## Problem 1 – Baba Tinche Airlines

Every month Baba Tinche travels to the Republic of Tajikistan to meet her boyfriend. But the tickets are so expensive that she decides to establish her own airline instead called Baba Tinche Airlines. There are **three travel classes** in Baba Tinche Airlines:

* **First Class** which accommodates **12 passengers**. The ticket priceis **$7000**.
* **Business Class** which accommodates **28 passengers**. The ticket price is **$3500**.
* **Economy Class** which accommodates **50 passengers**. The ticket price is **$1000**.

Please note that **some passengers** are **Frequent Flyers** and **their tickets** are **70% off** ($1000 ticket will cost $700). Also **some passengers purchase a meal** on the flight, which **costs 0.5%** of the **ticket price** for the travel class they are in. Please help Baba Tinche **calculate her income** and **calculate the difference between** **her income** and **the maximum possible income** (the maximum possible income being **all seats taken**, **no** **Frequent Flyers** and **everyone** **purchasing meals**). You will be given the number of passengers **for each class**, the number of passengers **who are** **Frequent Flyers** in that class, and the number of passengers **who purchase a meal** in that class.

### Input

The input data should be read from the console. It consists of exactly 3 lines:

* The **first line** holds the number of **all passengers** in **First Class**
* The **second** **line** holds the number of **all passengers** in **Business Class**
* The **third line** holds the number of **all passengers** in **Economy Class**
* The **second** and **third** **number** on **all lines** will be the **number of Frequent Flyers** and the number of passengers who will **purchase** **a** **meal** in the given class.

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

### Output

The output should be printed on the console. It should consist of **exactly 2** lines.

* The **first line** will hold Baba Tinche’s income **cast to an integer**
* The **second** **line** holding the difference between the **maximum** **possible** **profit** and baba Tinche’s **actual** **profit** **cast to an integer**

### Constraints

* The **first number** in the **first line** will be in the range [0…12].
* The **first number** in the **second line** will be in the range [0…28].
* The **first number** in the **third line** will be in the range [0…50].
* The **second and third numbers** on all lineswill be less or equal to the **first** **number**.
* Allowed memory: 16 MB. Allowed working time: 0.25 seconds.

### Examples

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
| 6 1 2  21 8 7  44 12 17 | 126877  106283 | 8 2 1  26 4 15  50 16 23 | 166612  66548 | 2 0 0  2 0 0  2 0 0 | 23000  210160 | 11 4 6  24 6 10  38 2 5 | 163710  69450 |