Write a program to solve the Tower of Hanoi problem.

The program takes an input, n, which represents the number of discs. There are three poles. It gives an output which tells us the sequence of moves to make .i.e.

```
Move from pole 1 to pole 3
Move from pole 1 to pole 2
Move from pole 3 to pole 2
```

e.t.c.

Hint:

Use recursion to reduce the amount of problem you are working on, until you hit a base case. For example, if you wish to move from pole 1 to pole 3, start with:

```
Moving everything above to pole 2
Moving the last disc to pole 3
Moving the items in pole 2 to pole 3
```

So for the first and third steps, you are working with a problem involving n-1 discs and not n discs.

The base case, if n = 1, simply involves moving the item directly to the destination.

Play Tower of Hanoi online:

https://www.mathsisfun.com/games/towerofhanoi.html