

## 标签 AHOI 下的文章

🏠 首页 (<https://blog.orzsiyuan.com/>) / AHOI

「AHOI / HNOI 2017」礼物 (<https://blog.orzsiyuan.com/archives/AHOI-HNOI-2017-Gifts/>)

题目链接: LOJ 2020 (<https://loj.ac/problem/2020>)

我的室友最近喜欢上了一个可爱的小女生。马上就要到她的生日了，他决定买一对情侣手环，一个留给自己，一个送给她。每个手环上各有  $n$  个装饰物，并且每个装饰物都有一定的亮度。

但是在他生日的前一天，我的室友突然发现他好像拿错了一个手环，而且已经没时间去更换它了！他只能使用一种特殊的方法，将其中一个手环中所有装饰物的亮度增加一个相同的整数  $c$ （可能是负数）。并且由于这个手环是一个圆，可以以任意的角度旋转它，但是由于上面装饰物的方向是固定的，所以手环不能翻转。需要在经过亮度改造和旋转之后，使得两个手环的差异值最小。

在将两个手环旋转且装饰物对齐了之后，从对齐的某个位置开始逆时针方向对装饰物编号  $1, 2, \dots, n$ ，其中  $n$  为每个手环的装饰物个数，第一个手环的  $i$  号位置装饰物亮度为  $x_i$ ，第二个手环的  $i$  号位置装饰物亮度为  $y_i$ ，两个手环之间的差异值为：

$$n \sum_{i=1}^n (x_i - y_i)^2$$

麻烦你帮他计算一下，进行调整（亮度改造和旋转），使得两个手环之间的差异值最小，这个最小值是多少呢？

数据范围：  $1 \leq n \leq 5 \times 10^4$ ，  $1 \leq a_i \leq m \leq 100$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) © 2019 年 07 月 31 日

「AHOI 2014」支线剧情 (<https://blog.orzsiyuan.com/archives/AHOI-2014-Branch-Line-Plot/>)

题目链接: LOJ 2226 (<https://loj.ac/problem/2226>)

宅男 JYY 非常喜欢玩 RPG 游戏，比如仙剑，轩辕剑等等。不过 JYY 喜欢的并不是战斗场景，而是类似电视剧一般的充满恩怨情仇的剧情。这些游戏往往都有很多的支线剧情，现在 JYY 想花费最少的时间看完所有的支线剧情。


JYY 现在所玩的 RPG 游戏中，一共有  $n$  个剧情点，由 1 到  $n$  编号，第  $i$  个剧情点可以根据 JYY 的不同的选择，而经过不同的支线剧情，前往  $K_i$  种不同的新的剧情点。当然  $K_i$  如果为 0，则说明  $i$  号剧情点是游戏的一个结局了。


JYY 观看一个支线剧情需要一定的时间。JYY 一开始处在 1 号剧情点，也就是游戏的开始。显然任何一个剧情点都是从 1 号剧情点可达的。此外，随着游戏的进行，剧情是不可逆的。所以游戏保证从任意剧情点出发，都不能再回到这个剧情点。

由于 JYY 过度使用修改器，导致游戏的「存档」和「读档」功能损坏了，所以 JYY 要想回到之前的剧情点，唯一的方法就是退出当前游戏，并开始新的游戏，也就是回到 1 号剧情点。JYY 可以在任何时刻退出游戏并重新开始。

不断开始新的游戏重复观看已经看过的剧情很是痛苦，JYY 希望花费最少的时间，看完所有不同的支线剧情。

数据范围： $1 \leq n \leq 300$ ， $0 \leq K_i \leq 50$ ， $\sum_{i=1}^n K_i \leq 5000$ 。

 Siyuan (<https://blog.orzsiyuan.com/author/1/>)


 2019 年 04 月 02 日



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### 博客信息

 文章数目

187

评论数目	243
运行天数	1年25天
最后活动	4 个月前

## 标签云

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