Problem F - No challenge No life

Stephnie Dola is assistant of Sora. She is a hard-working girl, but she is usually bullied by Sora because of her stupid opinion on work. When she feel sad, she will find solutions of UVa problems written by other people from the Internet and challenge these solutions. She thinks the action can make her fell more comfortable.

Today she found following blog:

http://www.cnblogs.com/yours1103/p/3426212.html

She thinks the code of UVa12647 in this blog is wrong and she challenged it succeffully. Cound you do the same thing as Stephnie Dola do?

Note that you can find the problem statement of UVa12647 from here:

http://uva.onlinejudge.org/external/126/p12647.pdf

Input

This problem has no input file.

Output

Please output a valid input containing only one test case with $N \leq 1000$ for UVa12647.

Sample Output

Following is a valid output for UVa12647. But it cannot challenge the code from above blog successfully.

```
4 4
0 1 3 3
1 5 6 5
5 3 2 4
7 4 10 2
2
5
8
6
```

After Story

Stephnie Dola wanted to prove she not only can challenge code of others but also write a correct solution. So she also wrote a solution as the link: https://gist.github.com/dreamoon4/11bc833e01937bcb3088 . But her code still was challenged by Sora . . .