### Suppose in folder Files

## 1.1a sed 's/[[:punct:]]//g' rime.txt

[Yunfeis-Mac-Pro:Files yunfeiguo\$ sed 's/[[:punct:]]//g' rime.txt [THE RIME OF THE ANCIENT MARINER IN SEVEN PARTS

BY SAMUEL TAYLOR COLERIDGE

PART THE FIRST

It is an ancient Mariner And he stoppeth one of three By thy long grey beard and glittering eye Now wherefore stoppst thou me

The Bridegrooms doors are opened wide And I am next of kin The guests are met the feast is set Mayst hear the merry din

He holds him with his skinny hand There was a ship quoth he Hold off unhand me greybeard loon Eftsoons his hand dropt he

He holds him with his glittering eye The WeddingGuest stood still And listens like a three years child The Mariner hath his will

The WeddingGuest sat on a stone He cannot chuse but hear And thus spake on that ancient man The brighteyed Mariner

The ship was cheered the harbour cleared Merrily did we drop Below the kirk below the hill Below the lighthouse top

The Sun came up upon the left Out of the sea came he And he shone bright and on the right Went down into the sea

Higher and higher every day Till over the mast at noon The WeddingGuest here beat his breast For he heard the loud bassoon

The bride hath paced into the hall Red as a rose is she Nodding their heads before her goes The merry minstrelsy |Yunfeis-Mac-Pro:Files yunfeiguo\$ sed 's/ / /g' rime.txt | THE RIME OF THE ANCIENT MARINER IN SEVEN PARTS

BY SAMUEL TAYLOR COLERIDGE

PART THE FIRST.

It is an ancient Mariner, And he stoppeth one of three. "By thy long grey beard and glittering eye, Now wherefore stopp'st thou me?

"The Bridegroom's doors are opened wide, And I am next of kin; The guests are met, the feast is set: May'st hear the merry din."

He holds him with his skinny hand, "There was a ship," quoth he. "Hold off! unhand me, grey-beard loon!" Eftsoons his hand dropt he.

He holds him with his glittering eye— The Wedding-Guest stood still, And listens like a three years child: The Mariner hath his will.

The Wedding-Guest sat on a stone: He cannot chuse but hear; And thus spake on that ancient man, The bright-eyed Mariner.

The ship was cheered, the harbour cleared, Merrily did we drop Below the kirk, below the hill, Below the light-house top.

The Sun came up upon the left, Out of the sea came he! And he shone bright, and on the right Went down into the sea.

Higher and higher every day, Till over the mast at noon--The Wedding-Guest here beat his breast, For he heard the loud bassoon.

The bride hath paced into the hall, Red as a rose is she; [Yunfeis-Mac-Pro:Files yunfeiguo\$ sed -e 's/ / g' rime.txt| sed 's/^/ /g' THE RIME OF THE ANCIENT MARINER IN SEVEN PARTS

BY SAMUEL TAYLOR COLERIDGE

PART THE FIRST.

It is an ancient Mariner, And he stoppeth one of three. "By thy long grey beard and glittering eye, Now wherefore stopp'st thou me?

"The Bridegroom's doors are opened wide, And I am next of kin; The guests are met, the feast is set: May'st hear the merry din."

He holds him with his skinny hand, "There was a ship," quoth he. "Hold off! unhand me, grey-beard loon!" Eftsoons his hand dropt he.

He holds him with his glittering eye--The Wedding-Guest stood still, And listens like a three years child: The Mariner hath his will.

The Wedding-Guest sat on a stone: He cannot chuse but hear; And thus spake on that ancient man, The bright-eyed Mariner.

The ship was cheered, the harbour cleared, Merrily did we drop Below the kirk, below the hill, Below the light-house top.

The Sun came up upon the left, Out of the sea came he! And he shone bright, and on the right Went down into the sea.

