DHT Definitions Reference Sheet

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1 Chord

- m is the key length, 2^m is the size of the keyspace.
- The range of the keyspace is $[0, 2^m)$

$$distance(a,b) = (b-a+2^m) \mod 2^m$$

$$midpoint(a,b) = a + \frac{distance(a,b)}{2} \mod 2^m$$

Ownership A node own everything falling into the range from my predecessor on the ring to myself. In other words, I own key if

$$key \in (predcessor, me]$$

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