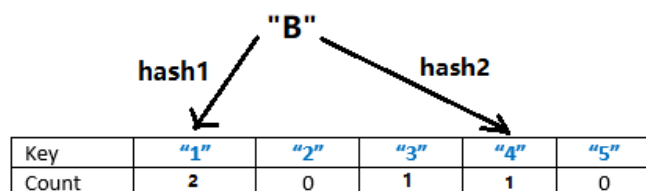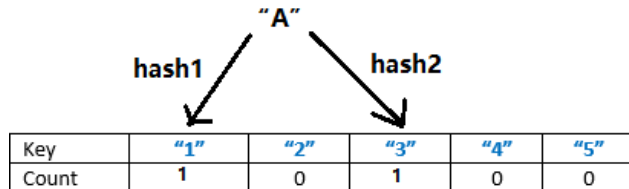Author: Diego JIN
GitHub: https://github.com/diego-king

Counting Bloom Filter

1. Using multiple "Hash" function to judge whether a key exist or not.
2. It is quick way to find the key is not existed in Database.

Add a Value

1. Increase count based different hash functions.

Key	"1"	"2"	"3"	"4"	"5"
Count	1	0	1	0	0

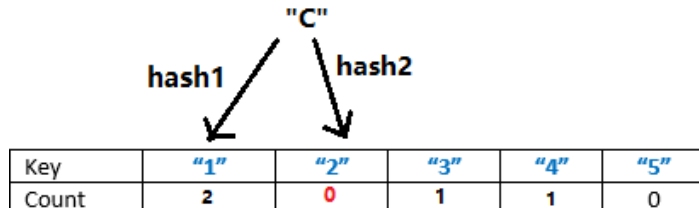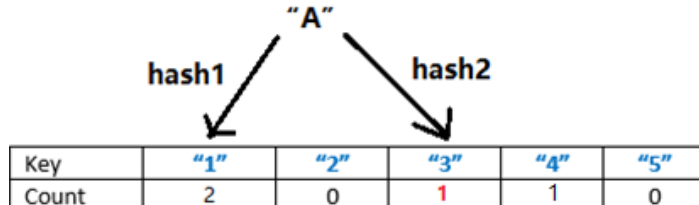| Key	"1"	"2"	"3"	"4"	"5"
Count	2	0	1	1	0

Check exists

1. The value equals to the lowest one.
Note: False (Not exist) is always false, true (exist) may be wrong.

"C" is not existed for lowest count is 0.

Key	"1"	"2"	"3"	"4"	"5"
Count	2	0	1	1	0

"A" is existed, for the lowest count is 1.

Key	"1"	"2"	"3"	"4"	"5"
Count	2	0	1	1	0

Remove a value

1. Decrease value in each key by 1.

"A" is removed.

Key	"1"	"2"	"3"	"4"	"5"
Count	1	0	0	1	0