Higher and higher every day,

```
[Yunfeis-Mac-Pro:Files yunfeiguo$ sed 's/[[:alpha:]]/(&)/g' rime.txt| sed 's/)(//g'
(THE) (RIME) (OF) (THE) (ANCIENT) (MARINER) (IN) (SEVEN) (PARTS)
(BY) (SAMUEL) (TAYLOR) (COLERIDGE)
(PART) (THE) (FIRST).
(It) (is) (an) (ancient) (Mariner),
(And) (he) (stoppeth) (one) (of) (three).
"(By) (thy) (long) (grey) (beard) (and) (glittering) (eye),
(Now) (wherefore) (stopp)'(st) (thou) (me)?
"(The) (Bridegroom)'(s) (doors) (are) (opened) (wide),
(And) (I) (am) (next) (of) (kin);
(The) (guests) (are) (met), (the) (feast) (is) (set):
(May)'(st) (hear) (the) (merry) (din)."
(He) (holds) (him) (with) (his) (skinny) (hand),
"(There) (was) (a) (ship), " (quoth) (he).
"(Hold) (off)! (unhand) (me), (grey)-(beard) (loon)!"
(Eftsoons) (his) (hand) (dropt) (he).
(He) (holds) (him) (with) (his) (glittering) (eye)--
(The) (Wedding)-(Guest) (stood) (still),
(And) (listens) (like) (a) (three) (years) (child):
(The) (Mariner) (hath) (his) (will).
(The) (Wedding)-(Guest) (sat) (on) (a) (stone):
(He) (cannot) (chuse) (but) (hear);
(And) (thus) (spake) (on) (that) (ancient) (man),
(The) (bright)-(eyed) (Mariner).
(The) (ship) (was) (cheered), (the) (harbour) (cleared),
(Merrily) (did) (we) (drop)
(Below) (the) (kirk), (below) (the) (hill), (Below) (the) (light)-(house) (top).
(The) (Sun) (came) (up) (upon) (the) (left),
(Out) (of) (the) (sea) (came) (he)!
(And) (he) (shone) (bright), (and) (on) (the) (right)
(Went) (down) (into) (the) (sea).
(Higher) (and) (higher) (every) (day),
(Till) (over) (the) (mast) (at) (noon)--
(The) (Wedding)-(Guest) (here) (beat) (his) (breast),
(For) (he) (heard) (the) (loud) (bassoon).
```

```
1.1e
  sed 's/[[:alpha:]]/(&)/g' rime.txt| sed 's/)(//g'|sed 's/ //g'
[Yunfeis-Mac-Pro:Files yunfeiguo 's/[[:alpha:]]/(\&)/g' rime.txt| sed 's/)(//g'|sed 's/ //g'] 
(THE)(RIME)(OF)(THE)(ANCIENT)(MARINER)(IN)(SEVEN)(PARTS)
(BY)(SAMUEL)(TAYLOR)(COLERIDGE)
(PART)(THE)(FIRST).
(It)(is)(an)(ancient)(Mariner),
(And)(he)(stoppeth)(one)(of)(three).
"(By)(thy)(long)(grey)(beard)(and)(glittering)(eye),
(Now)(wherefore)(stopp)'(st)(thou)(me)?
"(The)(Bridegroom)'(s)(doors)(are)(opened)(wide),
(And)(I)(am)(next)(of)(kin);
(The)(guests)(are)(met),(the)(feast)(is)(set):
(May)'(st)(hear)(the)(merry)(din)."
(He)(holds)(him)(with)(his)(skinny)(hand),
"(There)(was)(a)(ship), "(quoth)(he).
"(Hold)(off)!(unhand)(me),(grey)-(beard)(loon)!"
(Eftsoons)(his)(hand)(dropt)(he).
(He)(holds)(him)(with)(his)(glittering)(eye)--
(The)(Wedding)-(Guest)(stood)(still),
(And)(listens)(like)(a)(three)(years)(child):
(The)(Mariner)(hath)(his)(will).
(The)(Wedding)-(Guest)(sat)(on)(a)(stone):
(He)(cannot)(chuse)(but)(hear);
(And)(thus)(spake)(on)(that)(ancient)(man),
(The)(bright)-(eyed)(Mariner).
(The)(ship)(was)(cheered),(the)(harbour)(cleared),
(Merrily)(did)(we)(drop)
(Below)(the)(kirk),(below)(the)(hill),
(Below)(the)(light)-(house)(top).
(The)(Sun)(came)(up)(upon)(the)(left),
(Out)(of)(the)(sea)(came)(he)!
(And)(he)(shone)(bright),(and)(on)(the)(right)
(Went)(down)(into)(the)(sea).
(Higher)(and)(higher)(every)(day),
(Till)(over)(the)(mast)(at)(noon)--
```

