

ECS 10

10/29

Announcements

- Assignment 4 due tonight.
- Midterm scores on myUCDavis.
- Midterm curve:
 - 17 or better, A
 - 14 or better, B
 - 11 or better, C
 - 8 or better, D
- Median grade:

Last time: files

- Program to cut article into sentences

```
while loop to read file
  put all words in file into a list
for loop to output sentences
  read list of word
  when we see a period, output sentence
```

Structure of program

- Very typical program structure:

```
while loop to read file
  put some data into a data structure
loop to do something with data
  remove data from data structure
  produce some output
```

Another example

- Program that answers questions based on data.

```
Select your Congressional district: 1
Mike Thompson is the Representative from District 1
```

- Questions known as **queries**.
- Different data structures for different kinds of queries.

Getting just the name

- Often you don't want all the data.
- Use your string processing skills!
- Here a line is:

```
District 0 Mike Thompson
....
District 24 Howard P. "Buck" Mckeon
```
- We want the words in positions 2-the end

Making a list of names

```
repList[0] = 'Mike Thompson'
```

- Just concatenate each new name onto the list.
- Index in list will be number of district which that person represents.

```
repList = repList + [name]
```

concatenation list of length 1, containing name.