Problem 2 – Build a Wall

The Mexicans are coming to take our jobs! To protect our freedom, we must build a wall around our country.

Write a JS program that keeps track of the construction of a **30-foot** wall. You will be given an **array** of strings that must be parsed as **numbers**, representing the initial height of mile-long sections of the wall, in feet. Each section has its own construction crew that can **add 1** foot of height per day by using 195 cubic yards of concrete. All crews work simultaneously (see examples), meaning all sections that aren't completed (are less than 30 feet high) grow by 1 foot every day. When a section of the wall is complete, its crew is relieved.

Your program needs to keep track of how much concrete is used **daily** until the completion of the entire wall. At the end, print on a single line, separated by comma and space, the amount of concrete used each day, and on a second line, the **final cost** of the wall. One cubic yard of concrete costs 1900 pesos.

Input

Your program will receive an **array** of strings representing numbers as a **parameter**.

Output

Print on the **console** on one line the amount of concrete used each day separated by comma and space, and on a second line, the final cost of the wall.

Constraints

- The wall may contain up to 2000 sections (2000 elements in the initial array)
- Starting height for each section is within range [0…30]

Examples

Input	Output
[21, 25, 28]	585, 585, 390, 390, 390, 195, 195, 195, 195 5928000 pesos

Explanation

On the **first day**, all three crews work, each adding 1 foot to their section, 585 cubic yards total (3 x 195). On the **second day**, it's the same with the last section reaching 30 feet and its crew being relieved (marked in green while they don't work). On the **third day**, only two crews work, using up 390 cubic yards total. This continues for **2 more days**, with the second section reaching 30 feet. In the remaining **4 days**, only 1 crew works, using 195 cubic yards every day. Over the entire period, 3120 cubic yards of concrete were used, costing 5'928'000 pesos. And that was for just 3 miles, imagine 2000!

```
Starting  [21, 25, 28]
   Day 1  [22, 26, 29]
   Day 2  [23, 27, 30]
   Day 3  [24, 28, 30]
   Day 4  [25, 25, 30]
   Day 5  [26, 30, 30]
   Day 6  [27, 30, 30]
   Day 7  [28, 30, 30]
   Day 8  [29, 30, 30]
   Day 9  [30, 30, 30]
```

Scroll down for more examples.

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Input	Output
[17]	195, 195, 195, 195, 195, 195, 195, 195, 195, 195, 195, 195, 195 4816500 pesos

Input	Output
[17, 22, 17, 19, 17]	975, 975, 975, 975, 975, 975, 975, 975, 780, 780, 780, 585, 585 21489000 pesos