# Future Scientist



*As a future scientist you still have so many things to learn and you have to distribute your free time correctly in order for you to have time for everything.*

Write a program that checks if you managed to take enough science courses in order to take the final test and become real scientist. You will receive **3 lines of input**. The **first** line will be how many **days** you have to complete all the courses. On the **second** line you will be given the **amount of courses** you need to watch in that period. On the **last line** you will receive the **hours** needed for **each course**.

Your task is to calculate if you have **enough time** to watch all the courses. There are some additional conditions though:

* Every **second** and **tenth day** are learning days, meaning that in those days you spend **4 hours of learning**
* Every **fifth day** is more relaxed learning day, meaning that in that day you spend **2 hours of learning**
* In all **other days** you have to go to work, so you spend only **1 hour of learning**

After you have done the calculations you have to print one of the outputs below:

* If you had **enough time**: **"You watched all the courses and are left with {hours\_left} free hours"**
* If you did **not have enough time**: **"You need to complete {count\_uncomplete\_courses} more courses"**

### Input

3 lines of input:

* Days to complete the courses
* Amount of courses to complete
* Hours needed per course

### Output

Print the output as described above

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 10  5  5 | You watched all the courses and are left with 1 free hours | The total hours are 5\*5=**25**  The days of learning are **5**  The days of relaxed learning are **1**  The casual days are **4**  Total available hours are 4+5\*4+1\*2=**26**  You are left with **1 free hour** |
| 5  10  2 | You need to complete 4 more courses | You only have **12 available** hours to watch **20 hours** of courses, so there are **4 courses** that you **did not** have time to watch |

*What is the chemical formula of coffee? CoFe2…*