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

## Task 6 Banknotes and coins.

We have banknotes and coins in the **BGN 1** **2lv.** and **5lv will apply.** To write a program that reads a user-entered number of banknotes and coins and the **amount**, and the screen displays all the possible ways in which the amount may be paid the Bills.

### Login

The input read from **the console** and contains **just 4 rows**:

**1.** **Number of**coins in **BGN 1** - **positive whole number;**

**2.** **Number of**coins **2lv.** - **positive whole number;**

**3.** **Number of**notes on **5lv will apply.** - **positive whole number;**

**4.** **Amount**- **positive integer**in the range [**1... 1000**];

### Exit

To be printed on the console**all combinations of the values which form the amount**, formatted in the following way:

o **"{PCs. BGN 1} 1 {lv + PCs. 2lv.} 2 {lv + PCs. 5lv will apply.} \* 5. lv = {amount} lv. "**

### Sample input and output

|  |  |
| --- | --- |
| **Login** | **Exit** |
| 3  2  3  10 | 0 \* 1 lv. + 0 \* 2 lv. + 2 \* 5 lv. = 10 lv.  1 \* 1 lv. + 2 \* 2 lv. + 1 \* 5 lv. = 10 lv.  3 \* 1 lv. + 1 \* 2 lv. + 1 \* 5 lv. = 10 lv. |
| **Login** | **Exit** |
| 5  3  1  7 | 0 \* 1 lv. + 1 \* 2 lv. + 1 \* 5 lv. = 7 lv.  1 \* 1 lv. + 3 \* 2 lv. + 0 \* 5 lv. = 7 lv.  2 \* 1 lv. + 0 \* 2 lv. + 1 \* 5 lv. = 7 lv.  3 \* 1 lv. + 2 \* 2 lv. + 0 \* 5 lv. = 7 lv.  5 \* 1 lv. + 1 \* 2 lv. + 0 \* 5 lv. = 7 lv. |