571. Find Median Given Frequency of Numbers

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SQL Schema >   Pandas Schema >
Table: `Numbers`

```
+---------------+-------+
| Column Name   | Type  |
+---------------+-------+
| num           | int   |
| frequency     | int   |
+---------------+-------+
num is the primary key (column with unique values) for this table.
Each row of this table shows the frequency of a number in the database.
```

The **median** is the value separating the higher half from the lower half of a data sample.

Write a solution to report the **median** of all the numbers in the database after decompressing the `Numbers` table. Round the median to **one decimal point**.

The result format is in the following example.

Example 1:

```
Input:
Numbers table:
+------+-----------+
| num  | frequency |
+------+-----------+
| 0    | 7         |
| 1    | 1         |
| 2    | 3         |
| 3    | 1         |
+------+-----------+
Output:
+--------+
| median |
+--------+
| 0.0    |
+--------+
Explanation:
If we decompress the Numbers table, we will get [0, 0, 0, 0, 0, 0, 0, 1, 2, 2, 2, 3],
so the median is (0 + 0) / 2 = 0.
```

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Yes   No

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