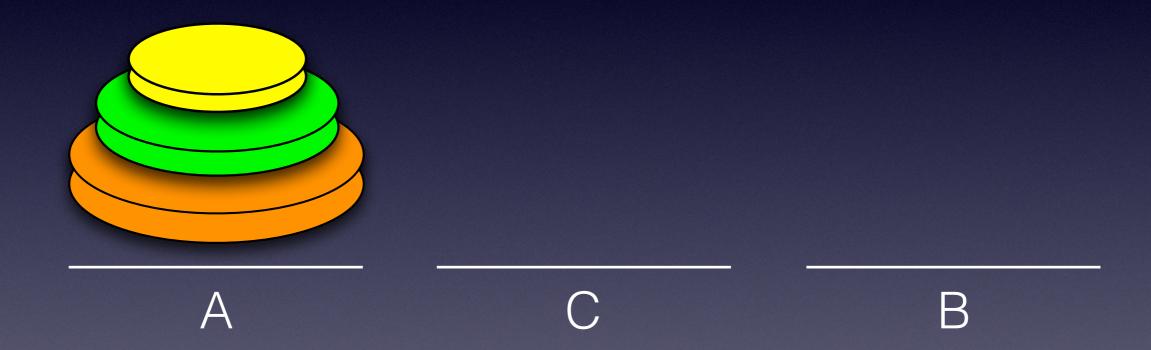
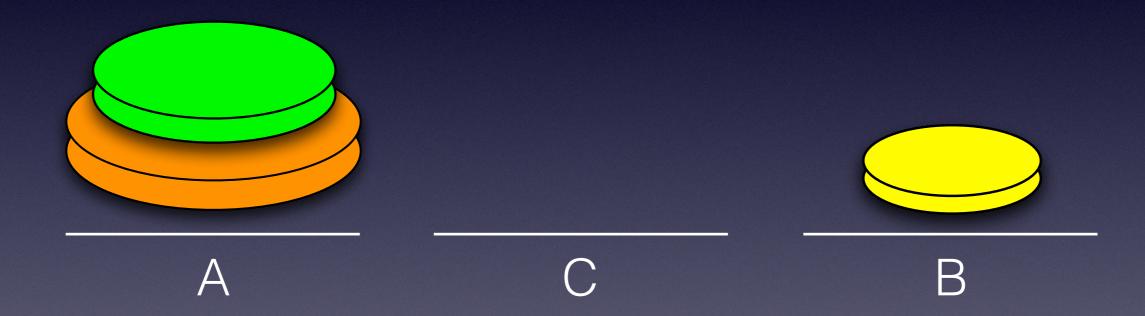
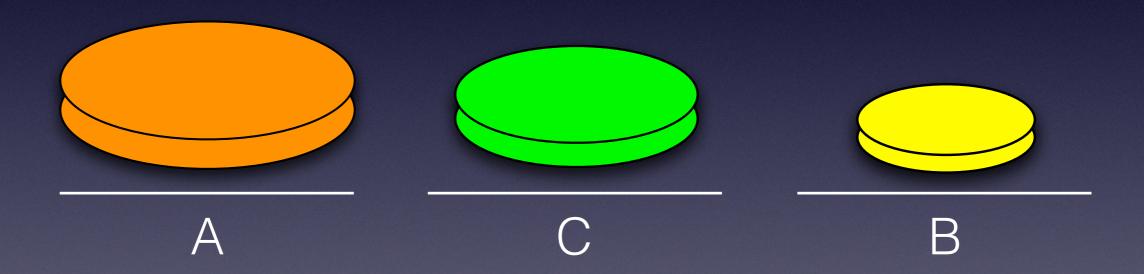
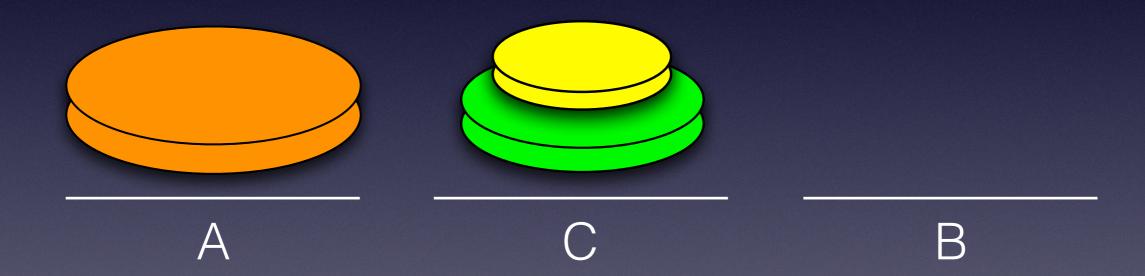
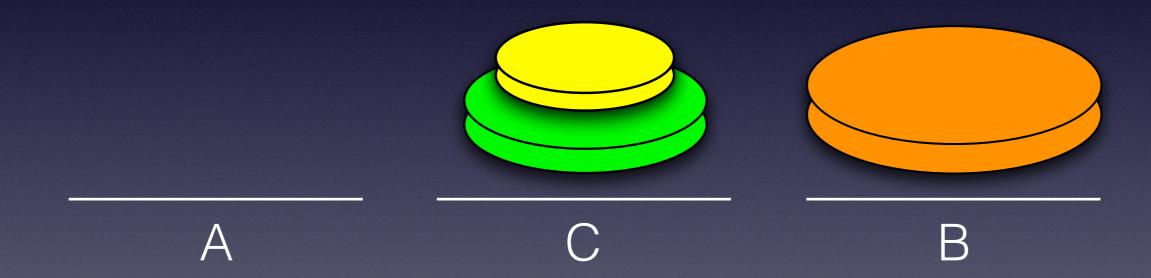
IE.2409 Laboratory Project Magnetic Tower of Hanoi

