

The background features a detailed anime-style illustration of a young woman with long, flowing purple hair and large, expressive brown eyes. She is wearing a dark blue winter jacket with a white scarf wrapped around her neck. Her hands are clasped together near her chin, and she has a gentle, slightly shy expression. The setting is a snowy winter scene. To the left, there are bare tree branches with small red berries, possibly holly. A large, red and white striped umbrella is partially visible behind her. The overall atmosphere is soft and cozy, with falling snowflakes and a warm light source from the right side of the frame.

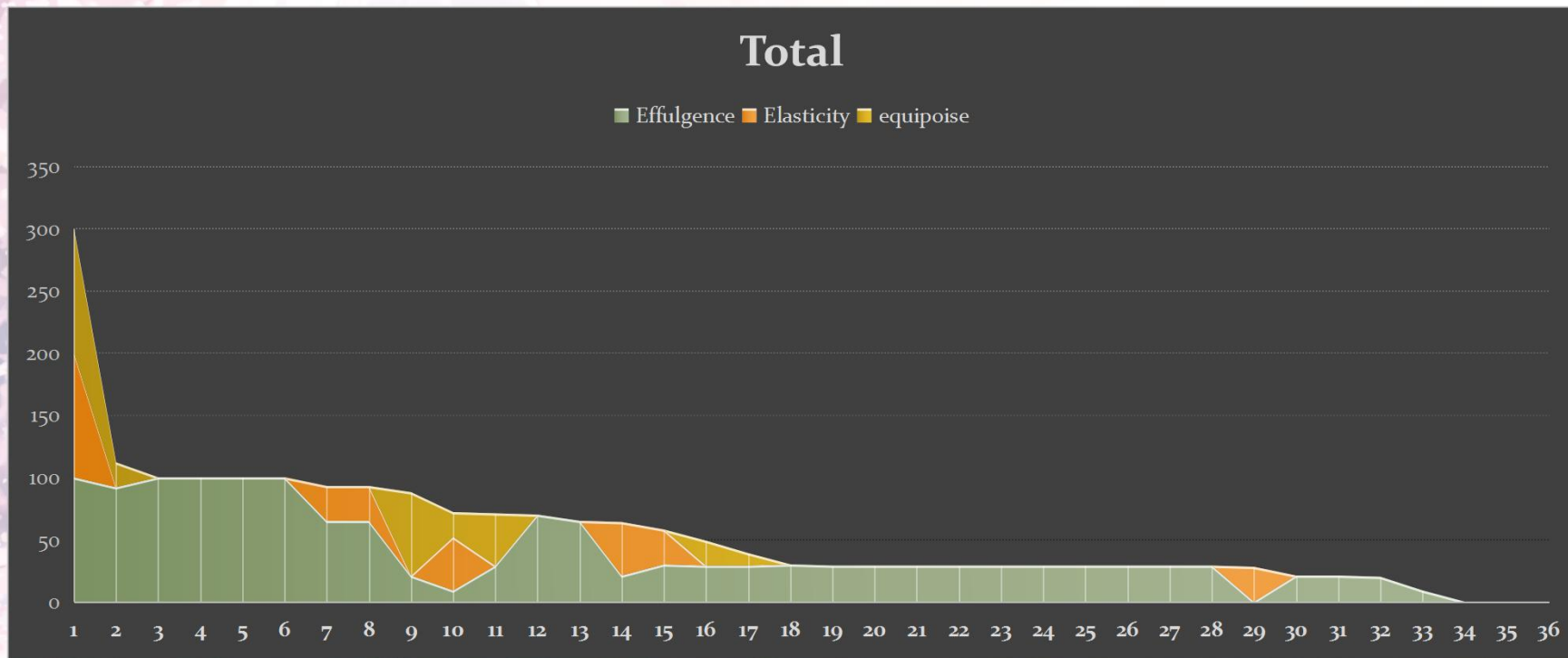
# NOI2018 模拟 E

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## Solution 7.6

MIT 罗哲正

# 得分统计



An anime-style illustration of a young girl with long, straight, light purple hair and bangs. She has her eyes closed and a gentle smile. She is wearing a light pink kimono with a dark pink obi tied in a bow at her waist. A large, light pink flower is pinned to her obi. The background is a soft-focus field of pink cherry blossoms under a warm, hazy sky. The overall mood is peaceful and romantic.

