# A test of "fundamentals of programming"-03 September

## Task 1. Sewing workshop

Tailoring workshop accepts **orders for sewing of tablecloths and boxes for tables** for dining. The tablecloths are rectangular, square carriage, their number is always the same. The tablecloth should hang with **30 cm from each edge of the table**. The side of the carriage is **half the length of the masses**. In each order shall include information on the number and size of the masses.

**Write a program that calculates the cost of order in dollars and in dollars,**like square meters fabric for rectangular tablecloth costs**$7**, for Plaid –**$9.** The rate of the dollar is**1.85 leva.**

### Login

The user enters **3 numbers** , one per line:

**1.** **Number of rectangle tables – an integer in the range [0 .. 500 ];**

**2.** **Length of the rectangular table in metres – a real number in the interval [0.00 3.00. ];**

**3.** **Width of the rectangular table in meters**– **a real number in the interval [0.00 ... 3 .00 ];**

### Exit

To be printed on the console **two numbers**: **the price of the products in dollars and in dollars.**

o **"{price in dollars} USD"**

o **"{price in BGN} BGN"**

**The results are rounded to two decimal places.**

### Sample input and output

|  |  |  |
| --- | --- | --- |
| **Login** | **Exit** | **Explanations** |
| 5  1.0 0  0.5 0 | 72.85 USD  134.77 BGN | The total area of the tablecloths is:  5 \* 1.0 (0 + 2) 0.30 (0.30 \* 0.5 + 2) = 8.80 sq. metres  The total area of the carriage is:  5 \* 1.0 (0 /2) \* 1.0 (0 /2) = 1.25 sq. metres  Price in USD: 8.8 0 \* $7 + 1.25 \* $9 = $72.85  Price in BGN: 72.85 \* = 1.85 134.77 BGN |
| 10  1.20  0.65 | 189.90 USD  351.32 BGN | The total area of the tablecloths is:  10 pieces (1.2 + 2 \* 0.30) (0.65 + 2 \* 0.30) = 22.50 sq. metres  The total area of the carriage is:  10 pieces (1.20/2) \* (1.20/2) = 3.60 sq. metres  Price in USD: $22.50 \* 7 + 3.60 \* $9 = $189.9  Price in BGN: \* = 1.85 189.9 351.32 BGN |