Maxcut



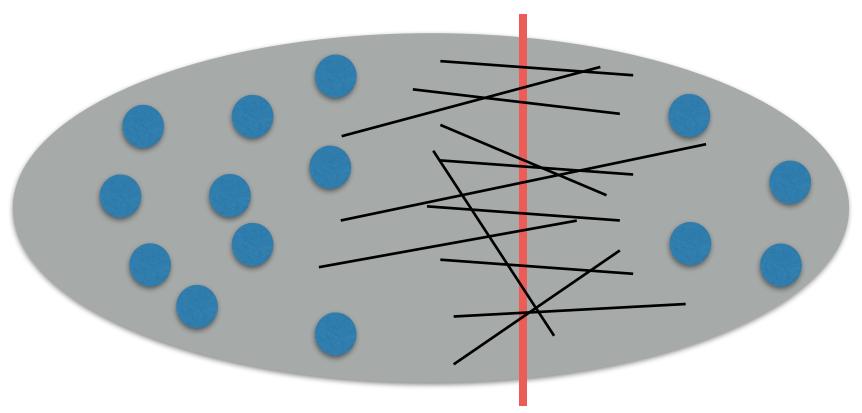
The Maxcut problem

Given:

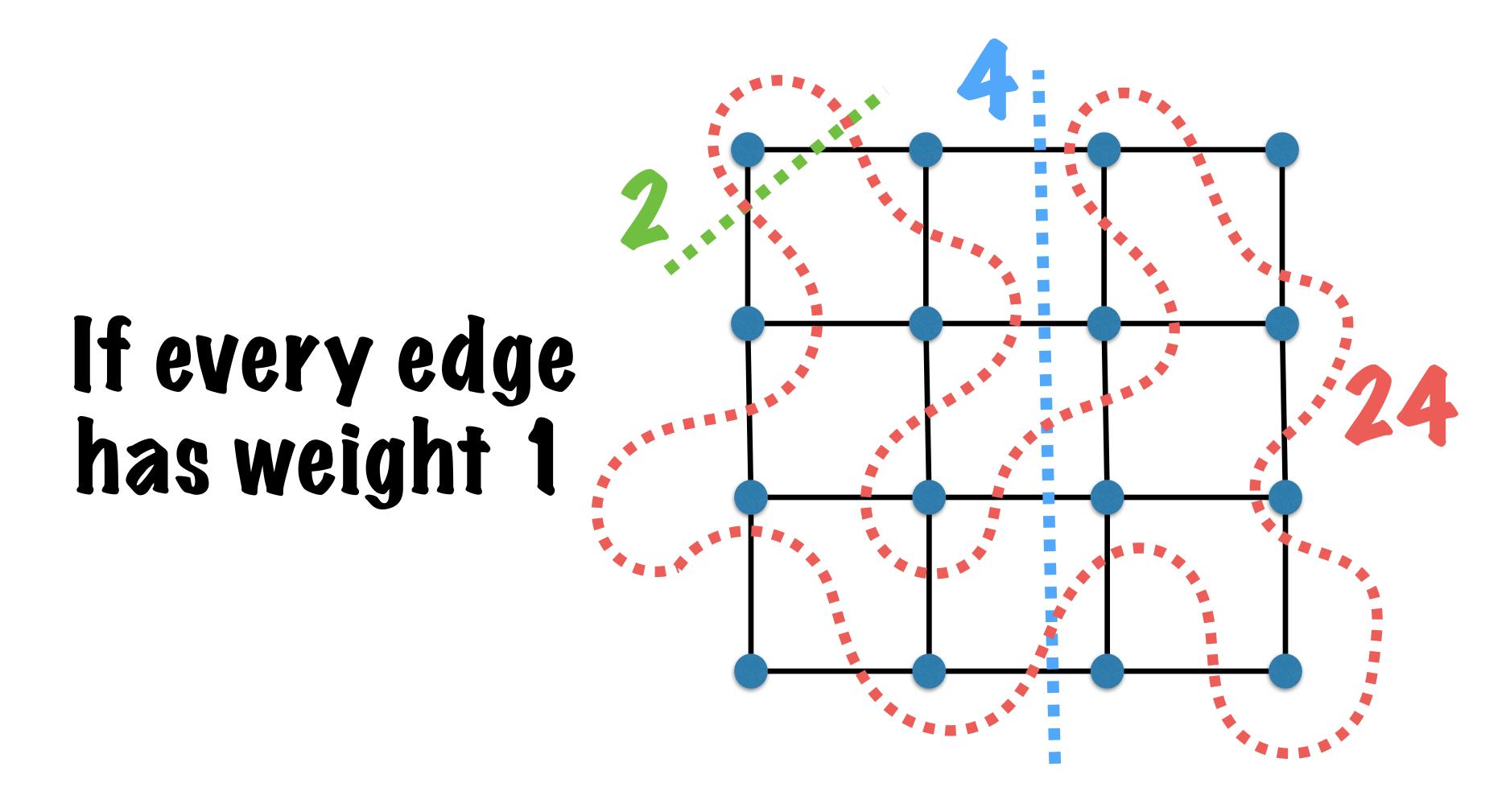
a graph with non-negative edge weights Find:

a partition of the vertices into two sets that maximizes:

the weight of edges across the resulting cut



Example



Maxcut

Given: a graph with non-negative edge weights Find: a partition of the vertices into two sets that maximizes: the weight of edges across the resulting cut

- Does not have to separate a particular pair (s,t)

- Does not have to be balanced

Maxcut Given: graph, non-negative edge weights and two vertices s and t Find: partition of vertices into two sets, separating s from t Minimizing Maximizing

weight of edges across the resulting cut

NP-hard

Polynomial

Maxcut