# Effulgence

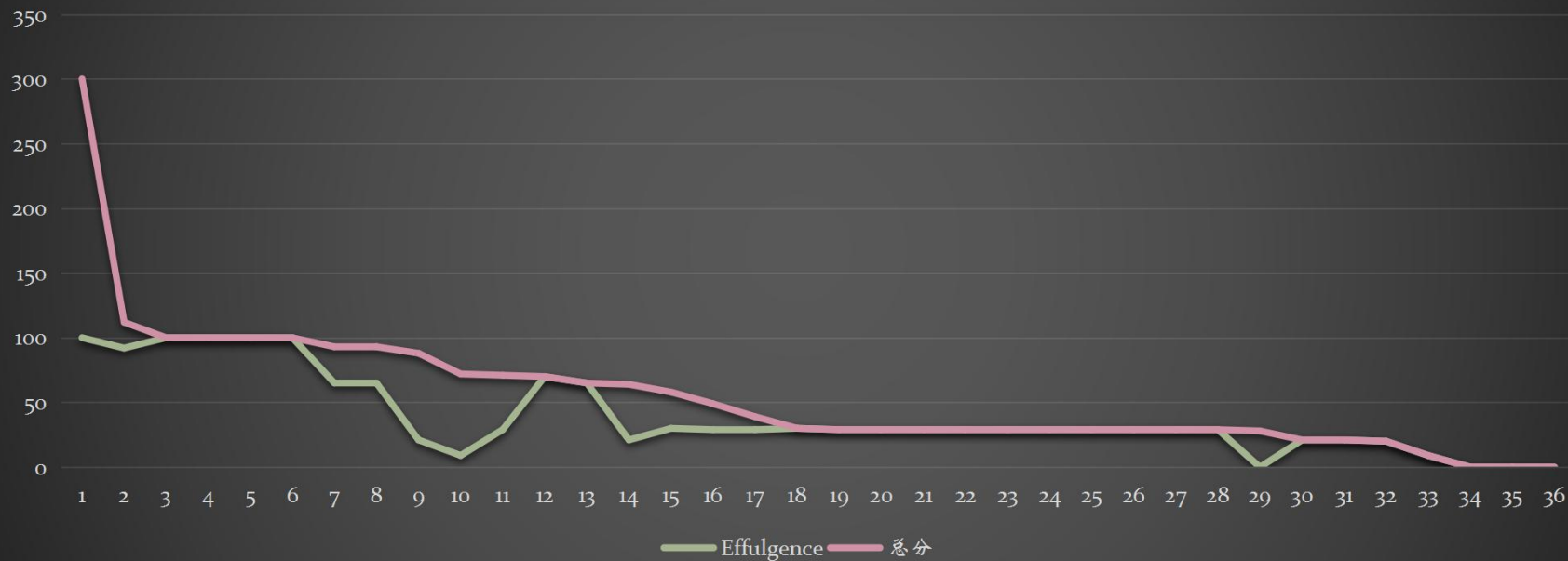
炫耀

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# 得分统计

Effulgence



# Effulgence

- 思想?
- 折半
- 考虑询问其中一个集合中的点.....
- 什么情况下可以无差别的删掉所有相邻/不相邻的点
- 同构图的处理一般可以在度数上做文章
- 对度数是否过半进行分类
- 如果没有合法的点怎么办?



