2288. Apply Discount to Prices

Solved •



A sentence is a string of single-space separated words where each word can contain digits, lowercase letters, and the dollar sign (\$1). 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:

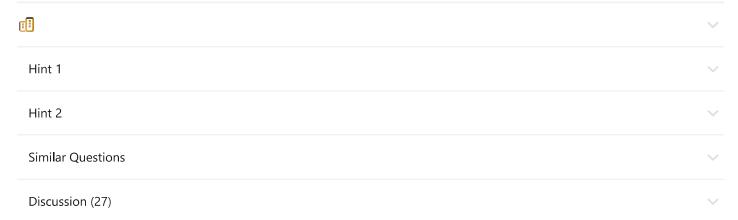
- 1 <= sentence.length <= 10⁵
- sentence consists of lowercase English letters, digits, '', and '\$'.
- sentence does not have leading or trailing spaces.
- All words in sentence are separated by a single space.
- All prices will be **positive** numbers without leading zeros.
- All prices will have at 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



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