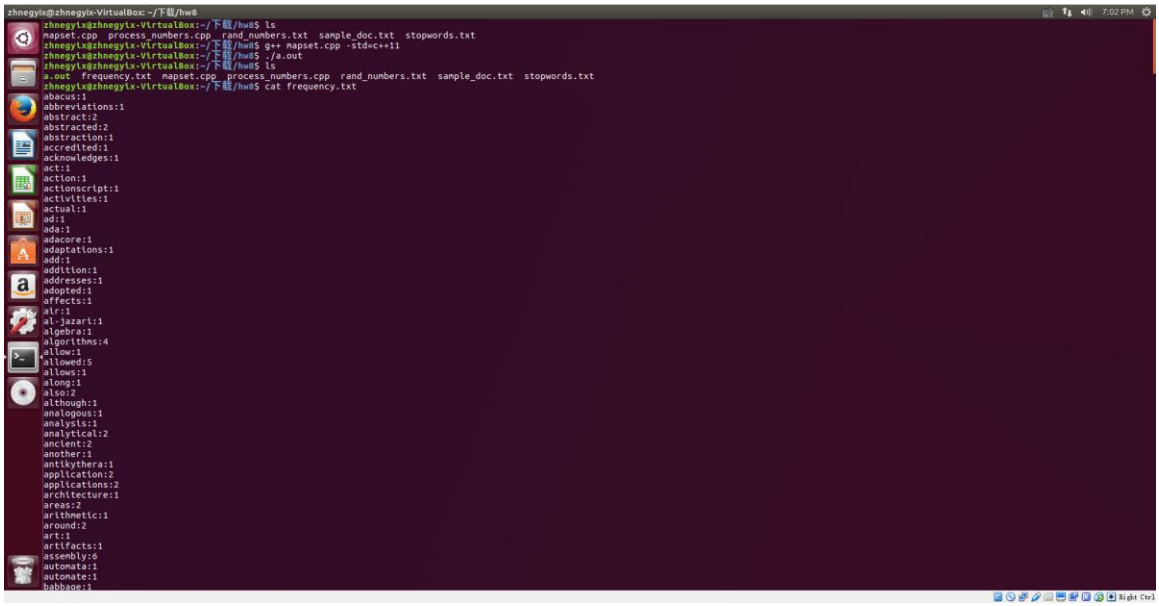
Problem 1


zhnegyix@zhnegyix-VirtualBox: ~/下载/hw8
7:02 PM
zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$ ls
mapset.cpp process_numbers.cpp rand_numbers.txt sample_doc.txt stopwords.txt
zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$ g++ mapset.cpp -std=c++11
zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$ ./a.out
zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$ ls
a.out frequency.txt mapset.cpp process_numbers.cpp rand_numbers.txt sample_doc.txt stopwords.txt
zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$ cat frequency.txt
abacus:1
abbreviations:1
abstract:2
abstracted:2
abstraction:1
accredited:1
acknowledges:1
act:1
action:1
actionscript:1
activities:1
actual:1
ad:1
ada:1
adacore:1
adaptations:1
add:1
addition:1
addresses:1
adopted:1
affects:1
air:1
al-jazari:1
algebra:1
algorithms:4
allow:1
allowed:5
allows:1
along:1
also:2
although:1
analogous:1
analysis:1
analytical:2
ancient:2
another:1
antikythera:1
application:2
applications:2
architecture:1
areas:2
arithmetic:1
around:2
art:1
artifacts:1
assembly:6
automata:1
automate:1
babbage:1
Right Ctrl

Ubuntu [正在运行] - Oracle VM VirtualBox
管理 控制 视图 热键 设备 帮助
zhnegyix@zhnegyix-VirtualBox: ~/下载/hw8
7:02 PM
call:1
called:1
cams:1
card:3
cards:8
career:2
cases:1
certification:1
challenges:1
changes:1
charles:1
china:1
circa:1
clearance:1
cloth:1
cobol:1
code:6
coding:2
cognitive:1
combines:1
commercial:1
commonly:1
community:1
company:1
compiler:1
complicated:1
computation:1
computational:1
compute:1
computer:11
computers:3
computing:2
conceive:1
conception:1
condition:1
configuration:1
considerably:1
considered:2
consistent:1
consumption:1
control:4
convenient:1
converted:1
core:1
corrections:1
correctness:1
cost:1
countries:3
covers:1
craft:1
crafted:1
created:1
criteria:1
critical:1
cultures:1
cycle:1
Right Ctrl

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管理 控制 视图 热键 设备 帮助
zhnegyix@zhnegyix-VirtualBox: ~/下载/hw8
7:10 PM
cultures:1
cycle:1
data:4
dates:1
debatable:1
debate:3
debugging:1
decisions:1
defined:1
derived:1
design:1
develop:1
developed:7
developing:1
development:5
device:2
devices:2
devising:1
different:10
differs:1
directly:2
discarded:1
discipline:4
domain:1
dozens:1
drive:1
drum:2
drummer:1
due:1
early:1
easier:1
easily:1
easy:1
economic:1
editors:1
efficient:2
efficiently:1
eg:4
elementary:1
elements:1
employed:1
engine:5
engineer:1
engineering:4
engineers:1
enough:1
entered:1
entering:3
entirely:1
entities:1
environments:1
era:2
error:2
europe:1
even:1
every:1
Right Ctrl

