Implement the class TweetCounts that supports two methods:

1. recordTweet(string tweetName, int time)

* Stores the tweetName at the recorded time (in **seconds**).

2. getTweetCountsPerFrequency(string freq, string tweetName, int startTime, int endTime)

* Returns the total number of occurrences for the given tweetName per **minute**, **hour**, or **day** (depending on freq) starting from the startTime (in **seconds**) and ending at the endTime (in **seconds**).
* freq is always **minute***,***hour***or****day***, representing the time interval to get the total number of occurrences for the given tweetName.
* The first time interval always starts from the startTime, so the time intervals are [startTime, startTime + delta\*1>,  [startTime + delta\*1, startTime + delta\*2>, [startTime + delta\*2, startTime + delta\*3>, ... , [startTime + delta\*i, **min**(startTime + delta\*(i+1), endTime + 1)> for some non-negative number i and delta (which depends on freq).

**Example:**

**Input**

["TweetCounts","recordTweet","recordTweet","recordTweet","getTweetCountsPerFrequency","getTweetCountsPerFrequency","recordTweet","getTweetCountsPerFrequency"]

[[],["tweet3",0],["tweet3",60],["tweet3",10],["minute","tweet3",0,59],["minute","tweet3",0,60],["tweet3",120],["hour","tweet3",0,210]]

**Output**

[null,null,null,null,[2],[2,1],null,[4]]

**Explanation**

TweetCounts tweetCounts = new TweetCounts();

tweetCounts.recordTweet("tweet3", 0);

tweetCounts.recordTweet("tweet3", 60);

tweetCounts.recordTweet("tweet3", 10); // All tweets correspond to "tweet3" with recorded times at 0, 10 and 60.

tweetCounts.getTweetCountsPerFrequency("minute", "tweet3", 0, 59); // return [2]. The frequency is per minute (60 seconds), so there is one interval of time: 1) [0, 60> - > 2 tweets.

tweetCounts.getTweetCountsPerFrequency("minute", "tweet3", 0, 60); // return [2, 1]. The frequency is per minute (60 seconds), so there are two intervals of time: 1) [0, 60> - > 2 tweets, and 2) [60,61> - > 1 tweet.

tweetCounts.recordTweet("tweet3", 120); // All tweets correspond to "tweet3" with recorded times at 0, 10, 60 and 120.

tweetCounts.getTweetCountsPerFrequency("hour", "tweet3", 0, 210); // return [4]. The frequency is per hour (3600 seconds), so there is one interval of time: 1) [0, 211> - > 4 tweets.

**Constraints:**

* There will be at most 10000 operations considering both recordTweet and getTweetCountsPerFrequency.
* 0 <= time, startTime, endTime <= 10^9
* 0 <= endTime - startTime <= 10^4