was

Import java. util. Randon

chease arada number

new Random () rext Fat (count)

replace that elevent with rests oull decrement count to the elevent

move last elevent to threphase the note

what's the poblen? add won't most frequency wen't we

Renove

find first epraph of suap last decrement count

letura True

Solution: Take telement at count : put at inter

Going over what we aren't doing for a reason to have As your problems get horder and you work with more people, you'll need to bring themaby withyou you may go straight to agood solution but it you stop there, you may miss the bost one. Also increasingly there is no right answer.

Sharing code, we can repolace with aprivate method

this course strylon yourerd up.

your cluss makes but relating to yourself in week!

Sura Crading
Rusba Duch & Debugging
Bogs and Memore

Sound Private nethods Polymorphism Costing

Expandable Flemble Linked Bag

More Java private methods - are not postot an interface - are not available outside the char - Otten called "helper methods", which let you reuse code Retactor change the implementation of an existing function without changing the public behavior Poly morphom Object Oriented Alexander Programming -Literally - Many tors Abstruction

Single variable Encapsulation

Can held many type Destroy Hiding Paperalle

of objects Interitance

Shape 52 Rectans - Sub 1 Superclasses

Squancy

Circlell

Retargle r = Rect

Squancy

Squanc variable type abjet type what is available what is available what is evaluated Casting - Bota 13

- Must declare types in Jane
- When there is a difference between variable type; reterence type

1 to 3 somethis recessary to cost the milable to

a rew type - Upcasting Change up the class hereuchy
- Sava handles this autonationly - Downcosting

- change down the class neigrardy

- must to this explicitly

- it the types are wrong, you get eleons

Object Class - Every class in Java inherits from the Object class lade to diagram ! - For any type & See Cother than principles! -Object 0 = new Integer (5) Passate Skels - Example methods on Object - String to String()
- locolour equals (30 Object 0) Consent By to Objects Still have to do explicit costing - Mentally tracking types - Likely causes causes Generics Gerenic Types let you use a variety of types letyou work with a Type before you know what it is - The data structuresdown't thou the the type.

The user of the data structured down Advantages
- Avoids costing
- Language continues nistakes for us.

Convert to governic

Restring a Bay
- Ve want to relax the vatriction that also has find -
- We want to relax the instriction that aboy has fixed stee
- How do ve add row?
1. If how is full return file >
12. His insert out count } Called Rivedocade  3. Incient count 4. Retain false
1 2. His insert out count } Called Rivedocade  3. Increment count 4. Retorn false
la It bay is full create a new along copy
Is for each elevent of the original array, make it to the per array
la It bag is full create a new army copy 16 for each elevent of the original army, make it to the new army 10 Replace the old army with the new army
Walter of Of Day Street TILL
Note Armys. copy Of ()
abldd 117
i din din din din din din din din din di
Time it Bia-0
How many stops coas this take to m the world cause
Ested - renoie : O(n)
How many stops does this take to mite worst case  - add: O(n)  - remove: O(n)  - grab: O(1)  - get Frequency Of: O(n) > alooth make
Vill tolk more indepth on Byyou
N * * * * * * * * * * * * * * * * * * *
braked Buy Ve are asking for more than in need (but not very often), or is ask  Need to troop madeine
Next to trea maderic
What it I just ash for linger?
Ask for a new integer each time
Wests Slepoble ? Don't truck When the ints on Soldton? Stor published
Dar't know when the into an
Soloton? Store arthurs

addresses