

6079. Apply Discount to Prices

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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 non-negative real number preceded by a dollar sign.

- For example, "\$100" , "\$23" , and "\$6.75" represent prices while "100" , "\$" , and "2\$3" 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.

|                    |        |
|--------------------|--------|
| User Accepted:     | 0      |
| User Tried:        | 0      |
| Total Accepted:    | 0      |
| Total Submissions: | 0      |
| Difficulty:        | Medium |

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<sup>5</sup>
- 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** integers without leading zeros.
- All prices will have **at most 10** digits.
- 0 <= discount <= 100

JavaScript


```
1 const discountPrices = (ss, discount) => {
2   let a = ss.split(" "), n = a.length, res = Array(n).fill("");
3   for (let i = 0; i < n; i++) {
4     let s = a[i];
5     if (valid(s)) {
6       let x = s.slice(1) - '0';
7       x *= (1 - discount / 100);
8       x = x.toFixed(2);
9       // pr(s, x);
10      res[i] = '$' + x;
11    } else {
12      res[i] = s;
13    }
14  }
15  return res.join(" ");
16 };
17
18 const ok = (c) => '.0123456789'.indexOf(c) != -1;
19 const valid = (s) => {
20   if (s.length == 1) return false;
```

```
21     if (s[0] != '$') return false;
22     for (let i = 1; i < s.length; i++) {
23         if (!ok(s[i])) return false;
24     }
25     return true;
26 };
```

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