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~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > touch example1.txt 15:25:24

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > ls 15:26:10
creatdir.sh file1 file2 file4 file6 file8
example1.txt file10 file3 file5 file7 file9

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > cat example1.txt 15:26:12

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > echo First, Last, Occupatipon, Age, Sex >>
example1.txt

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > cat example1.txt 15:27:04
First, Last, Occupatipon, Age, Sex

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > echo Albert, Einstein, Scientist, 60, M >>
example1.txt

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > echo Tom, Hanks, Actor, 55, M >> example1.t
xt

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > echo Elvis, Presley, Musician,43, M >> exam
ple1.txt

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > echo Natalie, Portman, Actress, 42, F >> ex
ample1.txt

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > echo Marie, Curie, Scientist, 50, F >> exam
ple1.txt

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > cat example1.txt 15:29:18
First, Last, Occupatipon, Age, Sex
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
Elvis, Presley, Musician,43, M
Natalie, Portman, Actress, 42, F
Marie, Curie, Scientist, 50, F

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > mkdir bash_problems 15:29:21

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > ls 15:29:34
bash_problems file1 file3 file6 file9
creatdir.sh file10 file4 file7
example1.txt file2 file5 file8

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > mv example1.txt bash_problems 15:29:35

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > ls 15:30:01
bash_problems file1 file2 file4 file6 file8
creatdir.sh file10 file3 file5 file7 file9

~/L/C1/O/Do/I/SEM6/PHY47/PHY473_home_work > cd bash_problems 15:30:02

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ls 15:30:08
example1.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat example1.txt 15:30:09
First, Last, Occupatipon, Age, Sex
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M

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Elvis, Presley, Musician,43, M
Natalie, Portman, Actress, 42, F
Marie, Curie, Scientist, 50, F

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cp example1.txt example2.txt 15:30:12

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ls 15:30:31
example1.txt example2.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat example2.txt 15:30:34
First, Last, Occupatipon, Age, Sex
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
Elvis, Presley, Musician,43, M
Natalie, Portman, Actress, 42, F
Marie, Curie, Scientist, 50, F

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example2.txt 15:30:41
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
Elvis, Presley, Musician,43, M
Natalie, Portman, Actress, 42, F
Marie, Curie, Scientist, 50, F

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example2.txt | sort example2.txt
Albert, Einstein, Scientist, 60, M
Elvis, Presley, Musician,43, M
First, Last, Occupatipon, Age, Sex
Marie, Curie, Scientist, 50, F
Natalie, Portman, Actress, 42, F
Tom, Hanks, Actor, 55, M

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > sort -k4 example2.txt | tail -n +2 example2.txt
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
Elvis, Presley, Musician,43, M
Natalie, Portman, Actress, 42, F
Marie, Curie, Scientist, 50, F

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example2.txt | sort -k4 -n example2.txt
Elvis, Presley, Musician,43, M
First, Last, Occupatipon, Age, Sex
Natalie, Portman, Actress, 42, F
Marie, Curie, Scientist, 50, F
Tom, Hanks, Actor, 55, M
Albert, Einstein, Scientist, 60, M

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > 15:39:19

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > 15:40:35

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example2.txt | sort 15:40:35
Albert, Einstein, Scientist, 60, M
Elvis, Presley, Musician,43, M
Marie, Curie, Scientist, 50, F
Natalie, Portman, Actress, 42, F
Tom, Hanks, Actor, 55, M

```

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example2.txt | sort -k4 -rn
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
Marie, Curie, Scientist, 50, F
Natalie, Portman, Actress, 42, F
Elvis, Presley, Musician,43, M

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > grep "Elvis" example1.txt 15:42:21
Elvis, Presley, Musician,43, M

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > grep "E[a-z][a-z][a-z][a-z]" example1.txt
Albert, Einstein, Scientist, 60, M
Elvis, Presley, Musician,43, M

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > grep "E[a-z][a-z][a-z][a-z] " example1.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > grep "E[a-z][a-z][a-z][a-z]" example1.txt
Albert, Einstein, Scientist, 60, M
Elvis, Presley, Musician,43, M

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > grep -i "E[a-z][a-z][a-z][a-z]" example1.txt
Albert, Einstein, Scientist, 60, M
Elvis, Presley, Musician,43, M
Marie, Curie, Scientist, 50, F

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > grep "^E[a-z][a-z][a-z][a-z]" example1.txt
Elvis, Presley, Musician,43, M

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > grep "^E[a-z][a-z][a-z]" example1.txt
Elvis, Presley, Musician,43, M

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > no 15:55:20
zsh: command not found: no

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > grep -E "E[a-z][a-z][a-z][a-z]" example1.txt
Albert, Einstein, Scientist, 60, M
Elvis, Presley, Musician,43, M

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > grep -E "E[a-z][a-z][a-z][a-z]" example1.tx
t

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example1.txt | sort -k2 | awk '{
print $1 , $2 , $3 }' | >> names.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ls 16:16:46
example1.txt example2.txt names.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat names.txt 16:16:50
Marie, Curie, Scientist,
Albert, Einstein, Scientist,
Tom, Hanks, Actor,
Natalie, Portman, Actress,
Elvis, Presley, Musician,43,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example1.txt | sort -k2 | awk '{
print $1,$2,$3}' | > name.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ls 16:20:10

