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Algorithm 1: Clustermatch algorithm
 1 Function get_partitions(v, k_{max}):
           Output:
                 \Omega_r: clustering with r clusters over n objects
           if \mathbf{v} \in \mathbb{R}^n then
 2
                 for r \leftarrow 2 to \min\{k_{\max}, |\mathbf{v}| - 1\} do
  3
                 \rho \leftarrow (\rho_{\ell} \mid \Pr(v_i < \rho_{\ell}) \le (\ell - 1)/r), \forall \ell \in [1, r + 1]
\Omega_{r\ell} \leftarrow \{i \mid \rho_{\ell} < v_i \le \rho_{\ell+1}\}, \forall \ell \in [1, r]
  5
           else
 6
                 // TODO: not implemented yet in optimized version
                 \mathcal{C} \leftarrow \cup_i \{v_i\}
                \Omega_{rc} \leftarrow \{i \mid v_i = \mathcal{C}_c\}, \forall c \in [1, r]
  9
           // TODO: remove singletons
           return \Omega
10
11
12 Function clustermatch(x, y, k_{\text{max}}):
           Input:
                 \mathbf{x}: feature values on n objects
                 \mathbf{y}: feature values on n objects
                 k_{\text{max}}: maximum number of internal clusters
           Output:
                 c: similarity value for \mathbf{x} and \mathbf{y} (c \in [0, 1])
           \Omega^{\mathbf{x}} = \text{get\_partitions}(\mathbf{x}, k_{\text{max}})
13
           \Omega^{\mathbf{y}} = \text{get\_partitions}(\mathbf{y}, k_{\text{max}})
14
           c \leftarrow \max\{\mathcal{A}(\Omega_n^{\mathbf{x}}, \Omega_q^{\mathbf{y}})\}, \forall p, q
15
           return c
16
```