

COP 3330 3/23/26

1. Showed stuff Added to Webpage
2. FRIDAY'S LEC PRE-RECORD!!!
DON'T COME TO CLASS
3. NEXT 2 WEEKS
Use Java API specifically
built in data structures

Processing Input

- 1) Tokenize (read tokens 1 by 1)
nextInt(), nextDouble(), nextLong()
next()
- 2) If you can't Tokenize, you MUST
read line by line ONLY.
nextLine()
"John Richard Abremson"
→ { "John", "Richard", "Abremson" }

StringTokenizer Class

```
StringTokenizer tok = new StringTokenizer(line);  
    ↑           ↑  
nospace      String
```

```
String nextToken()  
int countTokens()  
    { "Richard", "Abramsen" }  
    ↑  
returns "John"
```

← tok
"Candy 2.99"

```
String item = tok.nextToken();
```

```
String price = tok.nextToken();
```

→ "2.99"

to convert, do

```
int Integer.parseInt(String)
```

```
double Double.parseDouble(String)
```

```
long Long.parseLong(String)
```

```
double myprice = Double.parseDouble(price);
```

Usually, double price = Double.parseDouble(tok.nextToken());

price → "\$2.99"

StringTokenizer tok2 = new StringTokenizer(price, "\$");

double myprice = Double.parseDouble(tok2.nextToken());
DELIMITERS

double myprice = Double.parseDouble(price.substring(1));

Array List

resizable array uses Generics.

ArrayList<Integer> list = new ArrayList<Integer>();

Wrapper
Class

O(1) .add	}	MOST IMP	
O(1) .get			
O(1) .size			
O(1) .remove			0 1 2

list.add(3)
list.add(5)
↑
7 3 5

list.add(3)
list.add(5);
S.o.p (list.get(1)); // prints 3

Example

Sort People by age oldest to youngest

n // # of people

Name (2 or more tokens)

2002/3/16 10:26

Name#2

2002/3/10 22:19

2n
lines