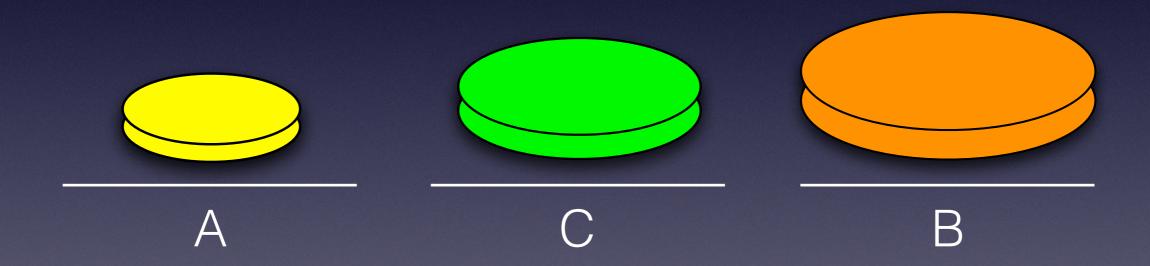


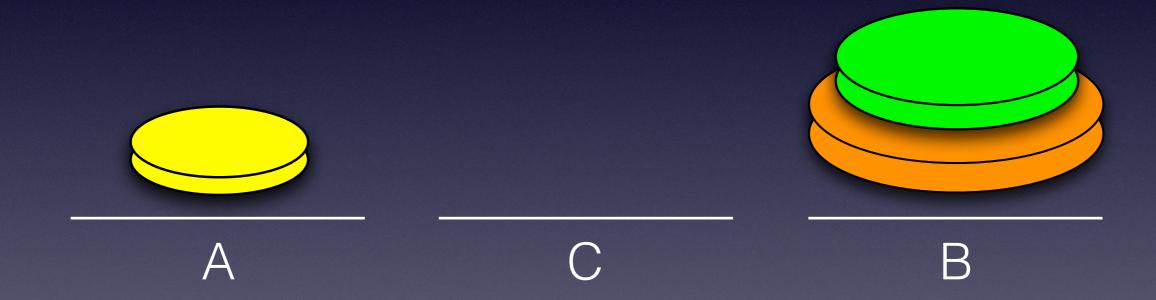


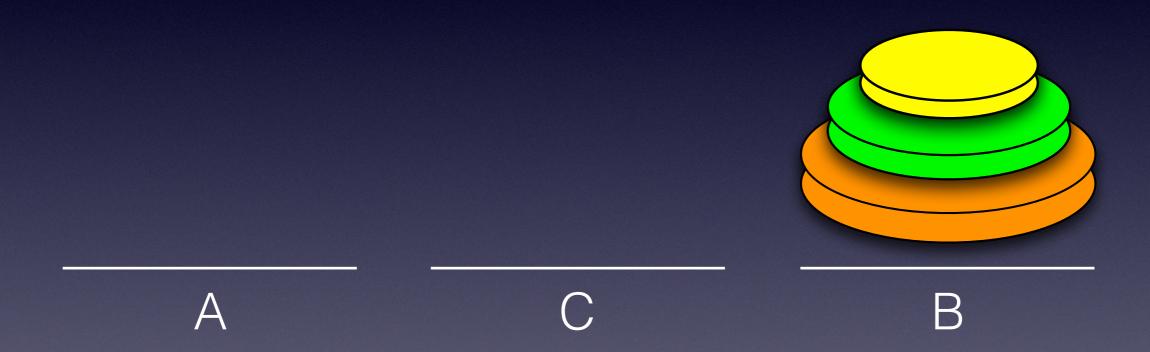










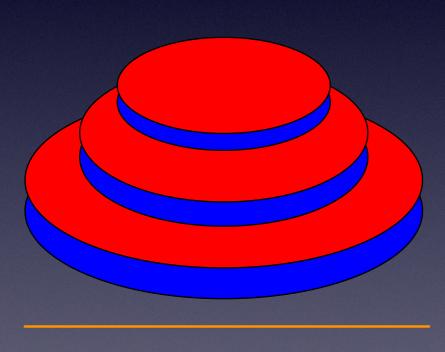


Moves

