X Table Officials
X points

Introduction

The table officials in a basketball match are responsible for keeping track of each team's scoring, timekeeping, individual and team fouls, player substitutions, team possession and the shot clock. By the end of the match you will help them to provide some data and statistics like the total amount of points per player and its overall shooting effectiveness. So you decide a simple program to ease this task.

Input

The input refers to the data of a single player and will be always four positive integer numbers split into four lines where:

- The first number is the total of free throws scored with a value of one point.
- The second number is the total of field goals of two points.
- The third number is the total of field goals scored behind the three-point line.
- The fourth number is the total of shoots performed during the match.

Output

A single line representing the total amount of points achieved by the player and its effectiveness percentage (without decimals).

Example 1

Input

```
1
6
2
12
```

Output

```
19 75%
```

Example 2

Input

```
1
0
1
9
```

Output

```
4 22%
```