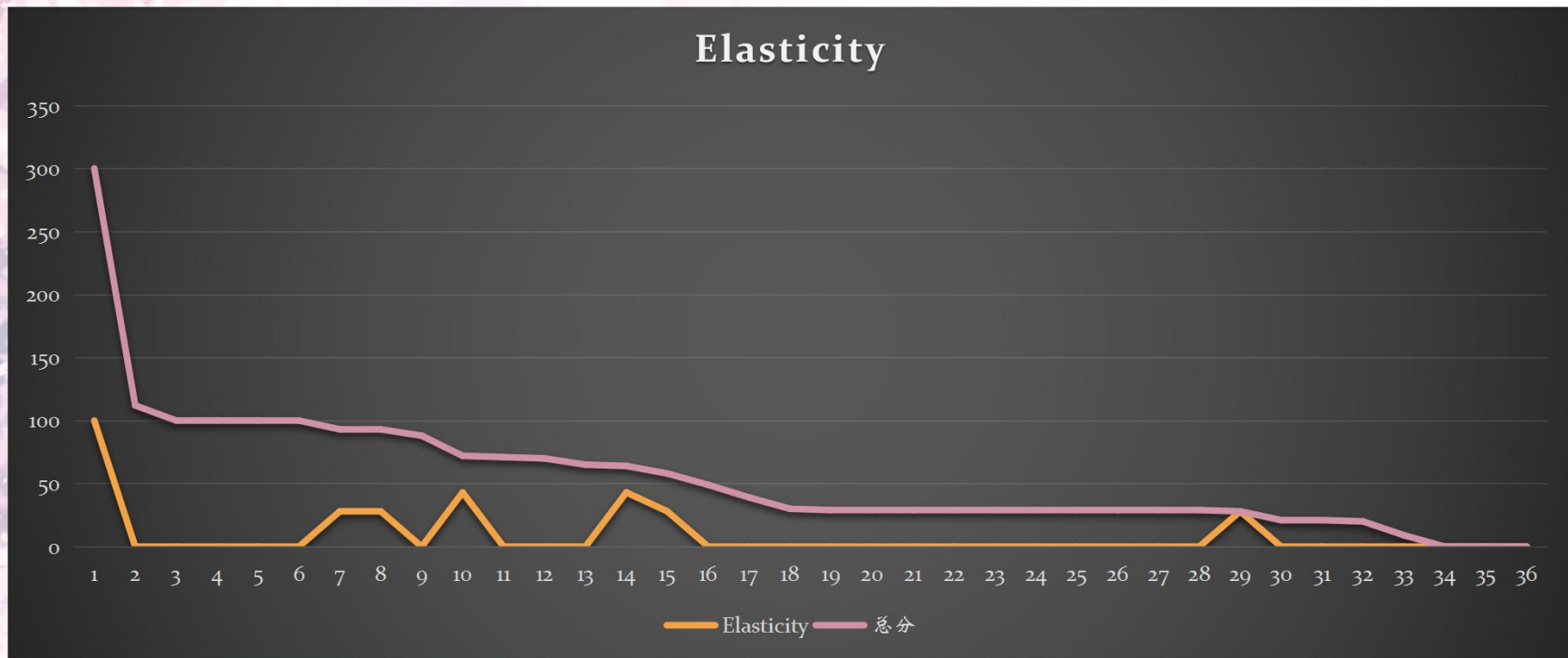
# Elasticity

弾性

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# 得分统计

Elasticity





# Elasticity

- 一条链上怎么做（忽略边界）
- 如何整理出一段非负的子段
- 可以发现操作是交换前缀和，那么就是冒泡排序

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# Elasticity

- 如何推广到环上
- 没有固定起点?
- 变化中找不变量
- 总和?

