

Problem 1

Test Case 1

3

0 0 703

166 839 0

0 658 0

4

0 0 216 0

0 0 0 269

753 0 325 716

0 719 0 131

2

1 0

0 0

4

0 0 0 1

1 0 0 0

0 0 1 0

0 1 0 0

4

7 27 11 0

27 3 14 9

11 14 17 0

19 9 20 11

6

0 14 14 3 6 13

0 0 0 0 0 2

0 0 0 2 5 11

0 0 0 0 13 1

2 7 12 4 1 0

0 0 10 7 9 12

10

1 0 0 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 0 0

0 0 1 0 0 0 0 0 0 0

0 0 0 1 0 0 0 0 0 0

0 0 0 0 1 0 0 0 0 0

0 0 0 0 0 1 0 0 0 0

0 0 0 0 0 0 1 0 0 0

0 0 0 0 0 0 0 1 0 0

0 0 0 0 0 0 0 0 1 0

0 0 0 0 0 0 0 0 0 1

15

1 0 0 0 0 0 0 0 0 0 0 0 0 0 0

1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
1 1 1 1 0 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1 1 0 0 0 0 0 0 0
1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
1 1 1 1 1 1 1 1 1 1 0 0 0 0 0
1 1 1 1 1 1 1 1 1 1 1 0 0 0 0
1 1 1 1 1 1 1 1 1 1 1 1 0 0 0
1 1 1 1 1 1 1 1 1 1 1 1 1 0 0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

7

1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1
1 1 1 1 1 1 1

17

0 0 0 130 681 600 543 633 844 973 440 92 509 348 412 494 213
0 0 0 0 0 152 218 161 217 473 621 342 106 674 364 248 946
0 0 0 0 0 0 0 56 405 784 639 625 988 547 885 15 144
0 0 0 0 0 0 0 0 0 590 60 98 427 937 905 455 557
0 0 0 0 0 0 0 0 0 0 0 0 0 0 127 251 255 992
0 0 0 0 0 0 0 0 0 0 0 0 0 0 944 361 93
981 834 628 563 450 153 813 138 17 136 807 439 45 943 309 292 811
0 29 701 464 400 977 4 806 805 415 842 695 997 242 619 541 394
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 486
0 0 0 0 0 0 0 0 67 210 547 21 310 377 269 287 966
0 0 0 0 949 105 286 603 657 394 330 816 699 128 576 314 325
0 0 257 678 554 150 322 49 745 745 191 654 257 117 981 126 52
0 0 0 0 0 0 0 0 0 0 0 0 907 783 229 862 174
0 0 0 0 0 0 0 0 0 0 0 639 768 748 971 900 185
0 0 0 0 0 0 0 0 0 0 0 0 0 0 935 663
0 0 0 0 0 0 213 383 91 344 174 5 499 513 835 496 63
0 0 0 0 0 0 0 0 0 734 578 673 678 207 76 956

1

1

1

0

5

0 0 0 0 0

0 0 0 0 0

```
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
5
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
1 1 0 0 0
19
0 0 29 6 29 7 27 23 6 18 28 14 10 28 5 20 0 13 14
0 0 0 18 4 22 13 19 14 3 1 24 19 17 0 15 27 1 22
0 0 0 0 0 0 19 28 10 1 12 9 9 21 9 26 29 10 5
0 0 0 0 0 0 0 0 0 0 0 0 0 6 2 0 0 29 10
0 0 0 0 0 0 0 0 0 0 0 0 0 0 26 29 5 20 20
0 0 0 0 0 0 0 0 0 0 0 0 0 0 26 11 2 16
0 0 0 0 0 0 0 27 24 12 8 15 4 27 25 15 17 27 6
29 1 3 0 13 23 9 16 15 24 25 16 28 18 12 13 2 14 14
0 8 24 21 15 28 10 27 30 25 4 21 4 18 18 20 0 4 24
0 0 0 0 0 0 0 0 18 5 19 29 27 27 18 12 3 3 15
0 0 0 0 0 0 0 0 0 26 2 18 26 3 21 22 30 16 28
0 0 0 0 0 0 0 0 0 0 0 0 26 10 15 11 17 19 29
0 0 0 0 21 9 10 27 15 18 11 7 30 29 18 13 4 28 17
0 0 0 0 0 24 25 5 14 1 19 18 16 28 27 23 4 22 23
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 15 5 6
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 19 4
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 5
0 0 0 0 0 0 0 0 0 0 7 21 21 25 0 1 18 25 0
0 0 0 0 0 0 0 0 0 0 0 19 7 7 26 4 8 7 26
4
1 0 0 0
0 1 0 0
0 0 0 0
0 0 0 0
4
0 0 0 1
0 1 0 0
0 0 0 0
0 0 0 0
4
0 0 0 0
0 1 0 0
0 0 0 0
0 0 0 1
4
0 0 0 0
0 0 0 0
```

```
0 0 0 0
1 0 0 0
4
0 0 0 0
0 0 0 0
0 0 1 0
0 0 0 0
```

Expected Ouput

```
Not upper triangular
Not upper triangular
upper triangular
Not upper triangular
Not upper triangular
Not upper triangular
upper triangular
Not upper triangular
Not upper triangular
Not upper triangular
upper triangular
upper triangular
upper triangular
Not upper triangular
Not upper triangular
upper triangular
upper triangular
upper triangular
Not upper triangular
upper triangular
```