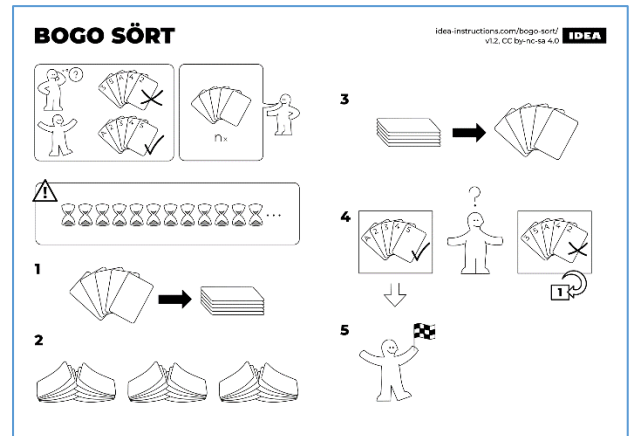# Bogo Sort

- Bogosort is a highly ineffective sorting function. Its name comes from the word bogus. It is also called permutation sort, stupid sort, slowsort or monkey sort.
- The function successively generates new random permutations of its input until it finds one that is sorted. It is not useful for sorting, but may be used for educational purposes, to contrast it with more efficient algorithms. An analogy for this sort is to sort a deck of cards by throwing the deck into the air, pick up the cards at random, and repeating the process until the deck is sorted.

- To do: Fill in the following program to finish the bogosort code.

```java
public class bogoRunner {
    public static void main(String args[]){
        new bogoRunner();
    }
    public bogoRunner(){
        int a [] = {4, 5, 3, 7, 8, 10, 1, 6};
        bogoSort(a);
    }
    public void bogoSort(int a[]){
        while (!isSorted(a)){
            //TO DO: randomize all elements in the array

        }
        //TO DO: print out the array so the user can verify it is sorted

    }

    public boolean isSorted(int a[]){
        //TO DO: returns true if the array is sorted, false otherwise

    }
}
```