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title	How many persons have a given number of messages
pattern	

pattern diagram:

- 2. personCount = count — **Person** — *aggregate Persons having the same messageCount value*
- ← hasCreator —
- 1. messageCount = count — **Message** — *content not empty & length < $lengthThreshold & creationDate > $date*
- — replyOf*0.. → — **Post** — *language in $languages*

| desc. | For each Person, count the number of Messages they made (`messageCount`). Only count Messages with the following attributes:

- Its `content` is not empty (and consequently, `imageFile` empty for Posts).
- Its `length` is below the `lengthThreshold` (exclusive, equality is not allowed).
- Its `creationDate` is after `date` (exclusive, equality is not allowed).
- It is written in any of the given `languages`.
  - The language of a Post is defined by its `language` attribute.
  - The language of a Comment is that of the Post that initiates the thread where the Comment replies to.

The Post and Comments in the reply tree's path (from the Message to the Post) do not have to satisfy the constraints for `content`, `length` and `creationDate`.

For each `messageCount` value, count the number of Persons with exactly `messageCount` Messages (with the required attributes). |

params

1	date	Date	
2	lengthThreshold	32-bit Integer	
3	languages	String[]	

result

1	messageCount	32-bit Integer	A	Number of Messages created
2	personCount	32-bit Integer	A	Number of Persons with `messageCount` messages

sort

1	personCount	↓	
2	messageCount	↓	

CPs	1.1, 1.2, 1.4, 3.2, 4.2, 4.3, 8.1, 8.2, 8.3, 8.4, 8.5