



TDDBUDDY.COM

Memory Cache

The Kata

A memory cache is a simple storage paradigm. A dictionary is a good example of a memory cache. It's values are stored and retrieved via a key.

Unlike a dictionary, it's data goes stale as defined by a time to live (TTL). It also has a maximum capacity. Once the cache's capacity is reached the least-recently-used key-value pair is removed and replaced with the new incoming value.

The cache is to hold a maximum of 100 entries with a TTL of 60 seconds.

Assume the key and value are always strings.

Bonus

1. Allow the TTL and maximum size to be read in via a configuration file. Be sure to handle cases where the configuration file is not present, has negative TTL or size limits.
2. Allow for the value type to be read in via the configuration file. E.g. int, double, MyAwesomeType. It should handle both primitives and custom object types.