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1 Q9.9

(1)

$$Cube_2(12) = 12xorbin(0100) = 8$$

 $\sigma(8) = 8 << 1 = 16$
 $\beta(9) = 24$
 $PM2I_{+3}(28) = (28 + 8)mod32 = 4$
 $Cube_0(\sigma(4)) = 8 + 1 = 9$
 $\sigma(Cube_0(18)) = (uint5_t)19 << 1 = 7$

- (2) 网络直径为2n-1=9,由 $\sin(00101)$ 到 $\sin(00111)$,依次经过6步: 00101 -> 01010 -> 10100 -> 01001 -> 10010 -> 00111
- (3) 网络直径为3, 结点度为9, 与2号距离最远的是13, 15, 21, 23。

2 Q9.13

能.

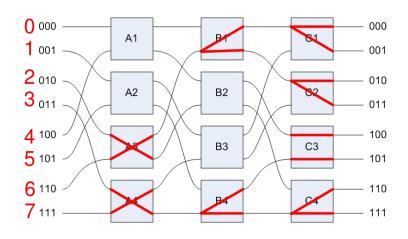


Figure 1: 开关状态图