# System Model:

User Inputs:

* total budget B in $ or ￥
* risk level

System Model:

* Budget B
* Single bet bound SB (every bet should be less than $SB)
* Risk level r
* Number of games n
* Number of bookmaker m
* Variables Xijk, i is the ith game, j is the jth bookmaker, k is the game result. Xijk means how much to bet on which result on what game with what bookmaker.
* Parameters bijk, is the odds of the game i with result k from bookmaker j.
* Parameter Pik, is the probability of the game i having result k.
* Constraints:
* Objective function:
  + Maximize