# A test of "fundamentals of programming" – 18 December 2016

## Task 3. Shop for flowers

Flower shop offers **3 types of flowers**: **chrysanthemums**, **roses** and **tulips**. **Prices depend on season**.

|  |  |  |  |
| --- | --- | --- | --- |
| **Season** | **Chrysanthemums** | **Roses** | **Tulips** |
| **Spring/Summer** | **2.00**EUR/PCs | **4.10**EUR/PCs | **2.50**EUR/PCs |
| **Fall/Winter** | **3.75**EUR/PCs | **4.50**EUR/PCs | **4.15**EUR/PCs |

On holidays the prices of all flowers are **increased by 15%** **.**We offer the following **discounts**:

        For purchased **more** **than 7 tulips** **in** **IP** **o letta**– **5%****of the whole bouquet**.

        For purchased **10 or more** roses **in** **winter**– **10% of the whole bouquet**.

        For purchased **more than 20** flower**total** **in all seasons**– **20% of the whole bunch**.

**Discounts shall be made by written order, and so can be superimposed. All discounts apply after the appreciation for the holiday!**

The price for arranging the bouquet **always** is **2lv.** Write a program that calculates **the price of a bouquet.**

### Login

The input read from **the console** and contains **exactly 5 lines**:

        The **first** line is**the number of purchased chrysanthemums** – **an integer in the range [0 ... 200]**

        The **second** row is **the number of purchased roses** – **an integer in the range [0 ... 200]**

        The **third** row is **the number of purchased tulips** - **an integer in the range [0 ... 200]**

        The **fourth** line is referred to **the season** – **[Spring, Summer, Autumn, Winter ]**

        The **fifth** row has indicated **whether the day is a celebration** – **[Y -/ N -No]**

### Exit

To **print** to the console **1 number — the cost of flowers**, **formatted to the second character after the decimal comma**.

### Sample input and output

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Login** | **Exit** | **Explanations** | | |
| 2  4  8  Spring  Y | 46.14 | **Price: 2 \* 4 \* + 2.00 4.10 + 8 \* = 2.50 40.40 EUR**  **Festive day**40.40 **+** **15%**= $46.46.  **5% discount for more than 7 tulips in spring-**44.14.  The flowers are Generally 20 or less- **no discount**  **+ 44.14 2 for arranging = 46.14 EUR**. | | |
| **Login** | **Exit** | **Explanations** | **Login** | **Exit** |
| 3  10  9  Winter  N | 69.39 | **Price:**3\*3.75 + 10\*4.50 + 9\*4.15**= 93.60** **EUR**  **Is not**holiday– **no increase**  **10 %**discount for**10 or more roses**in**winter –** **84 . 2 4**.  The flowers are Generally more than 20 – 20% discount = **67.392**  **67.392 + 2**for arranging**= 6 9 .392 EUR**. | 10  10  10  Autumn  N | 101.20 |