# A test of "programming for beginners"- 23 July 2017

## Task 4. Energy consumption

After the finals all the dancers returned to regular workouts at the gym. **All exercise a certain number of days at certain times.** **To calculate how much energy on average has remained neizhabena for all training days**given that:

|  |  |
| --- | --- |
|  | **Rates per person energy wane** |
| **Even a workout and even hours** | **68%** |
| **Odd and even classes** | **49%** |
| **Workout and even odd hours** | **65%** |
| **Odd and odd hours** | **30%** |

**Each dancer starts with 100% energy.**

# Login

From the console to read **a series of numbers**, each **on a separate line**:

1. **N – number of training days – an integer in the range [0 ... 31].**

**2.** **A – number of dancers – an integer in the range [0 ... 100].**

**For each training day**reading **on a separate line**:

        **The hours that are trained**– **an integer in the range [0 ... 12].**

# Exit

Prints**1 line**in the following format:

**IF**the average energy consumption for the training days is **50%** **or less**

        **" They feel good! Energy: left**{**left power**}**"**.

**IF**the average energy consumption for the training days is **over 50%**

        **" They are wasted! Energy left:**{**left power**}**"**.

**The result should be formatted to the second decimal place**.

|  |  |  |
| --- | --- | --- |
| **Login** | **Exit** | **Explanations** |
| 4  10  5  8  2  3 | They are wasted! Energy left: 47.00 | **Odd day and odd hours**– 10 \* 30 = 300 total committed energy of all.  **Odd/even day and even-numbered hours**– 68 \* 10 = 680  **Odd days and even hours**= 49 \* 10 = 490  **Odd/even day and odd hours**– 65 \* 10 = 650  **Обща енергия** за всички дни на танцьорите =  100 \* 10 \* 4 = 4000  Неизхабена енергия общо за **всички** дни -  4000 – (300 + 680 + 490 + 650) = 1880  Неизхабена енергия на **танцьор** **за ден** –  1880 / 10 / 4 = 47 |
| **Вход** | **Изход** | **Обяснения** |
| 4  10  1  1  1  1 | They feel good! Energy left: 52.50 | **Нечетен ден и нечетни часове – 10\*30 = 300**  **Четен ден и нечетни часове – 65\*10 =650**  **Нечетен ден и нечетни часове – 10\*30 = 300**  **Четен ден и нечетни часове – 65\*10 = 650**  **Обща енергия** за всички дни на танцьорите –  100 \* 10 \* 4 = 4000  Неизхабена енергия общо за **всички** дни -  4000 – (650 + 650 + 300 + 300) = 2100  Неизхабена енергия на **танцьор** **за ден** –  2100 / 10 / 4 = 52.5 |