Assignment5

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sol:

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TER END

3 H

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```
[ese-wangs@login02 python_class]$ ln -s data_demo data_demo_link
[ese-wangs@login02 python class]$ 1s
data demo data demo link
[ese-wangs@login02 python class]$
[ese-wangs@login02 python class]$ echo $USER
ese-wangs
[ese-wangs@login02 python class]$ cd data demo/molecules/
[ese-wangs@login02 molecules]$ touch test.pdb
[ese-wangs@login02 molecules]$ 1s
cubane.pdb ethane.pdb methane.pdb octane.pdb pentane.pdb propane.pdb test.pdb
[ese-wangs@login02 data demo]$ cd data/elements/
[ese-wangs@login02 elements]$ ls -1 |grep "^-"|wc -1
103
[ese-wangs@login02 elements]$
[ese-wangs@login02 pdb]$ diff -c ethane.pdb ethanol.pdb
** ethane.pdb 2021-11-24 19:21:39.459368000 +0800
-- ethanol.pdb 2021-11-24 19:21:39.456436000 +0800
*** 1,12 ****
 COMPND
           ETHANE
 AUTHOR
             DAVE WOODCOCK 95 12 18
                                   -0.752 0.001 -0.141 1.00 0.00
0.752 -0.001 0.141 1.00 0.00
 MOTA
                                  -1.158 0.991 0.070 1.00 0.00
          3 H
 MOTA
          4 H
                                  -1.240 -0.737 0.496 1.00 0.00
 MOTA
 MOTA
                                  1.158 -0.991 -0.070 1.00 0.00
0.924 0.249 1.188 1.00 0.00
1.240 0.737 -0.496 1.00 0.00
 ATOM
         7 H
 MOTA
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 END
  - 1,13 ----
         ETHANOL
 COMPND
             DAVE WOODCOCK 96 01 03
 AUTHOR
                               -0.426 -0.115 -0.147 1.00 0.00
-0.599 1.244 -0.481 1.00 0.00
-0.750 -0.738 -0.981 1.00 0.00
 ATOM
```

-1.642 1.434 -0.689 1.00 0.00

1.370 0.240 0.981 1.00 0.00 1.642 -0.147 -0.735 1.00 0.00 1.180 -1.434 0.405 1.00 0.00

```
e-wangs@login02 data_demo]$ cd writing/c
[ese-wangs@login02 data]$ grep -rn 'But she'*
 ittleWomen.txt:1808:"Oh, bless you, no! But she let old Belsham rest, and when I ran back ittleWomen.txt:2746:small quaver in her voice, "I came to thank you, sir, for..." But she
  ttleWomen.txt:3635:than she went. But she begged so hard, and Sallie had promised to take
                     But she does not hunt as our darling did,
                     But she only spits at the dogs our pet
But she is not fair to see,
 ittleWomen.txt:4879:queer thing for her to do, she doesn't act a bit like herself. But she
  ttleWomen.txt:13203:aspirant for fame, with philosophic composure. But she made a wry face
 ttleWomen.txt:14085:her. But she can pet and comfort him after I'm gone, and so cure him
  tleWomen.txt:15723:to see signs of hope in the faint color on Beth's cheeks. But sh
 ittleWomen.txt:16081:<mark>But she</mark> did not get it, for though he joined her and answered all her
  ttleWomen.txt:16912:sketchbook. But she tucked it under her arm with a sharp...
 ittleWomen.txt:17939:Amy did any of these fond and foolish things. But she certainly did ittleWomen.txt:19071:But she did show something better than brilliancy or skill, for she
       men.txt:19091:grasshopper. But she would have consented if he had proposed to sing a
[ese-wangs@login02 writing]$ du -h data
          data
[ese-wangs@login02 writing]$
 ese-wangs@login02 ~]$ cd python_class/data_demo/
[ese-wangs@login02 data demo]$ cp -r writing/ writing new
[ese-wangs@login02 data_demo]$ ls
creatures data_demo north-pacific-gyre pizza.cfg writing
           molecules notes
                                               solar.pdf writing new
[ese-wangs@login02 data_demo]$ zip -r writing_new.zip ./*
         zip warning: name not matched: ./data demo
 adding: creatures/ (stored 0%)
  adding: creatures/basilisk.dat (deflated 59%)
  adding: creatures/minotaur.dat (deflated 58%)
  adding: creatures/unicorn.dat (deflated 63%)
  adding: data/ (stored 0%)
  adding: data/amino-acids.txt (deflated 42%)
  adding: data/pdb/ (stored 0%)
  adding: data/pdb/lanoxin.pdb (deflated 76%)
  adding: data/pdb/methanol.pdb (deflated 63%)
  adding: data/pdb/citronellal.pdb (deflated 71%)
  adding: data/pdb/norethindrone.pdb (deflated 73%)
  adding: data/pdb/heme.pdb (deflated 74%)
 adding: data/pdb/mustard.pdb (deflated 72%)
 adding: data/pdb/ammonia.pdb (deflated 57%)
 adding: data/pdb/ascorbic-acid.pdb (deflated 73%)
 adding: data/pdb/lactic-acid.pdb (deflated 73%)
  adding: data/pdb/methane.pdb (deflated 66%)
 adding: data/pdb/morphine.pdb (deflated 72%)
 adding: data/pdb/piperine.pdb (deflated 71%)
 adding: data/pdb/maltose.pdb (deflated 73%)
 adding: data/pdb/testosterone.pdb (deflated 73%)
 adding: data/pdb/thiamine.pdb (deflated 72%)
  adding: data/pdb/quinine.pdb (deflated 77%)
  adding: data/pdb/tyrian-purple.pdb (deflated 75%)
  adding: data/pdb/tuberin.pdb (deflated 76%)
  adding: data/pdb/cinnamaldehyde.pdb (deflated 69%)
  adding: data/pdb/vitamin-a.pdb (deflated 74%)
  adding: data/pdb/ethylcyclohexane.pdb (deflated 73%)
  adding: data/pdb/strychnine.pdb (deflated 73%)
 adding: data/pdb/sucrose.pdb (deflated 73%)
 adding: data/pdb/pentane.pdb (deflated 74%)
  adding: data/pdb/nerol.pdb (deflated 75%)
```

