

The cost tables

- $\text{cost}(i, j, h)$: the cost (total error) of the best way of segmenting sequence a_i, \dots, a_j using h segments
- Using a single segment: $c(i, j) =$ average of a_i, \dots, a_j

$$\text{cost}(i, j, 1) = \sum_{l=1}^j (a_l - c(i, j))^2$$

(L_2 metric) or with $m(i, j) =$ median of a_i, \dots, a_j

$$\text{cost}(i, j, 1) = \sum_{l=1}^j |a_l - m(i, j)|$$

(L_1 metric)

Using multiple segments

$$\text{cost}(1, j, h) = \min_{l=i+1}^{j-1} \text{cost}(1, l, h-1) + \text{cost}(l+1, j, 1).$$