```
hanoi (n - 1, src, tmp)
move (1, src, dst)
hanoi (n - 1, tmp, dst)
```

of Steps

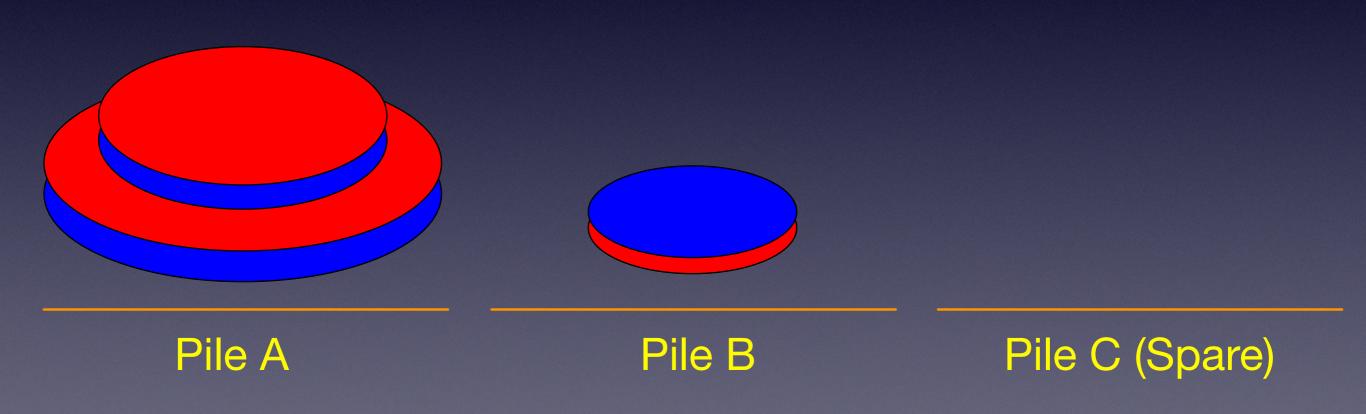
```
hanoi (n) =
2 * hanoi (n-1) + 1 for n > 1
1 for n = 1
```