```

example1.txt example2.txt name.txt names.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat name.txt 16:20:13

Marie, Curie, Scientist,
Albert, Einstein, Scientist,
Tom, Hanks, Actor,
Natalie, Portman, Actress,
Elvis, Presley, Musician,43,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > vim example1.txt 16:20:18

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example1.txt | sort -k2 | awk '{
print \$1,\$2,\$3}' | > name.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat name.txt 16:20:51

Marie, Curie, Scientist,
Albert, Einstein, Scientist,
Tom, Hanks, Actor,
Natalie, Portman, Actress,
Elvis, Presley, Musician,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > mv name.txt names.txt 16:20:55

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ls 16:21:07

example1.txt example2.txt names.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat names.txt 16:21:08

Marie, Curie, Scientist,
Albert, Einstein, Scientist,
Tom, Hanks, Actor,
Natalie, Portman, Actress,
Elvis, Presley, Musician,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > nice 16:21:14

usage: nice [-n increment] utility [argument ...]

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > sed 's/Scientist/Physicist/g' names.txt

Marie, Curie, Physicist,
Albert, Einstein, Physicist,
Tom, Hanks, Actor,
Natalie, Portman, Actress,
Elvis, Presley, Musician,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat names.txt 16:23:14

Marie, Curie, Scientist,
Albert, Einstein, Scientist,
Tom, Hanks, Actor,
Natalie, Portman, Actress,
Elvis, Presley, Musician,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example1.txt | awk '\$5=F' | > fem
ale.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat female.txt 16:27:31

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example1.txt | awk '\$5 = "F"' | >
female.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat female.txt 16:46:58

```
Albert, Einstein, Scientist, 60, F
Tom, Hanks, Actor, 55, F
Elvis, Presley, Musician, 43, F
Natalie, Portman, Actress, 42, F
Marie, Curie, Scientist, 50, F
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > example1.txt 16:47:05
zsh: command not found: example1.txt
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat example1.txt 16:47:19
First, Last, Occupation, Age, Sex
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
Elvis, Presley, Musician, 43, M
Natalie, Portman, Actress, 42, F
Marie, Curie, Scientist, 50, F
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example1.txt | awk '$5 == "F"' | > female.txt
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ls 16:47:45
example1.txt example2.txt female.txt names.txt
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat female.txt 16:47:49
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
Elvis, Presley, Musician, 43, M
Natalie, Portman, Actress, 42, F
Marie, Curie, Scientist, 50, F
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example1.txt | awk '/F/{ print $1 , $2 , $3 , $4 }' | > female.txt
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat female.txt 16:52:53
Natalie, Portman, Actress, 42,
Marie, Curie, Scientist, 50,
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > 16:52:58
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ls 16:54:02
example1.txt example2.txt female.txt names.txt
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > vim copy.sh 16:54:03
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > which -a bash 6s 16:57:24
/opt/local/bin/bash
/opt/homebrew/bin/bash
/bin/bash
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > vim copy.sh 16:57:29
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat copy.sh 51s 16:58:27
#!/opt/homebrew/bin/bash
```

```
for file in *.txt; do
    echo "$file"
done
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > chmod u+x copy.sh 16:58:32
```

```

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ./copy.sh 16:58:48
example1.txt
example2.txt
female.txt
names.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > vim copy.sh 16:58:52

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > vim copy.sh 3m 43s 17:08:55

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > 57s 17:11:59

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > 17:11:59

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ./copy.sh 17:12:00
copying : example1.txt
head: illegal line count -- -2
copying : example2.txt
head: illegal line count -- -2
copying : female.txt
head: illegal line count -- -2
copying : names.txt
head: illegal line count -- -2

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ls 17:12:04
copy.sh          example2-copy.txt female.txt
example1-copy.txt example2.txt      names-copy.txt
example1.txt     female-copy.txt  names.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat female.txt 17:12:13
Natalie, Portman, Actress, 42,
Marie, Curie, Scientist, 50,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat names.txt 17:12:30
Marie, Curie, Scientist,
Albert, Einstein, Scientist,
Tom, Hanks, Actor,
Natalie, Portman, Actress,
Elvis, Presley, Musician,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat names-copy.txt 17:12:51

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > vim copy.sh 17:13:01

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ./copy.sh 1m 30s 17:14:39
copying : example1-copy.txt
copying : example1.txt
copying : example2-copy.txt
copying : example2.txt
copying : female-copy.txt
copying : female.txt
copying : names-copy.txt
copying : names.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ./copy.sh 17:14:45
copying : example1.txt
copying : example2.txt
copying : female.txt

