作业要求

```
Initialize each person to be free.
while (some man is free and hasn't proposed to every woman) {
    Choose such a man m
    w = 1st woman on m's list to whom m has not yet proposed
    if (w is free)
        assign m and w to be engaged
    else if (w prefers m to her fiancé m')
        assign m and w to be engaged, and m' to be free
    else
        w rejects m
}
```

1、根据配对问题，自由构造相关数据；实现上述配对算法（Gale-Shapley），得出运行结果。

2、提交报告一份。需包含以下内容：核心源代码、构造的数据、运行结果。

3、编程语言不限。