video tutorial：

[14-5: 稳定婚配问题 Stable Marriage Problem\_哔哩哔哩\_bilibili](https://www.bilibili.com/video/BV1V44y167n3/?spm_id_from=333.788&vd_source=79e074aaa7c81905bda86f677ba122fc)

[14-6: Gale-Shapley 算法 寻找稳定婚配\_哔哩哔哩\_bilibili](https://www.bilibili.com/video/BV1uq4y177Hc/?spm_id_from=333.788&vd_source=79e074aaa7c81905bda86f677ba122fc)

Stable Marriage Algorithm Summary:

1. Take the initiative to get the best for yourself (one partner in the stable marriage algorithm has to propose to their favourite person)

2. good horses don't come back (you can't propose again after a failed proposal or after being cuckolded)

3. you will be cuckolded if someone with a higher forward sequence than you proposes to your mate (you will become single again if the new suitor has a higher sequence than yours)

4. loss is not scary, move forward again (after being cuckolded you have to propose to the next person in your favourite sequence)

Notebook：





