Queens Revised

Queens have always hated each other. Traditionally when queens were placed on a chessboard a queen gets jealous of another if:

1. They are both in the same row.
2. They are both in the same column.
3. They can see each other diagonally i.e lie in a line inclined 45 degrees or 135 degrees to the base of board.

But now the hatred has increased and the new condition is that **no three of them should lie in any straight line** (***this line need not be aligned 45 degrees or 135 degrees to the base of chess board).***

Scoring and Judging :

The task before you is to place N queens on an N x N chess board so that none of the earlier three conditions and the new condition is violated.
Write a program in a language of your choice to print a "N" followed by a space separated list of column number of queens corresponding to each row.
If the configuration is correct you get a score of N/10. (Please do not submit for N > 1000 and N should be odd).

Sample Example

A valid configuration for N = 11 :

* Q * * * * * * * * *

* * * Q * * * * * * *

* * * * * * Q * * * *

Q * * * * * * * * * *

* * * * * * * Q * * *

* * * * * * * * * * Q

* * * * Q * * * * * *

* * Q * * * * * * * *

* * * * * * * * Q * *

* * * * * Q * * * * *

* * * * * * * * * Q *

for N = 13

Q * * * * * * * * * * * *

* * Q * * * * * * * * * *

* * * * * * * * * * * Q *

* * * * * * * * * Q * * *

* * * * * * Q * * * * * *

* Q * * * * * * * * * * *

* * * * * * * * * Q * *

* * * * Q * * * * * * * *

* * * * * * Q * * * * *

* * * * * * * * * * * Q

* * * * * * * Q * * * *

* * * Q * * * * * * * *

* * * * * Q * * * * * *

So if the output of your program is :

11

2 4 7 1 8 11 5 3 9 6 10

You get a score of 11/10 = 1.1

and for the output :

13

1 3 12 10 7 2 11 5 8 13 9 4 6

you get a score 13/10 = 1.3

A Sample Invalid Configuration

Q * * * * * *

* * Q * * * *

* * * * Q * *

* * * * * * Q

* Q * * * * *

* * * Q * * *

* * * * * Q *

Queens of the first three rows are in a straight line.

So if your program's output is:

7

1 3 5 7 2 4 6

Score is 0.

Try to solve for as large N as possible.

Sample Programs :

C++ :

```
#include
using namespace std;

int main(){
    cout << "11\n" ;
    cout << "2 4 7 1 8 11 5 3 9 6 10" ;
    return 0 ;
}
```

Score = 1.1

Python :

```
print "13"
print "1 3 12 10 7 2 11 5 8 13 9 4 6"
```

Score = 1.3

Note: There is no "Compile and Test" Option. Submit the code directly to get the appropriate score.