Basics of java collection api
----
readymade ds:" java collection"
aka readymade ds in java
how to use them?
performance consideration?

Collection
List: allow duplicate
LinkList
Vector
ArrayList
PriorityQueue

Set
HashSet: interanlly use hashing*
hashing make searching optimal operation
Big O Notation: O(1)

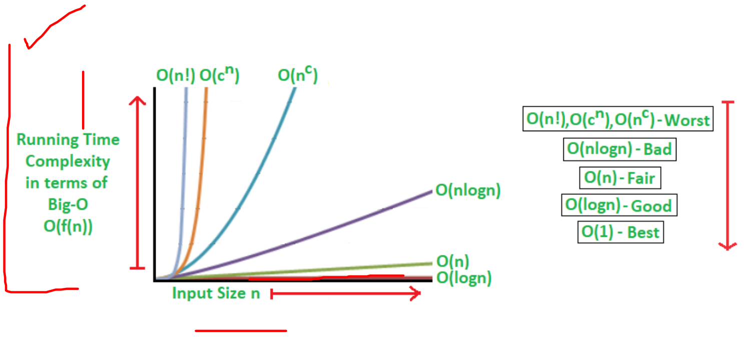
neighter sorted nor ordered

LinkedHashSet
it maintain the inerstion order
TreeSet
put the data into to sorted order

Map
HashMap
LinkedHashMap
TreeMap

Map is a special collection
K, V
marks of student
name marks

Generics:
used with java data structure
it was added in java 5 (2004)



Hashing:

a
all
almost
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below
could
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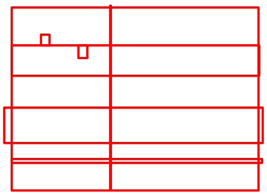
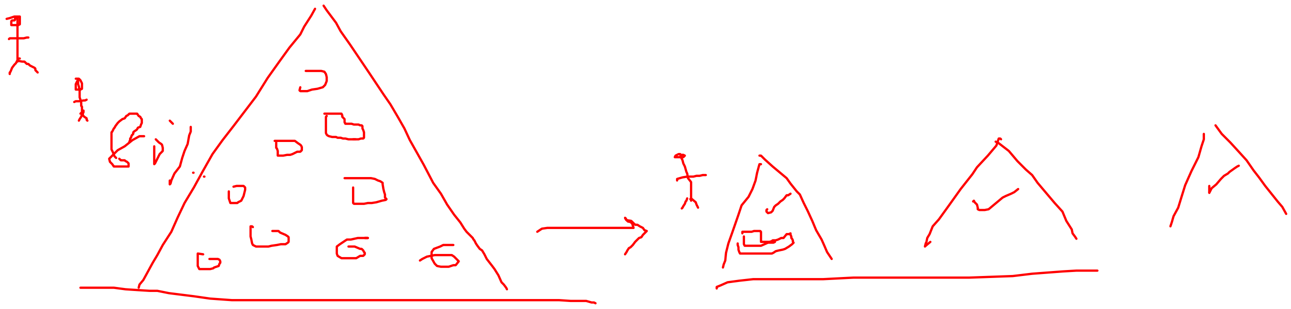
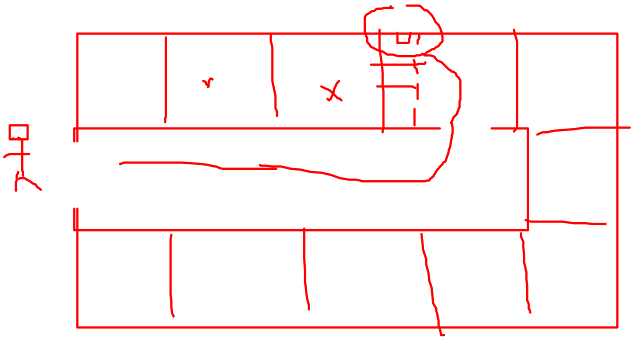
a
all

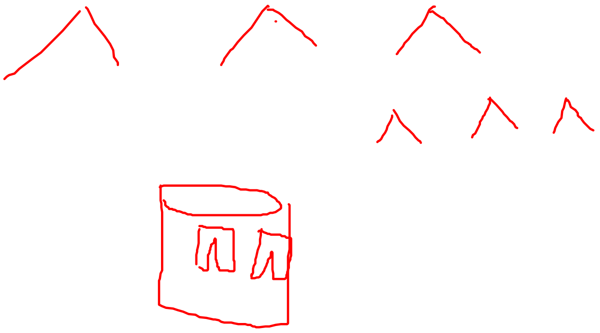


Why hashing and what is that
mathmatical way to arrange data so that retival performance must be best
O(1)



Lee Jeans with 36 w





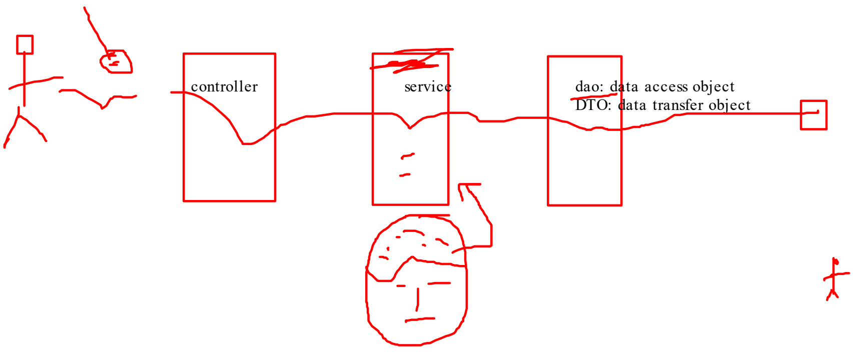
java Object:

equals: if 2 objects are eq they should be from the same bucket

hashcode: if two objects have same hashcode they may be same or not

hashing is a process to divide data into the buckets
for ……

DTO

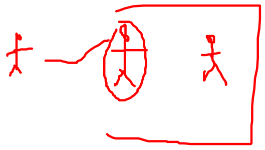


controller

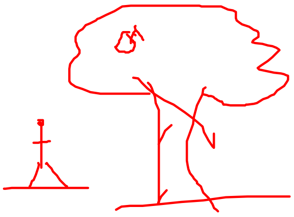
service

dao: data access object
DTO: data transfer object

validation
tx
security
caching



```
interface Cookable{
        void cook();
}
public class C_AnnonymousInnerClass {

        public static void main(String[] args) {

                Cookable c=new Cookable(){

                        @Override
                        public void cook() {
                                System.out.println("street food");
                        }
                };
Cookable c2=new Cookable() {

                        @Override
                        public void cook() {
                                System.out.println("street food");
                        }
                };



        }

}
```



hey java cookable is interface
take it and implement it into a class
i dont care about the name of that class
just give me sigle object of that class