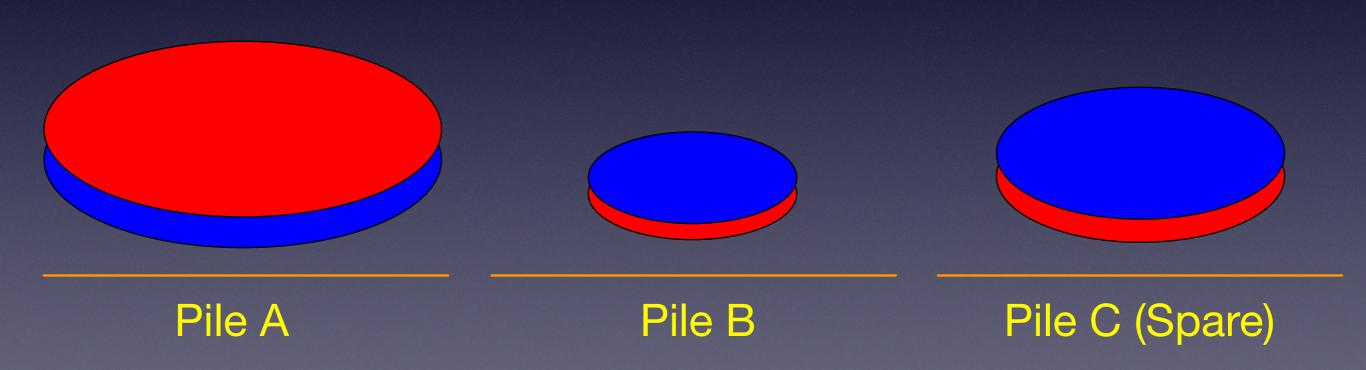


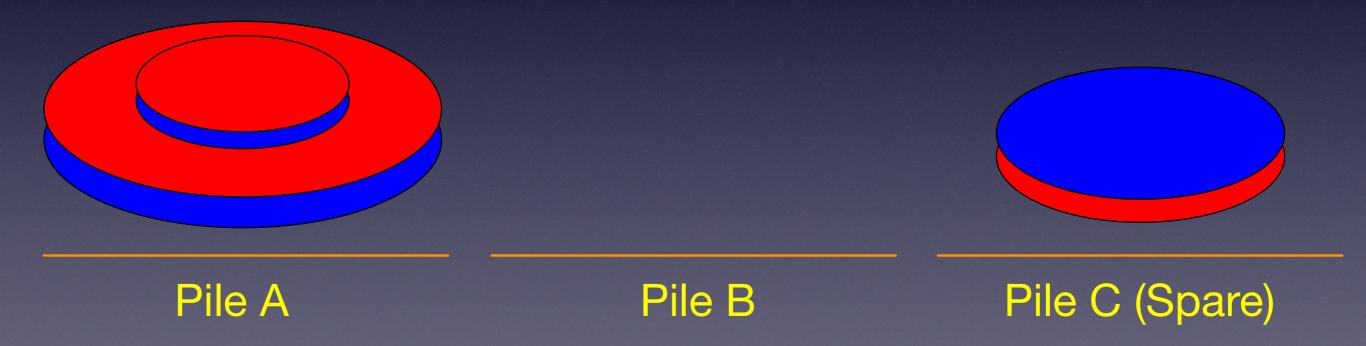
Pile A

Pile B

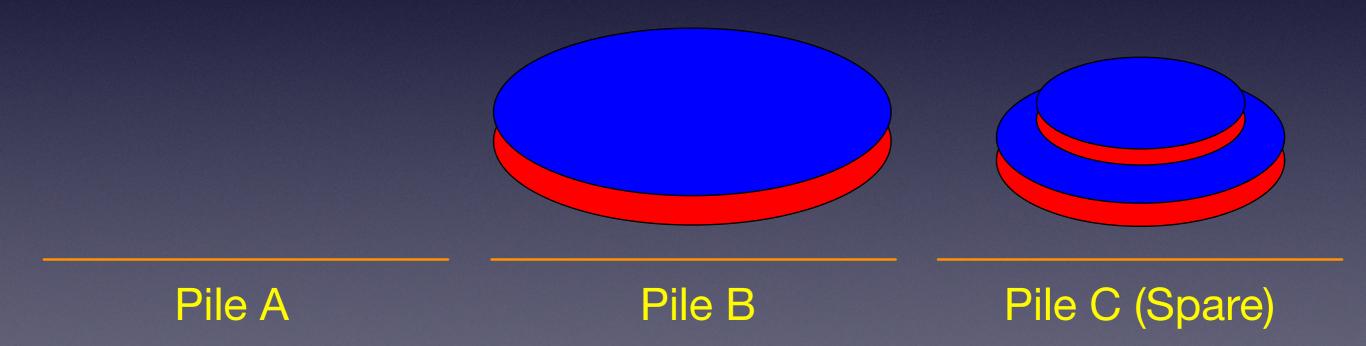
Pile C (Spare)

