
Algorithm 1: μ et ρ

1 **def** $\rho(\mathcal{X})$:

2 $Z \leftarrow \mathcal{X}.pop()$

3 $Y \leftarrow \mathcal{X}.pop()$

4 **return** $\text{size}(Y) > \alpha \cdot \text{size}(Z)$

5 **def** $\mu(t, \mathcal{X})$:

6 **if** $\text{len}(\mathcal{X}) > 1$ **then**

7 **while** $\text{len}(\mathcal{X}) > 1$ **and not** $\rho(\mathcal{X})$ **do**

8 $Z = (start_1, end_1, is_increasing) \leftarrow \mathcal{X}.pop()$

9 $Y = (start_2, end_2, is_increasing) \leftarrow \mathcal{X}.pop()$

10 $merge(t, start_1, end_1 + 1, end_2 + 1)$

11 $\mathcal{X} \leftarrow \mathcal{X} + Y \oplus Z$
