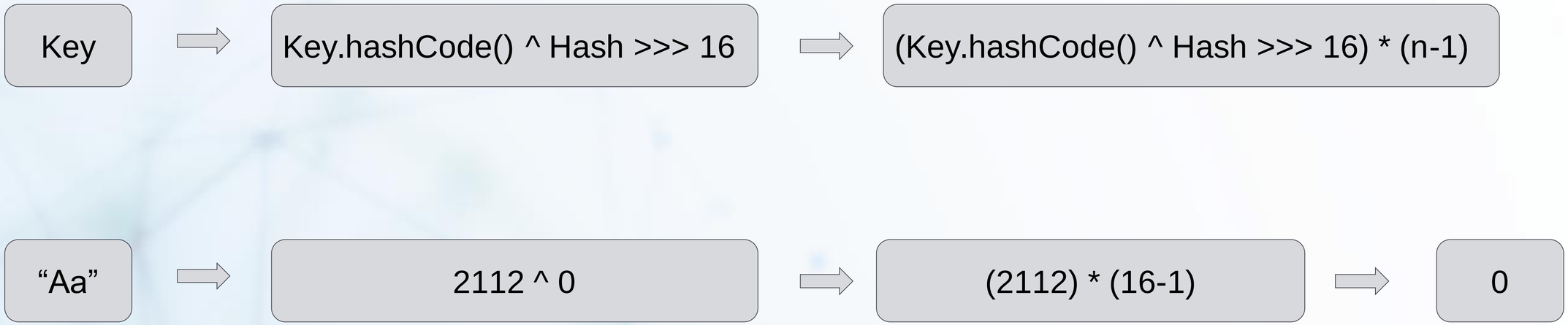
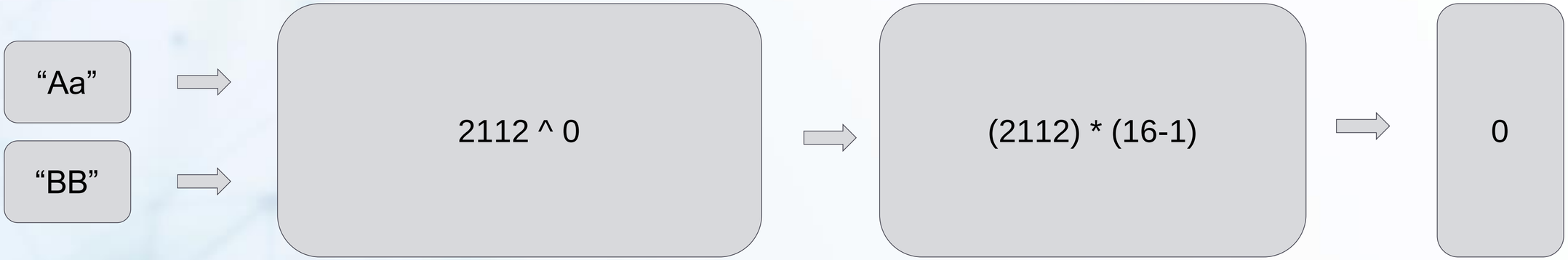
HashMap

HashMap – Hashing calculation



HashMap – Hash Collision



HashMap – Java 8 Enhancements

Java 8 improves the performance by converting the linked list into a **Red-black Tree** if the size is bigger than a threshold.

Methods

- entrySet()
- put(Object key, Object value)
- putAll(Map map)
- get(Object key)
- getOrDefault(Object key, V default Val)
- clone()
- containsValue(Object value)
- containsKey(Object key)
- keySet()
- values()
- remove(Obj key, Obj value)

HashSet

HashSet Internals

HashSet Methods

Complexity

First Problem

Given an array of integers nums and an integer target, return indices of the two numbers such that they add up to target.

You may assume that each input would have exactly one solution, and you may not use the same element twice.

Input: nums = [2,7,11,15], target = 9
Output: [0,1]