Problem 1. Vapor Winter Sale

Our favorite gaming platform, Vapor, has started its yearly winter sale. Stamat wants to buy some games and he wants to make a list.

Your task is to take **every game** and add it **with its price**. The games **may have DLCs** (downloadable content), which you should also add. The games will be given in the following format **"{game}-{price}"**. The game names will contain only letters, digits and spaces. The DLCs will be given in the following format **"{game}:{DLC}"**. **All the of the inputs** will be divided by **", "**. You should only add the DLC **if the game already exists**. The DLC **increases** the game price by **20%**.

After you have processed all the games you should **lower the prices** of all the games by **20% if they don't have a DLC** and by **50% if they do**. After this you should print the games **with DLCs**, **ordered ascending by price**, and then all the games **without DLCs**, **ordered descending by price**, in the following format:

- If the game **has** a DLC:
    - **"{game} - {DLC} - {price}"**
- If the game **doesn't have** a DLC:
    - **"{game} - {price}"**

The prices should be formatted to the second decimal place.

Input

One **string** with inputs, divided by **", "**. Each input of the string will be in one of the following formats – **"{game}-{price}"** or **"{game}:{DLC}"**.

You don't have to check the input, it will always be valid.

Output

"{game1} - {DLC} - {price}"

"{game2} - {DLC} - {price}"

...

"{game n} - {price}"

"{game n + 1} - {price}"

...

Examples

Input	Output
WitHer 3-50, FullLife 3-60, WitHer 3:Blood and Beer, Cyberfunk 2077-120, League of Leg Ends-10, League of Leg Ends:DoaT	League of Leg Ends - DoaT - 6.00 WitHer 3 - Blood and Beer - 30.00 Cyberfunk 2077 - 96.00 FullLife 3 - 48.00

Input	Output
Center Strike-14.99, FortLite-25, BattleShield 5-64.74, BattleShield 5:CoD edition, Dog of War-45, Dead Red Redemption-100, Dead Red Redemption:no DLC	BattleShield 5 - CoD edition - 38.84 Dead Red Redemption - no DLC - 60.00 Dog of War - 36.00 FortLite - 20.00 Center Strike - 11.99