

AED 2 - Algoritmo e Estrutura de Dados 2

Quiz 4

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1. Podemos afirmar que $\sum_0^5 i.(i-1).(5-i) = \sum_2^4 i.(i-1).(5-i)$? *Justifique.*

Sim.

$$\begin{aligned} \sum_0^5 i.(i-1).(5-i) &= \\ (0 \times (-1) \times 5) + \\ (1 \times 0 \times 4) + \\ (2 \times 1 \times 3) + \\ (3 \times 2 \times 2) + \\ (4 \times 3 \times 1) + \\ (5 \times 4 \times 0) &= \\ 0 + 0 + 6 + 12 + 12 + 0 &= 30 \end{aligned}$$

$$\sum_2^4 i.(i-1).(5-i) = (2 \times 1 \times 3) + (3 \times 2 \times 2) + (4 \times 3 \times 1) = 6 + 12 + 10 = 30$$