

class06homework

```
hc <- hclust( dist( rbind(s1.b, s2.b, s3.b) ) ) plot(hc)
```

Q6. How would you generalize the original code above to work with any set of input protein structures?

```
library(bio3d)

#input is "p", standing for any protein you are analyzing
#function takes protein p and searches for it in dataset-> finds residue and vfactor value
#output: creates a plot showing Bfactor interactions with residue/amino acid
my_function <- function(p){
  s<-read.pdb(p)

  s.chainA <- trim.pdb(s, chain="A", elety="CA")
  s.b<-s.chainA$atom$b

  plotb3(s.b,sse=s.chainA, typ="l", ylab="Bfactor")
}

my_function("4AKE")
```

Note: Accessing on-line PDB file