(The)(Wedding)-(Guest)(here)(beat)(his)(breast),

(For)(he)(heard)(the)(loud)(bassoon).

```
[Yunfeis-Mac-Pro:Files yunfeiguo$ sed -n '/-[0-9]/p' inteff.csv
SE, ssws, 1534.1, 3005.86, 1328.04, 4333.88, -0.302, 0
SE, sssb, 23375.7, 3869.44, 2510.24, 6379.69, -0.303, 1
SE, sswb, 270.6, 1341.25, 1807.93, 3149.18, -0.323, 0
SE, wssb, 45576, 6630.44, 2313.1, 8943.54, -0.268, 1
SE, wswb, 16267.2, 3346.4, 1911.01, 5257.42, -0.295, 1
SE, sbwb, 13380.7, 4008.27, 1829.7, 5838, -0.223, 1
GE2, holfes, 3.44800000, 0.94389440, 0.32931090, 1.27320500, -0.04908214, 1
GE2, holbri, 3.58000000, 1.06942240, 0.20902390, 1.27844600, -0.06127105, 1
GE2, holpru, 3.96900000, 1.04140180, 0.24036810, 1.28177000, -0.05896012, 1
GE2, hollys, 6.77100000, 1.29716000, 0.24980690, 1.54696700, -0.04933826, 1
GE2, fesbri, 4.18400000, 0.87293190, 0.32144040, 1.19437200, -0.02448218, 1
GE2, feslych, 4.05400000, 0.75235450, 0.50803070, 1.26038500, -0.00280154, 1
GE2, feslys, 6.47100000, 1.09645930, 0.36436900, 1.46082800, -0.00995637, 1
GE2, lychpru, 3.29800000, 0.79997200, 0.37706370, 1.17703600, -0.02814007, 1
GE2, lychlys, 4.63700000, 1.07299120, 0.37218990, 1.44518100, -0.01427926, 1
GE2, prulys, 4.72400000, 1.08236950, 0.30288570, 1.38525500, -0.02171010, 1
GE2, hollych, 1.89800000, 0.87810650, 0.37898740, 1.25709400, -0.05125533, 0
GE2, fespru, 1.65600000, 0.83373310, 0.32355830, 1.15729100, -0.03105034, 0
GE2, brilych, 2.25500000, 0.85175450, 0.31870530, 1.17046000, -0.03255674, 0
GE2, bripru, -1.74800000, 0.88951030, 0.16075050, 1.05026100, -0.05981855, 0
GE2, brilys, 1.58200000, 1.09050890, 0.24496600, 1.33547500, -0.04070531, 0
```

# 1.2b sed $'/[a-z]\{5,\}/d'$ inteff.csv

[Yunfeis-Mac-Pro:Files yunfeiguo\$ sed '/[a-z]\{5,\}/d' inteff.csv SE,ssws,1534.1,3005.86,1328.04,4333.88,-0.302,0 SE,sssb,23375.7,3869.44,2510.24,6379.69,-0.303,1 SE,sswb,270.6,1341.25,1807.93,3149.18,-0.323,0 SE,wssb,45576,6630.44,2313.1,8943.54,-0.268,1 SE,wswb,16267.2,3346.4,1911.01,5257.42,-0.295,1 SE,sbwb,13380.7,4008.27,1829.7,5838,-0.223,1

### 1.2c

sed 's/./\L&/g' inteff.csv > inteff2.csv

[Yunfeis-Mac-Pro:Files yunfeiguo\$ gsed 's/./\L&/g' inteff.csv > inteff2.csv Yunfeis-Mac-Pro:Files vunfeiguo\$ ■

