标签 BJOI 下的文章

「BJOI 2014」大融合 (https://blog.orzsiyuan.com/archives/BJOI-2014-Fusion/)

> 题目链接：LOJ 2230 (https://loj.ac/problem/2230)

小强要在 n 个孤立的星球上建立起一套通信系统。这套通信系统就是连接 n 个点的一个树。这个树的边是一条一条添加上去的。在某个时刻，一条边的负载就是它所在的当前能够联通的树上路过它的简单路径的数量。

现在，你的任务就是随着边的添加，动态的回答小强对于某些边的负载的询问。

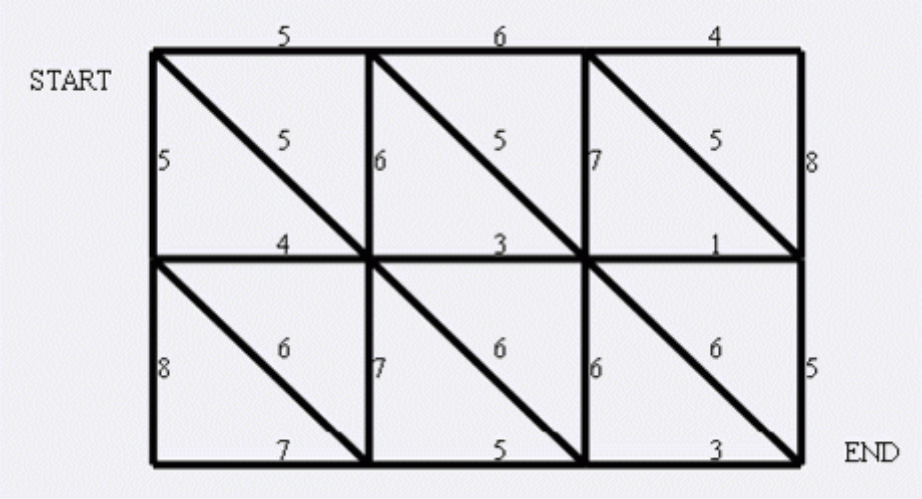
数据范围：$1 \leq n, q \leq 10^5$。

Siyuan (https://blog.orzsiyuan.com/author/1/) 2019 年 03 月 08 日

「BJOI 2006」狼抓兔子 (https://blog.orzsiyuan.com/archives/BJOI-2006-Wolves-Catch-Rabbits/)

> 题目链接：BZOJ 1001 (https://www.lydsy.com/JudgeOnline/problem.php?id=1001)

现在小朋友们最喜欢的"喜羊羊与灰太狼"，话说灰太狼抓羊不到，但抓兔子还是比较在行的，而且现在的兔子还比较笨，它们只有两个窝，现在你做为狼王，面对下面这样一个网格的地形：



左上角点为 $(1, 1)$，右下角点为 (n, m)（上图中 $n = 3, m = 4$）。有以下三种类型的道路：

1. $(x, y) \longrightarrow (x+1, y)$
2. $(x, y) \longrightarrow (x, y+1)$
3. $(x, y) \longrightarrow (x+1, y+1)$

道路上的权值表示这条路上最多能够通过的兔子数，道路是无向的。左上角和右下角为兔子的两个窝，开始时所有的兔子都聚集在左上角 $(1, 1)$ 的窝里，现在它们要跑到右下角 (n, m) 的窝中去，狼王开始伏击这些兔子.当然为了保险起见，如果一条道路上最多通过的兔子数为 k，狼王需要安排同样数量的 k 只狼，才能完全封锁这条道路，你需要帮助狼王安排一个伏击方案，使得在将兔子一网打尽的前提下，参与的狼的数量要最小。

数据范围：$1 \leq n, m \leq 1000$。

Siyuan (https://blog.orzsiyuan.com/author/1/) 2018 年 12 月 15 日

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