2288. Apply Discount to Prices

Solved

Medium Topics Hint

A **sentence** is a string of single-space separated words where each word can contain digits, lowercase letters, and the dollar sign `'$'`. A word represents a **price** if it is a sequence of digits preceded by a dollar sign.

- For example, `"$100"`, `"$23"`, and `"$6"` represent prices while `"100"`, `"$"`, and `"$1e5"` do not.

You are given a string `sentence` representing a sentence and an integer `discount`. For each word representing a price, apply a discount of `discount%` on the price and **update** the word in the sentence. All updated prices should be represented with **exactly two** decimal places.

Return *a string representing the modified sentence*.

Note that all prices will contain **at most** `10` digits.

Example 1:

> **Input:** sentence = "there are $1 $2 and 5$ candies in the shop", discount = 50
> **Output:** "there are $0.50 $1.00 and 5$ candies in the shop"
> **Explanation:**
> The words which represent prices are "$1" and "$2".
> - A 50% discount on "$1" yields "$0.50", so "$1" is replaced by "$0.50".
> - A 50% discount on "$2" yields "$1". Since we need to have exactly 2 decimal places after a price, we replace "$2" with "$1.00".

Example 2:

> **Input:** sentence = "1 2 $3 4 $5 $6 7 8$ $9 10", discount = 100
> **Output:** "1 2 $0.00 4 $0.00 $0.00 7 8$ $0.00 10"
> **Explanation:**
> Applying a 100% discount on any price will result in 0.
> The words representing prices are "$3", "$5", "$6", and "$9".
> Each of them is replaced by "$0.00".

Constraints:

- `1 <= sentence.length <= 10^5`
- `sentence` consists of lowercase English letters, digits, `' '`, and `'$'`.
- `sentence` does not have leading or trailing spaces.
- All words in `sentence` are separated by a single space.
- All prices will be **positive** numbers without leading zeros.
- All prices will have **at most** `10` digits.
- `0 <= discount <= 100`

Seen this question in a real interview before? 1/5

Yes No

Accepted 29.939/90.1K | Acceptance Rate 33.2%

Topics

Hint 1

Hint 2

Similar Questions

Discussion (27)