# A test of "programming for beginners" – 28 August 2016

## Task 4. Hospital

**For a period of time, every day** in the hospital, patients arrive for review. It has **initially** with **7 physicians**. Any doctor can view**only one patient per day**, but sometimes there is a shortage of doctors, so **the other patients are sent to other hospitals**. **Every third day**, the hospital makes calculations and **If the number of unreviewed patients is greater than the number of surveyed**, **appoint another physician**. As **the appointment becomes before admission of patients for the day.**

Write a program that calculates **for a given period the number of unreviewed and surveyed patients**.

### Login

The input read from **the console** and contains:

        The **first line** – **the period**for which the need to do calculations . **An integer**in the range **[1 ... 1000]**

        The next **rows (equal to the number of days)**– **the number of patients**who arrive for review for **the current day.** **An integer** in the range [**0**... **10 000** ]

### Exit

To **print** to the console **2 line**:

        The**first row**: " **Patients Treated: {number of examined patients}.**"

        The**second line**: " **Untreated patients: {number of unreviewed patients}.**"

### Sample input and output

|  |  |  |  |
| --- | --- | --- | --- |
| **Login** | **Exit** | **Explanations** | |
| 4  7  27  9  1 | Treated patients: 23.  Untreated patients: 21. | **1 day:**reviewed and unreviewed 7 0 patient for the day  **2 day:**7 reviewed and unreviewed 20 patient for the day  **3 day:**So far a total of 14 patients were surveyed, and unreviewed – 20 – > Appoint a new doctor –>  8 reviewed and 1 nepregledan patient for the day  **4 day:**1 reviewed and unreviewed 0 patient for the day  **Total**: **23 reviewed** and **unreviewed 21** **patients**. | |
| **Login** | **Exit** | **Login** | **Exit** |
| 6  25  25  25  25  25  2 | Treated patients: 40.  Untreated patients: 87. | 3  7  7  7 | Treated patients: 21.  Untreated patients: 0. |

Testing of the solution: