Bogo sort

```
import random

def bogoSort(a):
    n = len(a)
    while (is_sorted(a)== False):
        shuffle(a)


def is_sorted(a):
    n = len(a)
    for i in range(0, n-1):
        if (a[i] > a[i+1] ):
            return False
    return True

def shuffle(a):
    n = len(a)
    for i in range (0,n):
        r = random.randint(0,n-1)
        a[i], a[r] = a[r], a[i]

a = [3, 2, 4, 1, 0, 5]
bogoSort(a)
print("Sorted array :")
for i in range(len(a)):
    print ("%d" %a[i]),
```

Pancake sort

```
def flip(arr, i):
    start = 0
    while start < i:
        temp = arr[start]
        arr[start] = arr[i]
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        arr[i] = temp
        start += 1
        i -= 1

def findMax(arr, n):
    mi = 0
    for i in range(0,n):
        if arr[i] > arr[mi]:
            mi = i
    return mi

def pancakeSort(arr, n):
    curr_size = n
    while curr_size > 1:
        mi = findMax(arr, curr_size)
        if mi != curr_size-1:
            flip(arr, mi)
            flip(arr, curr_size-1)
        curr_size -= 1

def printArray(arr, n):
    for i in range(0,n):
        print ("%d"%( arr[i]),end=" ")

arr = [23, 10, 20, 11, 12, 6, 7]
n = len(arr)
pancakeSort(arr, n);
print ("Sorted Array ")
printArray(arr,n)
```