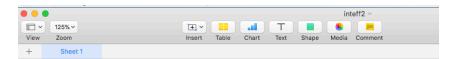


Table 1

experiment	mixture	int	sel	compl	net	oi	signif
ge1	plpru	5.74	0.35	0.87	1.22	1.05	1
ge1	plach	3.5	0.29	0.49	0.78	0.99	1
ge1	plagr	4.01	0.16	1.02	1.19	1.04	1
ge1	pruach	1.7	0.49	1.11	0.59	0.9	0
ge1	pruagr	3.53	0.28	0.7	0.99	0.96	1
ge1	achagr	0.91	0.17	0.34	0.51	0.93	0
se	ssws	1534.1	3005.86	1328.04	4333.88	-0.302	0
se	sssb	23375.7	3869.44	2510.24	6379.69	-0.303	1
se	sswb	270.6	1341.25	1807.93	3149.18	-0.323	0
se	wssb	45576	6630.44	2313.1	8943.54	-0.268	1
se	wswb	16267.2	3346.4	1911.01	5257.42	-0.295	1
se	sbwb	13380.7	4008.27	1829.7	5838	-0.223	1
ge2	holfes	3.448	0.9438944	0.3293109	1.273205	-0.04908214	1
ge2	holbri	3.58	1.0694224	0.2090239	1.278446	-0.06127105	1
ge2	holpru	3.969	1.0414018	0.2403681	1.28177	-0.05896012	1
ge2	hollys	6.771	1.29716	0.2498069	1.546967	-0.04933826	1
ge2	fesbri	4.184	0.8729319	0.3214404	1.194372	-0.02448218	1
ge2	feslych	4.054	0.7523545	0.5080307	1.260385	-0.00280154	1
ge2	feslys	6.471	1.0964593	0.364369	1.460828	-0.00995637	1
ge2	lychpru	3.298	0.799972	0.3770637	1.177036	-0.02814007	1
ge2	lychlys	4.637	1.0729912	0.3721899	1.445181	-0.01427926	1
ge2	prulys	4.724	1.0823695	0.3028857	1.385255	-0.0217101	1
ge2	hollych	1.898	0.8781065	0.3789874	1.257094	-0.05125533	0
ge2	fespru	1.656	0.8337331	0.3235583	1.157291	-0.03105034	0
ge2	brilych	2.255	0.8517545	0.3187053	1.17046	-0.03255674	0
ge2	bripru	-1.748	0.8895103	0.1607505	1.050261	-0.05981855	0
ge2	brilys	1.582	1.0905089	0.244966	1.335475	-0.04070531	0

```
wc -l -w -m alice
[Yunfeis-Mac-Pro:Files yunfeiguo$ wc -l -w -m alice
     3601 26826 148233 alice
Yunfeis-Mac-Pro:Files yunfeiguo$ `
2.1b
cat Alice | tr -cd "[:alpha:]"| wc -m
[Yunfeis-Mac-Pro:Files yunfeiguo$ cat Alice | tr -cd "[:alpha:]"| wc -m
Yunfeis-Mac-Pro:Files yunfeiguo$
2.1c
cat Alice | tr -d "[:alpha:]"| wc -m
[Yunfeis-Mac-Pro:Files yunfeiguo$ cat Alice | tr -d "[:alpha:]"| wc -m
   40543
2.1d
a=$(cat Alice|tr -cd ' '| wc -m)
b=$(cat Alice|tr -d ' '| wc -m)
echo "scale=10;$a/$b"| bc
Yunfeis-Mac-Pro:Files yunfeiguo$ a=$(cat Alice|tr -cd ' '| wc -m)
Yunfeis-Mac-Pro:Files yunfeiguo$ b=$(cat Alice|tr -d ' '| wc -m)
Yunfeis-Mac-Pro:Files yunfeiguo$ echo "scale=10;$a/$b"| bc
.2463991120
Yunfeis-Mac-Pro:Files yunfeiguo$
```

2.1a

```
3.1a
cat country.txt| tail -1| cut -d "," -f1
[Yunfeis-Mac-Pro:Files yunfeiguo$ cat country.txt| tail -1| cut -d "," -f1
'UMI'
3.1b
cut -d "'" -f4 country.txt > temp; sort temp|head -1
[Yunfeis-Mac-Pro:Files yunfeiguo$ gcut -d "'" -f4 country.txt > temp; sort temp|head -1
Afghanistan _____
3.1c
min=$(cat country.txt |sort -nt"," -k7 > temp; cat temp|cut -d "," -
f7|head -1)
a=$(cut -d "," -f7 country.txt >temp; sort -n temp| grep -c "^$min$")
cat country.txt | sort -nt"," -k7 > temp
cut -d "," -f1 temp| head -$a
[Yunfeis-Mac-Pro:Files yunfeiguo$ cat country.txt | gsort -nt"," -k7 > temp
[Yunfeis-Mac-Pro:Files yunfeiguo$ gcut -d "," -f1 temp| head -$a
 'ATA'
'ATF'
'BVT'
'HMD'
'IOT'
'SGS'
Yunfeis-Mac-Pro:Files yunfeiguo$
cut -c32-35 japan.txt>temp; sort temp
Yunfeis-Mac-Pro:Files yunfeiguo$ gcut -c32-35 japan.txt>temp; sort temp
babi
babi
babo
babo
bada
badi
badi
badi
bado
bado
bado
badu
badu
baha
baho
bahu
baka
bake
bake
```

