime"**

o **"Penalties: {default}"**

### Sample input and output

|  |  |  |
| --- | --- | --- |
| **Login** | **Exit** | **Explanations** |
| 1000  10  20 | 60 0 hours left | For the repair are **required 1000 hours**  **10 worker work 20 days 8 hours  1600 hours**  **1600 > 1000  remain 600 hours** |
| **Login** | **Exit** | **Explanations** |
| 2000  10  20 | 400 overtime  Penalties: 8000 | For repairs are **needed 2000 hours**  **10 worker work 20 days 8 hours  1600 hours**  **1600 < 2000** must **work more 400 hours**  **The penalties are** 400 hours \* 20 days = **8000** |