8) suppose you have a stack of pancakes whose diamters in inches go from 1 to n. You wantto arrange the stack so that the bigger pancakes are nearer the bottom. Thus, thinking of the pancakes as integers corresponding to their diameter they should end up as:

1
2
3
.
.
.
n

You are allowed to insert a spatula and flip some set of pancakes at the top of the stack. For example if the order was

5
4
2
1
3

and you inserted the spatula under the pancake of diameter 2 inches, the new stack would be:

2
4
5
1
3

(a) prove that you can get any stack in the desired order using at most 2n flips.

(b) prove that there are stacks which reuire n-1 flips.

(c) can you strengthen eithr of thes ebounds?

and yo