

# 571. Find Median Given Frequency of Numbers

## Description

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:

<b>Input:</b>		
Numbers table:		
+-----+-----+		
num	frequency	
+-----+-----+		
0	7	
1	1	
2	3	
3	1	
+-----+-----+		
<b>Output:</b>		
+-----+		
median		
+-----+		
0.0		
+-----+		
<b>Explanation:</b>		
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.		

