Coding Test

Objective

The objective of this task is design, implement and test a thread-safe 'forgetting map'.

A 'forgetting' map should hold associations between a ‘key’ and some ‘content’. It should implement at least two methods:

1. add (add an association)
2. find (find content using the specified key).

It should hold as many associations as it can, but no more than x associations at any time, with x being a parameter passed to the constructor. The association that is least used is removed from the map when a new entry requires a space and the map is at capacity, where “least used” relates to the number of times each association has been retrieved by the “find” method.  A suitable tie breaker should be used in the case where there are multiple least-used entries.

Implementation

* Java would be preferable.
* You may use standard collections (HashMap, LinkedList, etc.) to build your solution but the use of a pre-existing library solution with the required behaviour, though an option in everyday work, is not what we’re looking for here.

Please note any design decisions in code or in readme file.