- 1. Consider an anonymous routing/congestion game that is parameterized as follows:
 - A finite set of resources \mathcal{R} .
 - A congestion function for each resource r of the form $c_r : \{0, 1, 2, ...\} \to R$. The cost $c_r(k)$ is the congestion on resource/road r when there are k users. In this formulation, congestion on a particular resource/road only depends on the number of users on that road not which specific users, i.e., users are anonymous.
 - A finite set of players $N = \{1, 2, ..., n\}$.
 - A finite action set of each player $A_i \subseteq 2^{\mathcal{R}}$: An action $a_i \in A_i$ is just a collection of resources, i.e., $a_i \subseteq \mathcal{R}$. Let $A := A_1 \times ... \times A_n$ represent the set of joint actions.
 - A cost function for each player i of the form $J_i: \mathcal{A} \to R$ that each player seeks to minimize. The specific form of the cost function is

$$J_i(a_i, a_{-i})$$