Class06 HW

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Load library

```
library(bio3d)
```

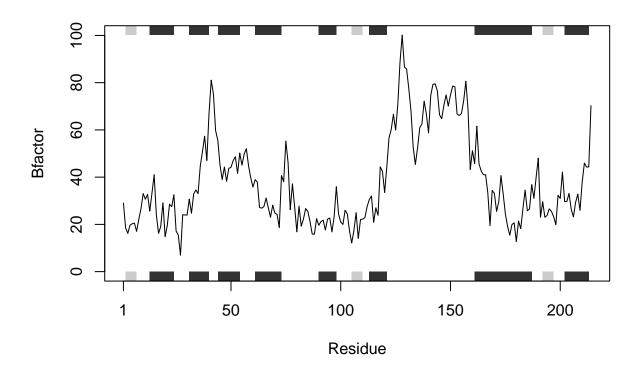
Function to read and process PDB structure

```
process_pdb <- function(pdb_id) {
  pdb <- read.pdb(pdb_id)
  # Trim PDB to chain A and CA atoms only
    chainA <- trim.pdb(pdb, chain = "A", elety = "CA")
    # Extract B-factors for CA atoms
    b_factors <- chainA$atom$b
    # Return plot
    plotb3(b_factors, sse=chainA, typ="l", ylab="Bfactor")
}</pre>
```

Plots Generaation with input to test function process_pdb

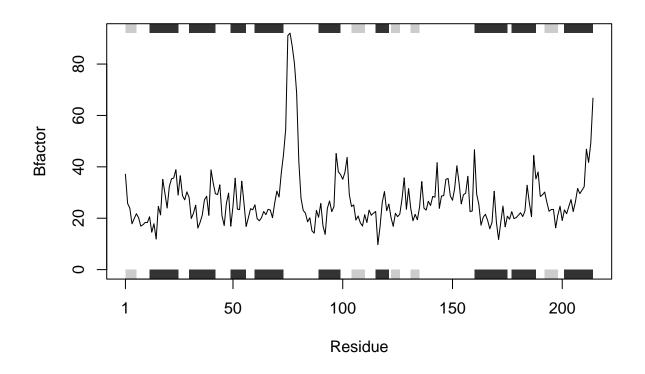
```
process_pdb("4AKE")
```

Note: Accessing on-line PDB file



process_pdb("1AKE")

- ##
- Note: Accessing on-line PDB file PDB has ALT records, taking A only, rm.alt=TRUE ##



process_pdb("1E4Y")

Note: Accessing on-line PDB file

