

## **Golf Problem Solver**

Goal of this project is to implement constrain satisfaction model for general case of Social Golfer Problem. The model is implemented in SIC-  
Stus Prolog using its CSP over Finite Domains library.

# **1 Problem Definition**

Twenty golfers wish to play in foursomes for 5 days. Is it possible for each golfer to play no more than once with any other golfer? The answer is yes, and the following table gives a solution. Event organizers for bowling, golf, bridge, or tennis frequently tackle problems of this sort, unaware of the problem complexity. In general, it is an unsolved problem. A table of known results is maintained by Harvey.

# **2 Solution**

## **2.1 CSP Model**

### **2.1.1 Variables**

### **2.1.2 Domain**

### **2.1.3 Constrains**

Variables

Variables

## **2.2**

# **3 Test**

# **4 Conclusion**