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URI Online Judge | A

# Christimas Balls

By Jessica Dagostini, URI Online Judge BRBrazil

**Timelimit: 1**

Amelia loves Christmas, and her favorite part on this date is setting up the Christmas tree! She loves to decorate the tree with polka dots and colorful lights, so it looks bright and fun! However, Amélia likes things well distributed and demands that her tree has no more than half of branches in balls. So, if your Christmas tree has **G** branches, it needs ***G*** / 2 marbles. If the **G** number of branches is odd, that value will be rounded down.

This year, Amélia decided to update her tree and will buy a new one. Also, some of her balls broke, and she will need to know how many new balls she will need to buy to keep her tree balanced the way she likes it!

For that, she wants your help! Given the number of balls Amelia has and the number of branches her new tree will have, tell Amelia how many Christmas balls she needs to buy to decorate her new tree!

## Input

The input consists of two integer values, read on two lines, **B** (1 < **B** < 103) and **G** (100 < **G** < 1000) indicating, respectively, the number of balls that Amélia already has and the number of branches of her new Christmas tree.

## Output

Print the number of balls Amélia needs to buy to complete her tree, with the message "Faltam **B** bolinha(s)" (in English, Missing **B** ball(s)), where **B** is the number of balls that Amelia needs to buy. If Amelia has enough balls to spare, print the message "Amelia tem todas bolinhas!" (in English, "Amelia has all balls!")

| Exemplos de Entrada | Exemplos de Saída |
| --- | --- |
| 300 700 | Faltam 50 bolinha(s) |

| 300 600 | Amelia tem todas bolinhas! |
| --- | --- |

| 300 701 | Faltam 50 bolinha(s) |
| --- | --- |

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# Noel's Work Groups

By Jessica Dagostini, URI Online Judge BRBrazil

**Timelimit: 1**

Every year, Santa Claus recruits elves and gnomes for his Christmas preparation team. The sector of his production that changes the most during the year is the manufacture of gifts, as he hires temporary elves, who work **H** hours of the day with him. Also, each elf is hired for one of the 4 different working groups, where each group has some hours to produce gifts of the group type:

* Dolls group (in Portuguese, bonecos): 8 hours;
* Architects group (in Portuguese, arquitetos): 4 hours;
* Musicians group (in Portuguese, musicos): 6 hours;
* Drawners group (in Portuguese, desenhistas): 12 hours.

Note that the elves in the dolls group only produce dolls, architects, houses, and so on. But each type of gift counts as a complete gift at the end of the day.

Santa Claus has a list of the elves' names chosen this year, with the number of hours and in which group they can work. Knowing your programming skills, Noel wants a little help from you to tell him how many gifts he will be able to have ready, per day, according to the number of elves he has hired and the availability of them.

## Input

The first input value is an integer **N** (1 ≤ **N** ≤ 1000), indicating the number of elves Santa has hired. The following **N** lines have three values **E, G** and **H** (1 ≤ **H** ≤ 24), indicating respectively the name of the elf, which group he/she will work in (in lower case) and how many hours a day he will help (in full value).

## Output

The output should be an integer **P** , the total amount of gifts produced per day by Santa’s factory.

| Input Sample | Output Sample |
| --- | --- |
| 7 Aradhel bonecos 10 Aerin arquitetos 15 Anna musicos 10 Elbereth musicos 10 Freda desenhistas 15 Arwen bonecos 10 Logolas bonecos 10 | 10 |

Contest de Natal 2020