# A test of "programming for beginners" – 24 April 2016

## Task 2. Sleepy cat Tom

**Tom Cat**likes to sleep all day, unfortunately his play with him whenever I have free time. To get a good night's sleep, **the norm for the game** of Tom is**30 000 minutes in a year.** Play time on the Volume **depends on the weekend of his master**:

        When he was **working**, his playing with him **on 63 minutes a day**.

        When **resting**, its owner with it **in 127 minutes a day.**

Write a program that introduces a **number of weekends** and prints whether **Tom can sleep well** and how much is **the difference from the norm**for the current year, assuming that **the year has 365 days.**

**Example**: 20 days off -> the working days are 345 (365 – 20 = 245). Actual time of game is 24 275 minutes (345 \* 63 \* 20 + 127). the difference from the norm is 5 725 minutes (30 000 – 24 275 = 5 725) or 95 hours and 25 minutes.

### Login

The input is read from the console and consists of **a single number – the number of days off** – **an integer** in the range **[0...365]**

### Exit

The console must be printed **two lines**.

        If the play time of the Volume **is above normal** for the current year:

o **The first line Of**print: **"Tom will run away"**

o **The second line**print difference from the norm in the format:

**"{H} hours and {M} minutes more for play"**

        If the play time of the Volume **was below normal** for the current year:

o **On the first line**print: **"Tom sleeps well"**

o **The second line**print difference from the norm in the format:

**"{H} hours and {M} minutes less for play"**

### Sample input and output

|  |  |  |
| --- | --- | --- |
| **login** | **exit** | **comments** |
| 20 | Tom sleeps well  95 hours and 25 minutes less for play | Rest days: 20 \* 127 = 2 540 minutes of play  Working days: 365-20 = 345 \* 63 = 21 735 minutes game  > 30 000 24 274 = > 5725 remain min = 95 hours and 25 minutes |
| 113 | Tom will run away  3 hours and 47 minutes more for play | Rest days: 113 \* 127 = 14 351 minutes  Working days: 365-113 = 252 \* 63 = 15 876 minutes  < > = 30 000 30 227 227 minutes more = 3 hours and 47 minutes |