A Generalization of Edgesum Problem

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Let S be a set with m elements. A 1-1 mapping $g : S \to \{0,1, \dots, m-1\}$ is called a numbering of S. Suppose f is a function from $S \times S$ onto $\{0,1\}$ such that $f(x,x) = 0, \ \forall x \in S$ and $f(x,y) = f(y,x), \forall\ (x,y) \in S \times S$. In this talk we discuss a way to minimize $\sum_{i<j} f(x_i, x_j)\left|g(x_i) - g(x_j)\right|$ where the minimum is over all numbering g of S.