baki

```
cut -c32-35 japan.txt>temp; sort temp| uniq | wc -l
[Yunfeis-Mac-Pro:Files yunfeiguo$ gcut -c32-35 japan.txt>temp; sort temp| uniq | wc -1
3.2c
cut -c1-6 japan.txt>temp; cat temp[tr -d '\n'|sed 's/[[:alpha:]]/&\n/
g'|sort|uniq|wc -l
[Yunfeis-Mac-Pro:Files \ yunfeiguo\ \ gcut -c1-6 \ japan.txt>temp; \ cat \ temp|tr -d \ '\n'|gsed \ 's/[[:alpha:]]/\&\n/g'|sort|uniq|wc -left -d \ '\n'|gsed \ 's/[[:alpha:]]/\&\n/g'|sort|uni
 Yunfeis-Mac-Pro:Files yunfeiguo$
3.2d
awk '\{for(i=1;i<=6;i++)print $i\}' japan.txt| grep '^h.*$'|wc -l
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '{for(i=1;i<=6;i++)print $i}' japan.txt| grep '^h.*$'|wc -l
cut -d ' ' -f1 weblog| sort| uniq| wc -l
[Yunfeis-Mac-Pro:Files yunfeiguo$ gcut -d ' ' -f1 weblog| sort| uniq| wc -l
               123
3.3b
cut -d '"' -f2 weblog| cut -d ' ' -f2| grep '/.\?dwills/'| wc -l
[Yunfeis-Mac-Pro:Files yunfeiguo$ cut -d '"' -f2 weblog| cut -d ' ' -f2| grep '/.\?dwills/'| wc -l
3.3c
cat weblog|grep '/.\?dwills/'| cut -d ' ' -f1| sort | uniq| wc -l
[Yunfeis-Mac-Pro:Files yunfeiguo$ cat weblog|grep '/.\?dwills/'| cut -d ' ' -f1| sort | uniq| wc -1
   20
grep -v 'GET' weblog | cut -d ' ' -f6| tr -d '"'| uniq
[Yunfeis-Mac-Pro:Files yunfeiguo$ grep -v 'GET' weblog | cut -d ' ' -f6| tr -d '"'| uniq;
Yunfeis-Mac-Pro:Files yunfeiguo$
grep -v 'GET' weblog | cut -d ' ' -f1| wc -l
[Yunfeis-Mac-Pro:Files yunfeiguo$ grep -v 'GET' weblog | cut -d ' ' -f1| wc -l
 . 6
```

