# A test of "programming for beginners" – March 2016

## Task 1. study hall

**Study hall**there is a rectangular size **w**the **h**meters without columns inside. The Hall is divided into two parts – left and right, with corridor approximately halfway in the left and the right side has a **forefront with desks**in the back of the Hall there is a large **entrance door**. In front of the Hall there is a **Department** with a podium for the trainer. A **Workstation** takes up **70 of 120 cm**(table with size of 70 40 cm + room for Chair and passing a size 70 to 80 cm). **The corridor**it is wide at least **100** **cm**. It is estimated that for **the front door** (that is, with an aperture of 160 cm) is lost just **1 workstation**for **the Department** (which has a size of 160 120 cm) just lost **2 jobs**. Write a program that introduces dimensions of the school hall and calculates **the number of jobs in it** at the scheduled location (see figure).

### Login

From the console read 2**numbers** , one per line: **w**(length in metres) and **h**(width in metres).

Restrictions: **3**≤ **h**≤ **w**≤ **100**.

### Exit

To print to the console an integer: **number of seats** in the school Hall.

### Sample input and output

|  |  |  |  |
| --- | --- | --- | --- |
| **Login** | **Exit** | **Drawing** | **Explanations** |
| 15  8.9 | 129 |  | The Hall is wide 89 0 cm. Of these 100 cm go to the hallway in the middle in other 790 cm can be deployed in **11 offices** **on line** (11 \* 70 cm = 770 cm + 20 cm residue).  The Hall is long 1500 cm. They can be situated **12 rows** (12 \* 120 cm = 1440 + 60 cm residue).  **Number of places**= **12 \* 11-3** = 3 = 132- **129** (we have 12 rows at 11 sites = 132 minus 3 seats for the Department and the entrance door). |
| 8.4  5.2 | 39 |  | The Hall is wide 52 0 cm. Of these 100 cm go to the Hall in the middle of the other. 42 0 cm can be deployed in **6 desks on line** (6 \* 70 cm = 420 cm, with no residue).  The Hall is long 840 cm. They can be located **7 lines** (7 \* 120 cm = 840, without residue).  **Number of places**= **7 \* 6-3** = 3 = 42- **39** (we have 6 seats line 7 = 42 minus 3 seats for the Department and the entrance door). |