

# Connected tree

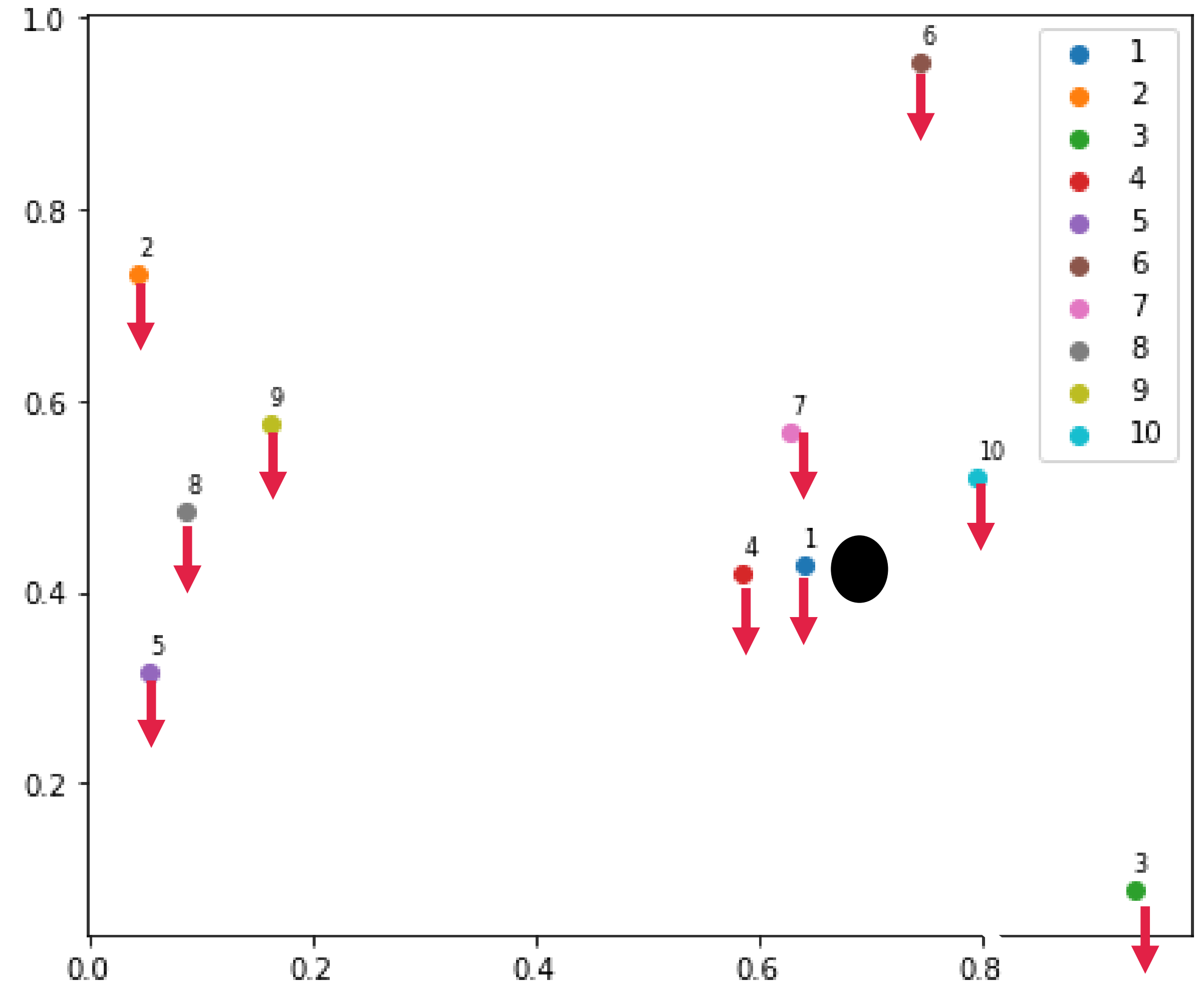
Solve the following optimization problem

Find the spanning tree

$$\min \sum_{i,j} U_{i,j} D_{i,j}$$

$$\forall i \quad G_i - L_i = \sum_j flow_{i,j}$$

$$flow_{i,j} \leq U_{i,j} M$$



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