

- ⑧ Codeword distance of 12 detects upto 11 errors,
corrects up to r errors where $12 \geq 2r+1$
so $r=5$

- $$A^* = \begin{bmatrix} 0 & 0 & 1 \\ 0 & 1 & 1 \\ 1 & 1 & 1 \\ 0 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

1, $(010101) \cdot A^* = (116)$,
so it is not a codeword

- 2 C_3 's sharing one vertex

2 C₃'s sharing
one edge

C₄ and C₃ sharing edge

2 C4's

- 12
- S
- 0 — 7 — 10 ← 13
- ↑ ↓ ↓
- 4 ← 5 — 9 — 15
- ↑ ↓
- 7 — 6 ← 8 — 16 A

arrows show previous vertex