3.2b

```
3.3e
cat weblog| cut -d ' ' -f10| sort -n| tail -1
[Yunfeis-Mac-Pro:Files yunfeiguo$ cat weblog| cut -d ' ' -f10| sort -n| tail -1
4033024
3.3f
cat weblog | cut -d ' ' -f7,10 | sort -k2 -n | tail -1 | cut -d ' ' -f1 |
sed s/[/]/n/g'|tail -1
\|Yunfeis-Mac-Pro:Files yunfeiguo cat weblog cut -d ' ' -f7,10 sort -k2 -n | tail -1 | cut -d ' ' -f1 | gsed 's/[/]/\n/g'| tail -1 |
4.1a
awk '$5<5000' cars_file.txt
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '$5<5000' cars_file.txt
                  77
                           73
plym
         fury
                                    2500
                  79
                           60
chevy
         nova
                                    3000
                  80
                           50
                                    3500
chevy
         nova
fiat
         600
                  65
                           115
                                    450
toyota tercel 82
                          180
                                   750
chevy
         impala 65
                          85
                                    1550
4.1b
awk '$5<=9000 && $5>=2000' cars file.txt
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '$5<=9000 && $5>=2000' cars_file.txt
           77
                   73
                           2500
plym
       fury
chevy
      nova
             79
                    60
                           3000
      nova
              80
                    50
                           3500
                    30
                           6000
honda accord 81
awk '$3==83 && $4>=20' cars_file.txt
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '$3==83 && $4>=20' cars_file.txt
ford bronco 83
                         25
                                  9500
4.1d
awk '$3>=80 && $3<=89' cars_file.txt
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '$3>=80 && $3<=89' cars_file.txt
ford
        ltd
                83
                        15
                                 10500
chevy
        nova
                80
                        50
                                 3500
honda
        accord 81
                        30
                                 6000
porsche carrera 85
                        40
                                 20000
ford
        thundb 84
                                 17000
                        10
toyota tercel 82
                        180
                                 750
        bronco 83
                        25
                                 9500
```

```
4.1e
awk '{print $1,$5}' cars_file.txt
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '{print $1,$5}' cars_file.txt
plym 2500
chevy 3000
ford 10000
volvo 9850
ford 10500
chevy 3500
fiat 450
honda 6000
porsche 20000
ford 17000
tovota 750
chevy 1550
ford 9500
Yunfeis-Mac-Pro:Files yunfeiguo$
4.1f
awk '$1=="chevy" && $2=="nova" {print $5}' cars_file.txt
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '$1=="chevy" && $2=="nova" {print $5}' cars_file.txt
3500
             4.1a
awk '{print $1}' cars_file.txt| sort| uniq -c
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '{print $1}' cars_file.txt| sort| uniq -c
   3 chevy
   1 fiat
   4 ford
   1 honda
   1 plym
   1 porsche
   1 toyota
1 volvo
               ---
                      . . . . .
```

```
4.1h
Avg:
sum=$(awk '{sum+=$5} END {print sum}' cars_file.txt)
count=$(cat cars_file.txt|wc -l)
echo "scale=10;$sum/$count"| bc
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '{sum+=$5} END {print sum}' cars_file.txt
94600
[Yunfeis-Mac-Pro:Files yunfeiguo$ sum=$(awk '{sum+=$5} END {print sum}' cars_file.txt)
Yunfeis-Mac-Pro:Files yunfeiguo$ echo $sum
[Yunfeis-Mac-Pro:Files yunfeiguo$ count=$(cat cars_file.txt|wc -1)
[Yunfeis-Mac-Pro:Files yunfeiguo$ echo $count
13
[Yunfeis-Mac-Pro:Files yunfeiguo$ echo "scale=10;$sum/$count"| bc
7276.9230769230
Yunfeis-Mac-Pro:Files yunfeiguo$
Min:
awk '{print $5}' cars_file.txt | sort -n| head -1
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '{print $5}' cars_file.txt | sort -n| head -1
450
Max:
awk '{print $5}' cars_file.txt | sort -n| tail -1
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '{print $5}' cars_file.txt | sort -n| tail -1
20000
4.2a
awk '$6=="baba"' japan.txt
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '$6=="baba"' japan.txt
henohe
            99
                   643
                         0.36
                                       baba
 sakoto
            84
                  5307
                         0.02
                                  е
                                       baba
4.2b
cat japan.txt|grep "ba"|awk '$2==62'
[Yunfeis-Mac-Pro:Files yunfeiguo$ cat japan.txt|grep "ba"|awk '$2==62'
 dupoku
          62 16703 0.54
                                   baka
                              u
hobaso
          62
                6710
                      0.01
                                   bera
                               е
 desire
          62
               23785
                        0.2
                              С
                                   bare
peseda
          62
                4182
                      0.79
                                   bake
                              h
           62
                5098
 badeko
                      0.35
                                   zina
                              0
```

4.2c awk '\$3<100 && \$5>="d" && \$5<="m"' japan.txt

```
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '$3<100 && $5>="d" && $5<="m"' japan.txt
benuda
        1
               1 0.6
                        j
                            hezu
ruhipe
        70
               80 0.19
                            moke
                        m
bakipi
        51
               68
                  0.4
                            robo
                            kedo
zetuda
        26
              57 0.45
pamome
       41
              80 0.32 f
                            hibo
              37 0.94 m
       .75
                            ripe
bimipu
```

### 4.2d

awk '\$2>\$3' japan.txt

```
[Yunfeis-Mac-Pro:Files yunfeiguo$ awk '$2>$3' japan.txt
                22 0.94
rekobu
         93
                          s
                              zuti
                   0.56
neboke
         53
                26
                              raka
                          У
                38 0.55
         84
kapeka
                          b
                              nase
pamipo
       82
                36 0.01
                          t
                              rato
        91
pomete
                73 0.29
                              boha
                          X
hedemo
        70
                10 0.33
                              bumo
                          W
bimipu
        75
                37 0.94
                              ripe
                          m
podasa
        74
                35 0.71
                              peme
                          У
bisiti
        76
                62 0.47
                              dero
```

