（这部分是动态规划的简介）

Dynamic programming is both a mathematical optimization method and a computer programming method. The method was developed by Richard Bellman in the 1950s and has found applications in numerous fields, from aerospace engineering to economics. In both contexts it refers to simplifying a complicated problem by breaking it down into simpler sub-problems in a recursive manner.

在本问题中，卷积神经网络输出层输出的策略对解决问题有决定性作用，如果只用贪心算法取得能力较强的球员，可能因只局限于局部最优解，而忽略掉全局最优解。利用动态规划和深度优先搜索相结合的方法对球员进行筛选，可确保取得全局最优解。

动态规划算法所使用的状态转移方程为

其中满足：

缺点是对计算机性能和计算力要求比较高，时间复杂度随数据量的增多为指数级增长。