# A test of "fundamentals of programming" – 20 November 2016

## Task 3 Vacation.

Tourist company has organized a holiday of sea for **the elderly** and **students**. **The package** **included transport** them – **round trip** and the **number of nights** **in a hotel. The Group** had to **choose a transport** - **train**, **bus, ship** or **aircraft**, as **the prices** of **the tickets** to the individual age groups **for one direction** **depended on the type of transport**:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **train** | **bus** | **ship** | **plane** |
| **Adults** | 24.99 | 32.50 | 42.99 | 70.00 |
| **Students** | 14.99 | 28.50 | 39.99 | 50.00 |

If the group is **50 or more persons** receive a **50% discount on train tickets**.

A **night for the entire group** **costs** **BGN 82.99**. Tourism company takes **a Commission for organizing the trip** – **10% of the total amount**.

### Login

From the console read **3 numbers**and**one string**, each on a separate line:

        **The first row**–**the number of elderly people**. **An integer in the range** **[1... 100]**

        **The second row**– **the number of students**. **An integer in the range [1 ... 100]**

        **Third row**- **number of nights** **. An integer in the range [1 ... 60]**

        **The fourth order** **–** **mode of transport – "** **train** **", " bus** **", " boat** **"**or**"** **airplane** **"**

### Exit

To **print** to the console **a number – the whole amount**, **formatted with an accuracy of 2 characters after the decimal comma**.

### Sample input and output

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Login** | **Exit** | **Explanations** | | | | | |
| 10  5  7  airplane | 2729.02 | Aircraft-> Adults = **70.00;** Students**= 50.00**  Transport cost = 10 + 5 50.00 70.00 \* = **950 \* 2 = 1900**  Hotel = 7 \* = 82.99 **580.93**;  Commission = (1900 + 580.93) \*0.10**= 248.093**  Whole amount = 1900 + 580.93 + 248.093 = **2729.02** | | | | | |
| **Login** | **Exit** | **Login** | **Exit** | **Login** | **Exit** | **Login** | **Exit** |
| 10  5  7  train | 1353.69 | 10  5 0  7  train | 1738.36 | 10  10  1  boat | 1916.85 | 3  40  15  bus | 4091.84 |