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# Elasticity

- 如何利用总和 $m$ 做文章？
- 从某个位置断开后一定要整理为从0到 $m$ 的升序序列。
- $s_n = m$ 是不会变的，把前缀和看成元素，要提升元素可以利用0与 $m$ 的差。

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# Elasticity

- 把元素从左边推出，可以从右边得到一个升高了 $m$ 的元素。
- 按模 $m$ 划分
- 推完后还要重新整理

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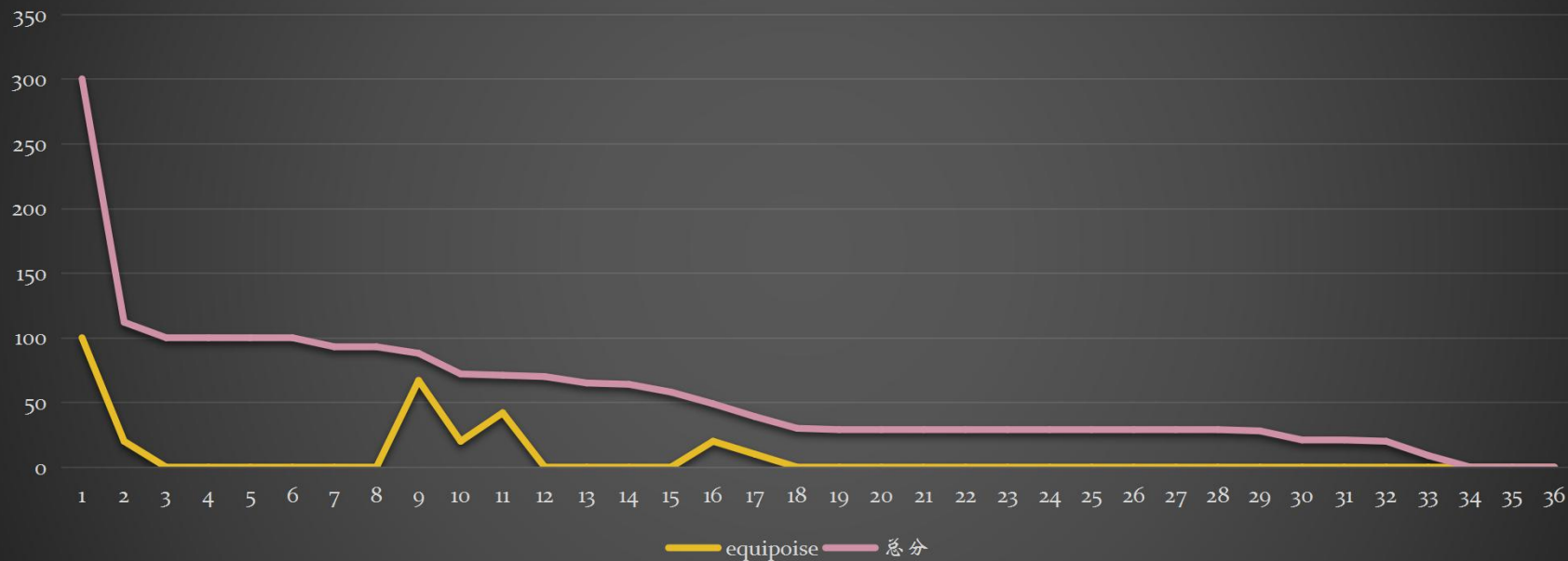
# Equipoise

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均衡

# 得分统计

Equipoise



# Equipoise

- $D_k = D_1^k$
- 只要每次除以 $D_1$ 即可
- 如何把图拆成 $G \times D_1$
- 观察一下 $G \times D_1$ 的样式？

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# Equipoise

- 两张同构的图和对对应点之间建成的边。
- 如果知道一条 corresponding edge 如何还原出剩下的对应关系？
- 同构变化中哪些是不变的？
- 度数？最短路？
- 可以用bfs分层每层找对应关系。
- 其实也可以dfs边搜边确定对应关系。

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# Equipoise

- 找一次是线性的。
- 如何找到一对对应点？
- 枚举就好啦！
- 找度数最小的点，度数不会超过 $\sqrt{m}$ 。

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# Thanks!

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July 6, 2018