

Israel Peretz

$$\sum_{i=m}^n C = f(C, n, m) \\ = C + C + C + \dots + C$$

$$C \sum_{i=m}^n 1 = f(C, n, m) \\ = C \left(\sum_{i=1}^n 1 - \sum_{i=1}^{m-1} 1 \right) \\ = C(n - (m-1))$$

$$\sum_{i=m}^n C = C(n - m + 1)$$