## Problem 1 – Traveller Bob

Bob loves travelling by plane. Thankfully, his job of being a businessman involves traveling a couple of times during the month. Bob is a busy man. He has months when he uses his private jet in order to go and sign new contracts. In a **contract** month, he travels **3** times per week. Although Bob loves his work, he also cares about his family. He spends **family** months, when he has **1 less travel per week** than a contract month and he travels only **2 weeks**. The other months are considered "normal" during which Bob travels 2/5 less than during contract months.

In addition, if the year is **leap**, Bob travels **5%** more overall. Assume that a month has exactly **4 weeks**.

Your task is to write a program that calculates **how many times Bob travels** around the world **during the year** (rounded **down** to the nearest integer number).

### Input

The input data should be read from the console. It consists of three input values, each at separate line:

* The string "**leap**" for leap year or "**normal**" for year that is not leap.
* The number **c** – number of months Bob signs **contracts** in the year.
* The number **f** – number of months that Bob spends with his **family**.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

The output data must be printed on the console.

* On the only output line you must print the number of travels as integer.

### Constraints

* The numbers **c** is in range [0...12] and **f** is in range [0…12].
* Allowed working time for your program: 0.25 seconds.
* Allowed memory: 16 MB.

### Examples

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| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| leap  2  1 | 97 | 12 months total in the year, split into:   * 2 contract months 🡪 4 weeks \* 3 travels 🡪 12 travels \* 2 months 🡪 **24** travels * 1 family month 🡪 2 weeks \* 2 travels 🡪 **4** travels * 9 normal months 🡪 12 travels \* 9 months 🡪 **108 travels** \* 3/5 🡪 **64.8**   Leap year 🡪 additional **5%** 🡪 (64.8 + 24 + 4) \* 5% 🡪 **4.64**  Total travels = **97.44** 🡪 **97** travels |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
| normal  5  2 | 104 | leap  2  6 | 80 | leap  4  0 | 110 | normal  0  1 | 83 |