Key	Intermediate Key
(0,0)	hash(Square_0)
(0,1)	hash(Square_0)
(0,2)	hash(Square_1)
(0,3)	hash(Square_1)
...	...

Intermediate Key	Region
hash(Square_0)	Square_0
hash(Square_1)	Square_1
hash(Square_2)	Square_2
hash(Square_3)	Square_3