Problem 1. Party Profit

As a young adventurer, you travel with your party around the world, seeking for gold and glory. But you need to split the profit among your companions.

You will receive a party size. After that you receive the days of the adventure.

Every day, you are earning 50 coins, but you also spent 2 coin per companion for food.

Every 3rd (third) day, you have a motivational party, spending 3 coins per companion for drinking water.

Every **5**th (fifth) day you slay a boss monster and you **gain 20 coins per companion**. But if you have a motivational party the same day, you **spent additional 2 coins per companion**.

Every 10th (tenth) day at the start of the day, 2 (two) of your companions leave, but every 15th (fifteenth) day 5 (five) new companions are joined at the beginning of the day.

You have to calculate how much coins gets each companion at the end of the adventure.

Input / Constraints

The input will consist of exactly 2 lines:

- party size integer in range [1...100]
- days integer in range [1...100]

Output

Print the following message: "{companionsCount} companions received {coins} coins each."

You cannot split a coin, so take the integral part (round down the coins to integer number).

Examples

| Input | Output |
|-------|--|
| 3 | 3 companions received 90 coins each. |
| 5 | |
| | |
| Input | Output |
| 15 | 19 companions received 102 coins each. |
| 30 | |

...Each companion has a distinct personality and values...