```

copying : names.txt

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat names.sh 17:15:27
cat: names.sh: No such file or directory
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat names.txt 17:15:40
Marie, Curie, Scientist,
Albert, Einstein, Scientist,
Tom, Hanks, Actor,
Natalie, Portman, Actress,
Elvis, Presley, Musician,
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat names-copy.txt 17:15:46
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat co 17:15:54
cat: co: No such file or directory
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat copy.sh 17:16:09
#!/opt/homebrew/bin/bash
```

```
for file in *.txt; do
    echo "copying : $file"
    filename=${file::-4}
    tail -n +2 "$file" | head -2 | > "$filename-copy.txt"
done
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example1.txt | head -2 17:16:12
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 example1.txt | head -2 | > test.t 17:16:12
xt
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat text 17:17:29
cat: text: No such file or directory
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat text.txt 17:17:34
cat: text.txt: No such file or directory
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat test.txt 17:17:38
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ls 17:17:45
copy.sh          example2-copy.txt  female.txt        test.txt
example1-copy.txt example2.txt       names-copy.txt
example1.txt     female-copy.txt   names.txt
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat example1-copy.txt 17:17:56
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 "example1.txt" | head -2 17:17:56
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > tail -n +2 "example1.txt" | head -2 17:17:56
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
```

```
~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > vim copy.sh 17:18:39
```

```

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ./copy.sh 2m 36s 17:21:28
copying : example1.txt
copying : example2.txt
copying : female.txt
copying : names.txt
copying : test.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat example1-copy.txt 17:21:32

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat female-copy.txt 17:21:42

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > rm *-copy.txt 17:21:56

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ls 17:23:21
copy.sh      example1.txt example2.txt female.txt   names.txt   test.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > for file in *.txt 17:23:23
for>

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > for file in *.txt ; do INT 17:24:05
for>

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > for file in *.txt; do INT 17:24:30
for> tail -n +2 "$file" | head -2
for> done
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M
Marie, Curie, Scientist, 50,
Albert, Einstein, Scientist,
Tom, Hanks, Actor,
Tom, Hanks, Actor, 55, M

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ls 17:25:25
copy.sh      example1.txt example2.txt female.txt   names.txt   test.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat female 17:25:50
cat: female: No such file or directory

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat female.txt 17:25:56
Natalie, Portman, Actress, 42,
Marie, Curie, Scientist, 50,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat names.txt 17:26:00
Marie, Curie, Scientist,
Albert, Einstein, Scientist,
Tom, Hanks, Actor,
Natalie, Portman, Actress,
Elvis, Presley, Musician,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > vim copy.sh 17:26:25

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > ./copy.sh 1m 24s 17:29:58
copying : example1.txt
copying : example2.txt
copying : female.txt
copying : names.txt

```


copying : test.txt

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat example1-copy.txt 17:30:02

Albert, Einstein, Scientist, 60, M
Tom, Hanks, Actor, 55, M

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat names.txt 17:30:12

Marie, Curie, Scientist,
Albert, Einstein, Scientist,
Tom, Hanks, Actor,
Natalie, Portman, Actress,
Elvis, Presley, Musician,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > cat names-copy.txt 17:30:17

Albert, Einstein, Scientist,
Tom, Hanks, Actor,

~/L/C1/O/Do/I/SEM6/PHY47/P/bash_problems > 17:30:25