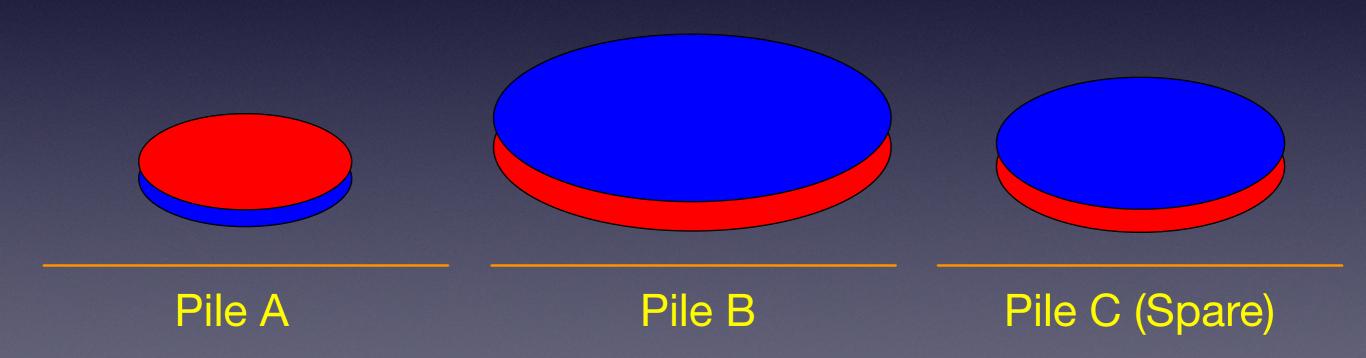


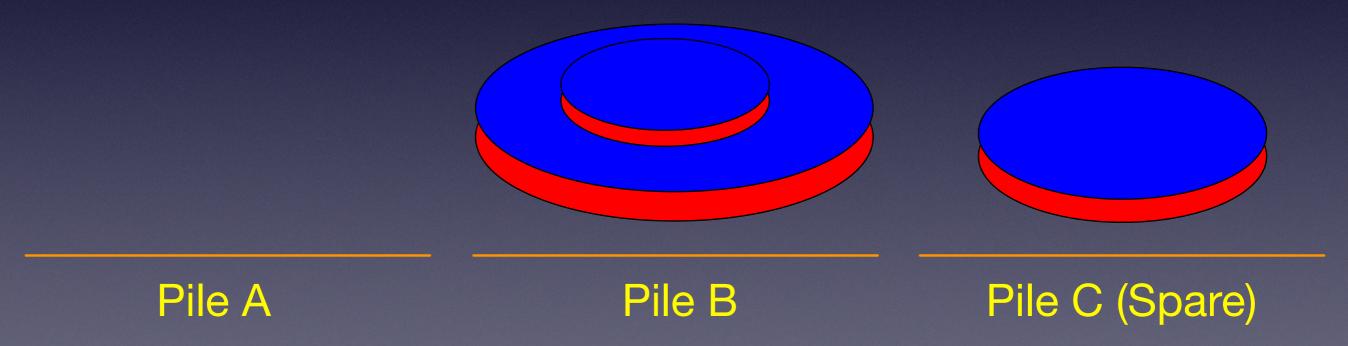


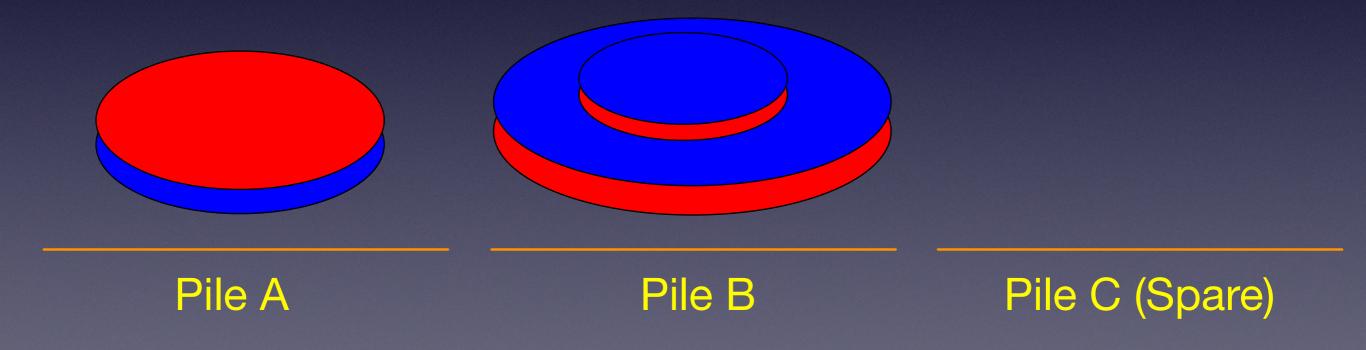


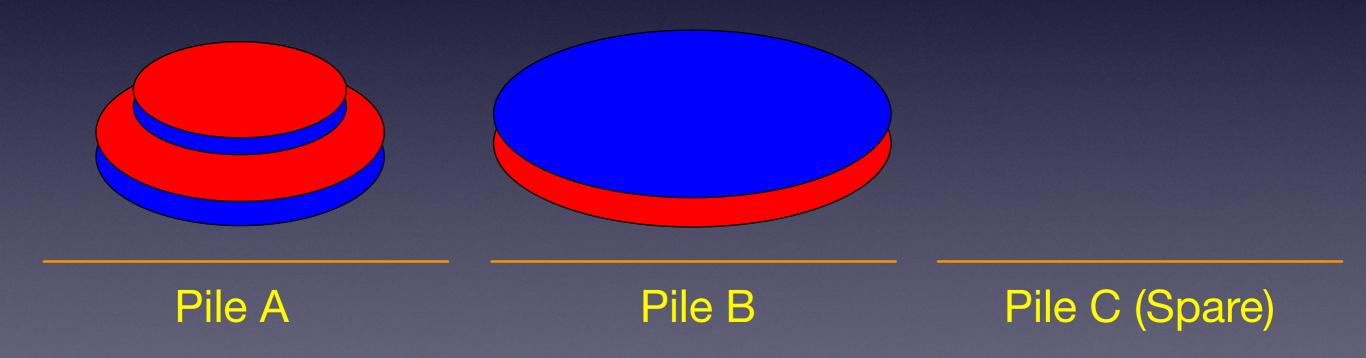


