# A test of "programming for beginners" – 17 July 2016

## Task 4. Back to the past

Dana is **18 years old** and receives heritage that consists of **X amount of money** and **time machine**... he decided **to go back to the year 1800**, but does not know **whether the money** will **be enough** to live without to work. Write **a program that calculates** whether Ahmed **would have enough money,**so I don't have to work**up to a year or less**. As we assume that **for each even-numbered** (1800, 1802, etc) **a year** will **spend 12 000 BGN**. For **every odd** (1801.1803, etc.) will **spend 12 000 + 50 \* [, at least in that year]**.

### Login

Input (en) is read by the console and **contains exactly 2 rows**:

        **The inherited money**– **a real number in the interval** **[1.00 ... 1 000 000.00]**

        **The year to which should live (including)** **– an integer in the range [1801 ... 1900]**

### Exit

To **print** to the console **line 1 amount** must be**formatted** to **two decimal places**:

        If **the money is** **enough**:

o " **Yes! He will live a carefree life and will have {N} dollars left.**"-where **N**the money that will remain.

        If **the money is not enough**:

o " **He will need {M} dollars to survive. "**– where **M is the amount**, which **does not reach**.

### Sample input and output

|  |  |  |
| --- | --- | --- |
| **Login** | **Exit** | **Explanations** |
| 50000  1802 | Yes! He will live a carefree life and will have 13050.00 dollars left. | 1800 → **even**  → **Spend** **12000** euro  → **Remain** 50000 – 12000 = **38000**  1801 → **odd**  → **Spend** 12000 + **19 \* 50** = 12000 + 950 = **12950**          → **Remain**38000 – 12950 = **25050**  1802 → **even**  → **Spend** 12000 euro  → **Stay** -25050 = 12000 **13050** |
| **Login** | **Exit** | **Explanations** |
| 100000.15  1808 | He will need 12399.85 dollars to survive. | 1800 → **even**  → **Remain** 100000.15 – 12000 = **8 8000 .15**  1801 → **odd**          → **Remain**100000.15 – 12950 = **87050.15**  ...  1808 → **even**→ -399.85 – 12000 =-12399.85  **12399.85 do not reach** |

Testing of the solution: [https://judge.softuni.bg/Contests/Compete/Index/233#3](https://www.microsofttranslator.com/bv.aspx?from=bg&to=en&a=https%3A%2F%2Fjudge.softuni.bg%2FContests%2FCompete%2FIndex%2F233%233)