```
[ese-wangs@login02 data demo]$ ls
creatures data_demo north-pacific-gyre pizza.cfg writing data molecules notes solar.pdf writing_new
[ese-wangs@login02 data_demo]$ unzip -o writing_new.zip
Archive: writing_new.zip
 inflating: creatures/basilisk.dat
 inflating: creatures/minotaur.dat
 inflating: creatures/unicorn.dat
 inflating: data/amino-acids.txt
 inflating: data/pdb/lanoxin.pdb
 inflating: data/pdb/methanol.pdb
 inflating: data/pdb/citronellal.pdb
 inflating: data/pdb/norethindrone.pdb
 inflating: data/pdb/heme.pdb
 inflating: data/pdb/mustard.pdb
 inflating: data/pdb/ammonia.pdb
 inflating: data/pdb/ascorbic-acid.pdb
 inflating: data/pdb/lactic-acid.pdb
[ese-wangs@login02 data_demo]$ chmod 750 writing_new
[ese-wangs@login02 data_demo]$ ls
creatures data_demo north-pacific-gyre pizza.cfg writing data molecules notes solar.pdf writing_new
                                                                    writing_new.zip
[ese-wangs@login02 data demo]$ history 10
1030 cd python class/data demo/
1031 cp -r writing/ writing new
1032 ls
1033 zip -r writing new.zip ./*
```

```
sol2.
在文件内创建一个叫做 loop.sh 的文件,内容如下
for pdb in *.pdb
do
du -b $pdb
```

1035 unzip -o writing new.zip

[ese-wangs@login02 data_demo]\$

1037 chmod 750 writing new

1034 ls

1036 ls

1038 ls

done

1039 history 10

```
[ese-wangs@login02 data]$ cd pdb/
[ese-wangs@login02 pdb]$ chmod 750 loop.sh
[ese-wangs@login02 pdb]$ ./ loop.sh
-bash: ./: Is a directory
[ese-wangs@login02 pdb]$ ./loop.sh
1516 aldrin.pdb
306
      ammonia.pdb
1444
      ascorbic-acid.pdb
1030 benzaldehyde.pdb
1830 camphene.pdb
5049
      cholesterol.pdb
1090
      cinnamaldehyde.pdb
1694
     citronellal.pdb
2452
      codeine.pdb
1158
      cubane.pdb
      cyclobutane.pdb
895
1384
      cyclohexanol.pdb
695
       cyclopropane.pdb
622
       ethane.pdb
690
      ethanol.pdb
2396
      ethylcyclohexane.pdb
765
      glycol.pdb
4209
      heme.pdb
1064
      lactic-acid.pdb
2562
      lactose.pdb
11193
       lanoxin.pdb
3395
     lsd.pdb
2562
      maltose.pdb
2164 menthol.pdb
422
      methane.pdb
490
      methanol.pdb
1869
      mint.pdb
      morphine.pdb
2288
2123 mustard.pdb
1680 nerol.pdb
```