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# 1. Backyard Fence

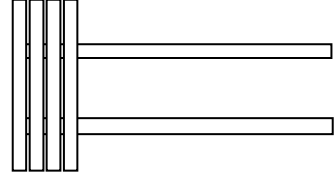
**Program Name: Backyard.java**

**Input File: backyard.dat**

The ABC Fence Company installs new fencing in customers' yards. Instead of installing pre-manufactured panels, the ABC Fence Company builds their fences one board at a time. Lucas, the job foreman, needs you to write a program for him so he will know how many boards and pickets he must buy to install a particular fence.

For each fence, he needs two rails that run the length of the fence horizontally and are made from 6' lengths of 2" x 4" boards. To avoid waste, these boards may be cut and divided between the two rails if possible. For the purposes of this problem, assume that none of the length of the board is lost in a cut.

Additionally, he needs enough vertical boards, called pickets, to cover the length of the fence. The width of each picket is  $1\frac{3}{4}$  inches and he leaves a  $\frac{1}{8}$  inch gap between boards to allow for expansion caused by weather. To allow for the possibility of damaged pickets, Lucas always buys some overage of one extra picket for every 10 feet, or part thereof, of fencing to be installed. Lucas does not order an extra picket to cover a partial picket width at the end of the fence since he can use his overage to cover that space. Since Lucas makes his own gates from the fencing materials, no extra boards or pickets are needed for gates.



You are to write a program to determine how many 2" x 4" boards he will need for the rails and how many pickets, including the overage, he will need to cover the rails.

## Input

The first line of input will contain a single integer  $n$  that indicates the number of fences to be built. Each of the following  $n$  lines will contain a single integer that indicates the length in feet of a fence to be built.

## Output

On a single line for each fence, print two integers in the form  $b \ p$  where  $b$  is the number of 6' boards he needs to buy and  $p$  is the number of pickets he needs to buy to build the fence.

## Example Input File

```
4
125
275
93
154
```

## Example Output to Screen

```
42 813
92 1788
31 605
52 1001
```