Array Set

* Use array bag as a guide
* Reusae as much as possible
* Contains has to be binary search
* Interface with sets – quadratic
* Union: allowed quadratic time equals: linear time

1. Use array bag as guide
2. On all methods that say don’t change don’t change. The way he wants it to work
3. Notice to String for each loop ( iterator) iterate over this (this array bag) start with iterator method
4. Use exactly in the array bag! Only different in not set it was in its own class
5. Implement all iterator methods. DO the ones that takes sets as parameters first
6. Implementing sets as parameters understand the restrictions (what you know and what you do not know) it is an object. No idea if its an arrayset
7. Principle dry don’t repeat yourself: refactoring. One methods for search(locate) that add calls remove call and contains calls : binary search for contains. Private method locate implementing search. Should return the index of what its searching for if its there or the index of where it should be.
8. Use compareTo for search method
9. Return arrayset
10. Never return an allias on a set method
11. Add remove have to keep array in sorted order but never sort the array: private method to shift. the method over to the right Same for the left
12. Inside add search and find where it should go.
13. Add a private constructor only arraysets
    1. Private ArraySet(int[] a, int starts, int end)
       1. A: already sorted
14. Intersection arraySet cant call add method, beause its quadratic. Build your own array
15. Say build me an arrayset out of this array
16. Power set iterator should be the last thing to attempt