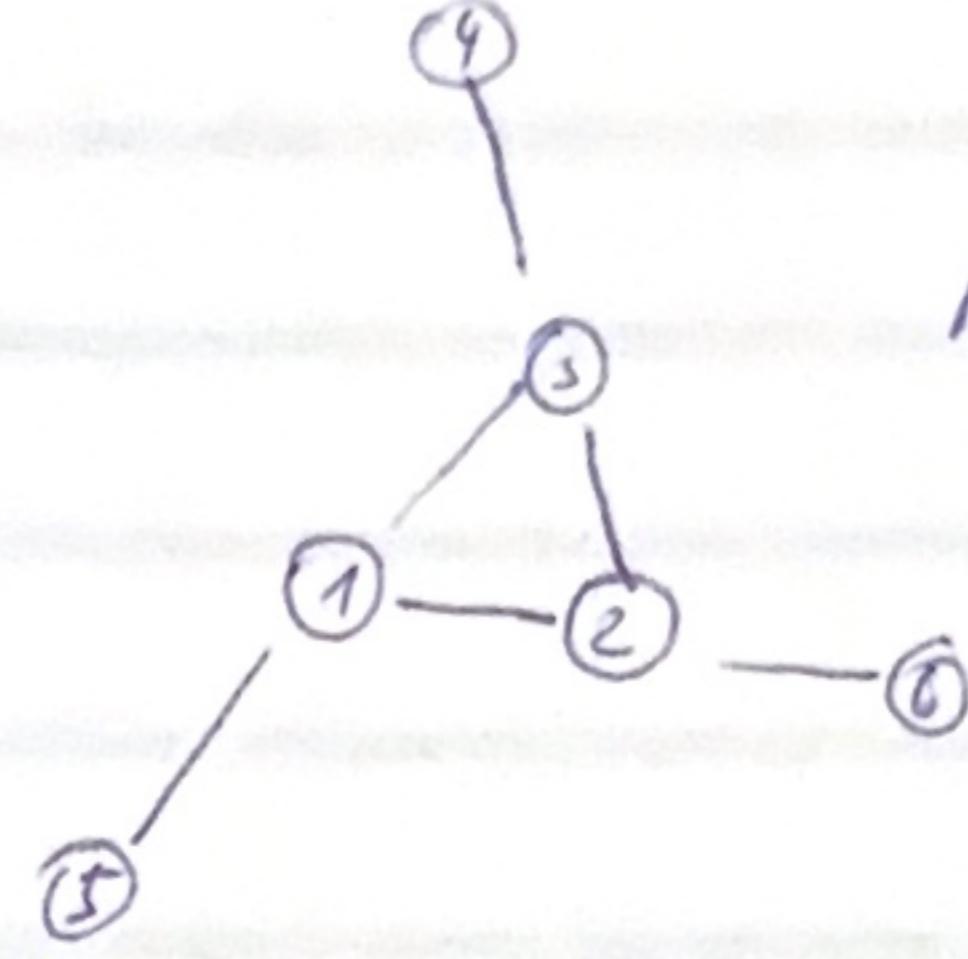


MAGIC 3-GON RING

$$N = 3$$

$$M = 2N$$

$x_i = \{1, 2, 3, 4, 5, 6\}; \quad i \in \{1, m\} \quad \text{ORDERED}$



$$N = 3$$

POSSIBLE TOTALS:

$$\sum_{i=1}^n x_i + \min(x_i + x_j + x_k) \quad i, j, k \in \{1, n\}$$

$$\min(x_{e1} + x_{e2} + \dots + x_{eN})$$

$$= \text{TOTAL}_{\min} = \sum_{i=1}^m + x_1 + x_2 + x_N$$

$$i+j+k$$

$$e_1 + e_2 + e_N \in \{1, n\}$$

$$\sum_{i=1}^n + \max(x_{e1} + x_{e2} + \dots + x_{eN}) = \text{TOTAL}_{\max} = \sum$$

$$T_{\min} = \frac{n(n+1)}{2} + x_1 + x_2 + \dots + x_N$$

$$T_{\max} = \frac{n(n+1)}{2} + x_{N+1} + \dots + x_m$$

$$T_{\min} = \frac{6 \cdot 7}{2} + 1 + 2 + 3 = 27$$

$$T_{\max} = 21 + 4 + 5 + 6 = 36$$

$$t \in \{ \text{TOTAL} / t \in \{T_{\min}, T_{\max}\} \}$$

$$t \in \{27, 30, 33, 36\}$$

$$T_i \in \{9, 10, 11, 12\}$$

$$T_i = \frac{t_i}{3}$$

$$= 95$$

$$T_{\min} = \frac{10}{8} f(56) = 70$$

$$t_i \in \{70, 75, 80, 85, 90, 95\}$$

$$T \in \{14, 15, 16, 17, 18, 19\}$$

$$T_{\min} = \frac{m}{8}(5m+6) = \frac{N}{4}(10N+6) / N = \frac{10N+6}{4}$$

$$T_{\max} = \frac{m}{4}\left(\frac{7m}{2} + 3\right) = \frac{N}{2}(7N+3) / N = \frac{7N+3}{2}$$