Algorithm Analysis

Specific

$$\frac{600,000}{2} \; v. \; Log_2(600,000) \qquad \Big| \qquad \frac{n}{2} \; v. \; Log_2(n)$$

$$300,000 \; v. \; 19.19$$

Data Structures?

Array List<>();

Why did I really
need that array list?
⌐> Set = No duplicates
⌐> Does Orde Matter
   ⌐ List or a Bag
⌐> Do the elements
   have a natural
   order?
     Sorted list
     Unsorted list

AVL Tree

Drop in replacement for:
A collection where
order of arrival
doesn't matter.
Advantage over Array List
is lookup speed