Problem Solving and Search in AI
Tutorial 4 (on 5th December WS 19/20)

Sarah Gaggl, Lukas Schweizer

Exercise 1.2 (old exam question):
Given a graph $G = (V, E)$, a matching is a set of edges $M \subseteq E$, such that every node is the endpoint of exactly one edge. Write an ASP program that computes matchings for arbitrary graphs.

Exercise 1.3 (Subsetsum problem):
Given a set (or multiset) of integers, is there a non-empty subset whose sum is zero? For example, given the set $\{-7, -3, -2, 5, 8\}$, the answer is yes because the subset $\{-3, -2, 5\}$ sums to zero. Write an ASP program that computes all subsets with total sum zero.