$$S - \text{Micel}$$

$$Sk = 1^{k} + 2^{k} + 3^{k} + ... + m^{k}$$

$$S_{1} = 1 + 2 + 3 + ... + m$$

$$S_{1} = n + (m+1) + ... + 2 + 1$$

$$2 S_{1} = (m+1) + (m+1) + ... + (m+1) + (m+1) = m \cdot (m+1)$$

$$S_{1} = \frac{m \cdot (m+1)}{2}$$

$$K = 2 \qquad \text{oby mu dostali suices intercor}$$

$$S_2 = 1^2 + 2^2 + 3^2 + \dots + m^2$$

$$(m+1)^3 - m^3 = m^3 + 3m^2 + 3m + 1 - m^3$$

$$(m+1)^3 - m^3 = 3m^2 + 3 + 1$$

 $2x^{3} - 1^{3} = 3(1)^{2} + 3 \cdot 1 \cdot 11$ $2x^{3} - 2x^{3} = \dots$ $2x^{3} - 2x^{3} = \dots$

 $(ma+1)^{3} - (ma+1)^{3} = ...$ $(ma+1)^{3} - (ma+1)^{3} = 3ma^{2} + 3mn + 1$ $(m+1)^{3} - 1^{3} = 3 \cdot (1^{2} + 2^{2} + 3^{2} + ... + m^{2}) + 3S_{1}$