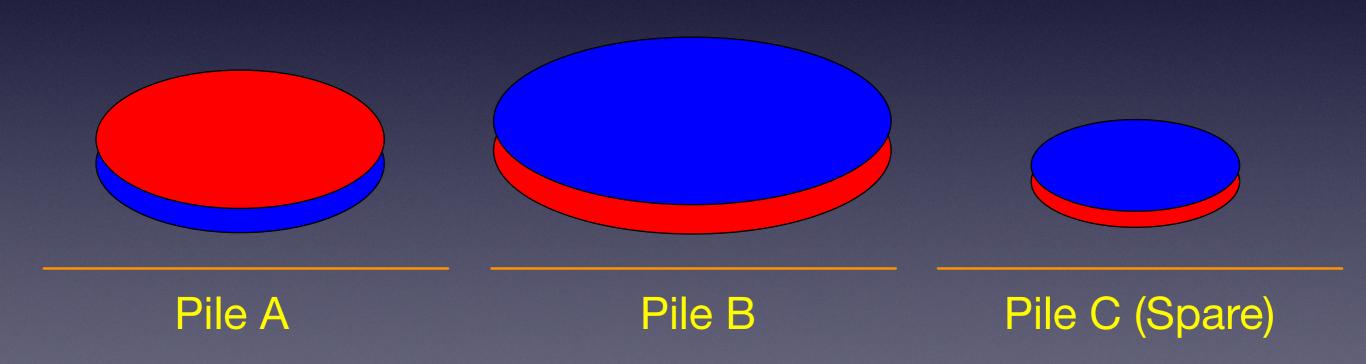


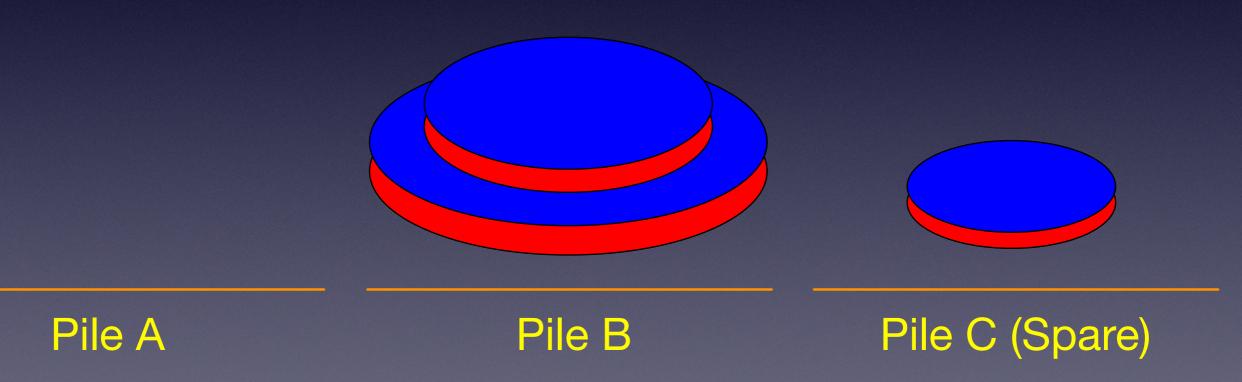


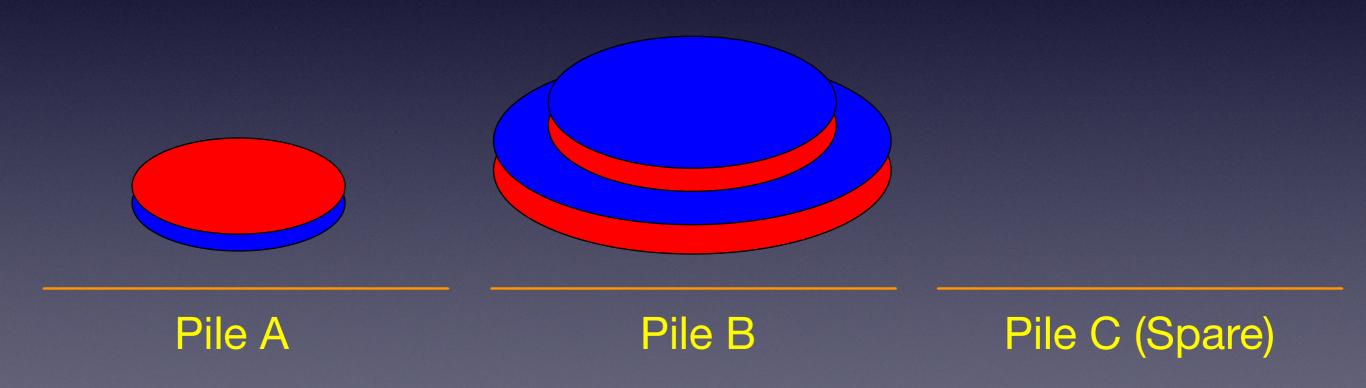


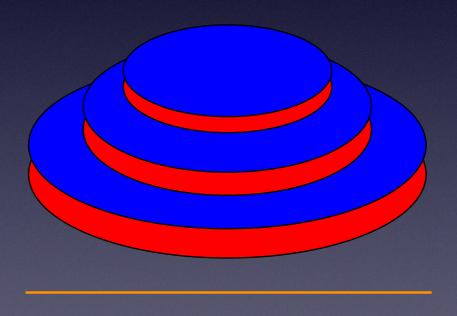












Pile A

Pile B

Pile C (Spare)

(Partial) Algorithm

```
magnetic_hanoi (N, A, B) {
  if n > 1 magnetic_hanoi (N-1, A, C)
  move (1, A, B)
  if n > 1 magnetic_hanoi (N-1, C, A)
  if n > 1 magnetic_hanoi (N-1, A, B)
}
```