4.2d awk 'NR%100==0' japan.txt

[Yunfeis-	-Mac-	Pro:Fil	es vunf	eia	uo\$ awk	'NR%100==0'	japan.txt
kanahu	28	9477	0.64	u	mobe		,
nahibe	7	13715	0.38	m	topo		
daride	80	28797	0.65	r	meka		
bororu	2	29978	0.81	s	hude		
mebiba	39	29279	0.11	а	nuni		
dokoni	26	7242	0.06	h	dohu		
zinuka	50	23329	0.21	g	koti		
zabaru	3	2931	0.94	y	dipo		
zeposu	56	2453	0.88	ď	daki		
boruso	27	6993	0.14	w	behi		
pisido	86	20415	0.85	у	meku		
dabome	42	25674	0.37	s	suke		
tapahu	82	29411	0.64	u	rira		
benuda	1	1	0.6	j	hezu		
desize	71	4057	0.32	e	manu		
zapupi	49	10737	0.97	s	miri		
pituro	69	14942	0.88	у	nedo		
rehide	92	23813	0.52	u	dase		
pezobo	6	21016	0.62	q	hime		
zazati	76	20743	0.71	S	rota		
tadubi	22	17066	0.69	c	rade		
bimota	53	7141	0.46	z	kede		
nobizo	20	23287	0.29	a	nira		
tibeso	10	3546	0.67	i	zoba		
mumeso	96	12745	0.81	v	pitu		
zukeke	48	5289	0.01	r	siba		
komiti	40	27006	0.68	s	hina		
nebuku	50	6824	0.5	k	dodo		
tiruno	84	10993	0.43	ì	pabu		
rapapi	60	2098	0.69	d	nupo		
demora	25	4867	0.39	w	niso		
tinezu	78	4940	0.75	f	kere		
ditamo	21	12086	0.29	q	medo		
morebu	92	23772	0.95	r	zoru		
heruhe	67	17923	0.49	у	kute		
ripuru	70	30274	0.08	y	zida		
padehu	17	27501	0.73	X	pize		
hatupu	41	6834	0.68	ý	time		
hakomi	83	13182	0.95	s	romi		
niruno	36	22197	0.7	s	zaho		
dahane	79	11903	0.95	d	pasi		
pabemo	74	29888	0.43	×	duti		
tunuso	31	3809	0.54	p	susi		
zihumu	4	2191	0.34	f	hana		
pekoru	24	6442	0.14	k	tiru		
subipi	46	3281	0.86	a	huzo		
kazamu	21	5235	0.29	g	doho		
punepi	82	18220	0.82	e	zite		
tozanu	67	10049	0.61	n	mita		
pusebi	84	8676	0.72	k	depu		
Yunfeis-							
10111013	2100	. 10.111	SS yuiii	o z g i			

cat alice|tr -d "\n"|sed 's/\./\n/g'|sed 's/\?/\n/g'|sed 's/\!/\n/g'| awk 'print length, \$0print length, \$0print length, \$0print length, \$0print length, \$0print length, \$0print length

Yunfeis-Mac-Pro:Files yunfeiguo\$ cat alice|tr -d "\n"|gsed 's/\./\n/g'|gsed 's/\?/\n/g'|gsed 's/\!\/\n/g'|awk '{print length, \$0}'|sort -nr|head -1
906 Hardly knowing what she did, she picked up a little bit ofstick, and held it out to the pupp y; whereupon the puppy jumpedinto the air off all its feet at once, with a yelp of delight, and rus hed at the stick, and made believe to worry it; then Alicedodged behind a great thistle, to keep h erself from being runover; and the moment she appeared on the other side, the puppymade another ru sh at the stick, and tumbled head over heels inits hurry to get hold of it; then Alice, thinking i t was verylike having a game of play with a cart horse, and expecting everymoment to be trampled u nder its feet, ran round the thistleagain; then the puppy began a series of short charges at thest ick, running a very little way forwards each time and a longway back, and barking hoarsely all the while, till at last it satdown a good way off, panting, with its tongue hanging out of itsmouth, and its great eyes half shut

5.2
cat alice|tr -cd '[:alpha:][:space:]'|sed 's/ /\n/g'|sed '/^\$/d'|sort|
uniq -ic|sort -nr|head -5

```
[Yunfeis-Mac-Pro:Files yunfeiguo$ cat alice|tr -cd '[:alpha:][:space:]'|gsed 's/ \\n/g'|gsed '/^$/d'|sort|uni-ic|sort -nr|head -5
1525 the
802 and
725 to
615 a
502 she
```