Local space : max 2<sup>5</sup> node/leafs Let's run N6.find\_node(N28) Space of 160-bit numbers 11...11 00...00 N6.find node(N28)  $00110 \text{ XOR } 11100 = 26 \in [16,32)$ take N20 from kbucket(N6) 0 0 N20.find node(N28)  $10100 \text{ XOR } 11100 = 8 \in [8,16)$ 0 take N26 from kbucket(N20) N20 0 0 N28 N26.find node(N28) 11010 XOR 11100 =  $6 \in [4,8)$ take N30 from kbucket(N26) 0 0 N30 > N30.find node(N28) 11110 XOR 11100 =  $2 \in [2,4)$ found N28 🙂 😅 😅 kbucket/N6/ kbucket N20 kbucket N26 kbucket N30 [1,2) [1,2) [2,4) [2,4) N28 [2,4) [2,4) 3 [4,8) [4,8) [4,8) **N30** [4,8) [8,16) [8,16) [8,16) **N26** [8,16) [16,32) **N20** [16,32) [16,32)