Ubuntu [正在运行] - Oracle VM VirtualBox
管理 控制 视图 热键 设备 帮助
zhnegyix@zhnegyix-VirtualBox: ~/下载/hw8
7:11 PM
forms:1
formula:2
formulation:1
fortran:3
found:1
foundation:2
founded:1
functional:1
fundamental:1
gears:1
general:3
generating:1
geometry:1
giant:1
given:1
goal:1
good:1
governmentally:1
greater:1
greece:1
habitual:1
hardware:2
haskell:1
herman:1
high:2
high-level:3
higher:1
history:1
hole:1
holes:1
hollerith:2
however:2
human:2
humans:1
hypothesis:1
ibm:3
idea:1
ie:1
illegal:1
implementation:5
importing:1
impractical:1
include:3
including:3
increase:1
increasing:1
increasingly:2
incur:1
india:1
industry:1
inexpensive:1
influences:1
initial:1
input:1
instead:1
institution:1
Right Ctrl

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管理 控制 视图 热键 设备 帮助
zhnegyix@zhnegyix-VirtualBox: ~/下载/hw8
7:11 PM
late:2
later:3
leads:1
leaps:1
learn:1
led:1
less:3
let:1
level:2
levers:1
license:1
licensed:1
licensing:1
likely:1
linguistics:1
list:1
lists:1
little:1
locations:1
logic:1
loom:3
looms:1
lovelace:1
low-level:1
lower:1
lunar-to-solar:1
machine:10
machines:4
made:3
maintaining:1
making:1
management:1
manner:1
many:5
marle:1
mathematician:1
maximum:1
may:2
meant:1
measured:1
mechanical:2
mechanism:2
mechanisms:1
mechanized:1
media:1
medieval:1
medium:1
memory:1
method:1
metonic:1
might:2
model:1
modern:4
mostly:1
much:3
Right Ctrl

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管理 控制 视图 热键 设备 帮助
zhnegyix@zhnegyix-VirtualBox: ~/下载/hw8
7:12 PM
outsourcing:1
overhead:1
painstakingly:1
panel:1
panels:1
paper:3
part:1
particular:2
particularly:2
parts:1
pass:1
past:1
pasteboard:1
pattern:2
patterns:3
pegs:1
percussion:1
perfectly:1
perform:1
performing:1
perl:1
phase:1
php:1
physically:1
placed:1
playing:1
plugboard:1
popular:2
possibility:1
postulates:1
power:1
practical:1
practices:1
predetermined:1
prior:1
problem:2
process:6
processing:3
produce:2
producing:1
profession:1
professional:1
professions:1
program:6
programmable:2
programmed:1
programmer:4
programmers:5
programming:24
programs:10
progressed:1
prone:1
punch:1
punched:7
punching:1
Right Ctrl

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管理 控制 视图 热键 设备 帮助
zhnegyix@zhnegyix-VirtualBox: ~/下载/hw8
7:12 PM
purpose:1
python:1
read:1
readable:1
rebuilt:1
record:2
recording:1
referred:1
regarded:1
regulated:1
related:1
relations:1
relatively:1
replace:1
represented:1
representing:2
require:1
required:1
requirements:1
requires:1
reserved:1
resources:1
rhythms:1
ruby:1
s:3
sapirwhorf:1
science:2
scientist:1
security:1
see:1
seemed:1
self-governed:1
sequence:3
sequentially:1
series:1
services:1
sets:2
settled:1
several:1
shortened:1
sizes:1
small:1
smalltalk:1
software:9
solution:1
solving:1
sometimes:1
sorter:1
source:5
speaker:1
speakers:1
special:1
specialized:1
specific:2
specified:1
specify:2
Right Ctrl

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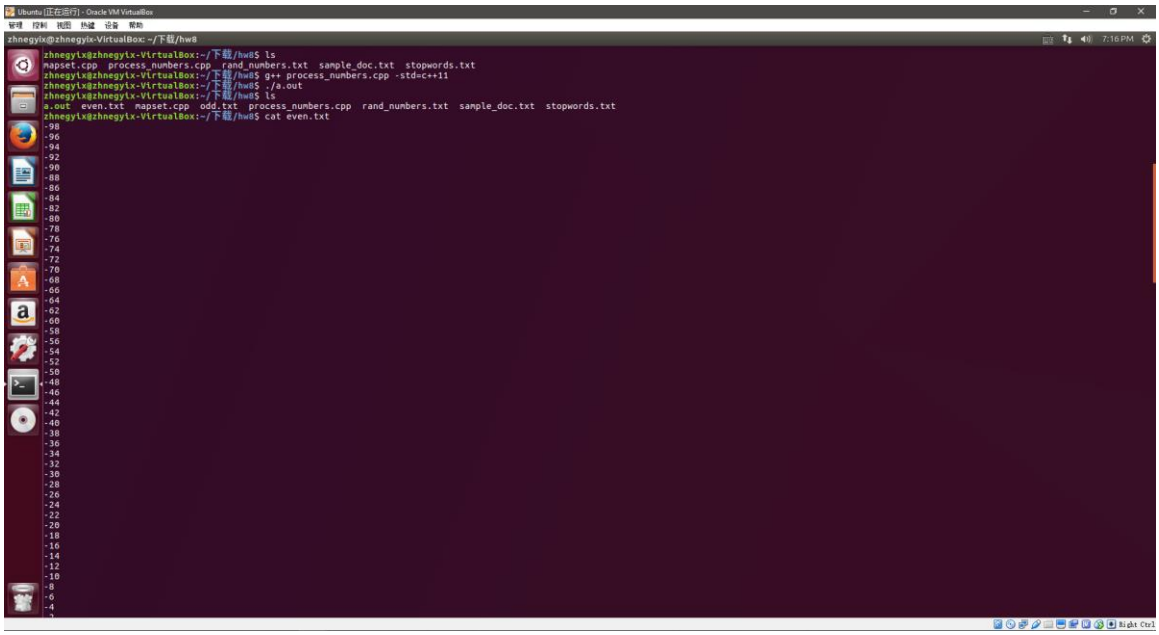
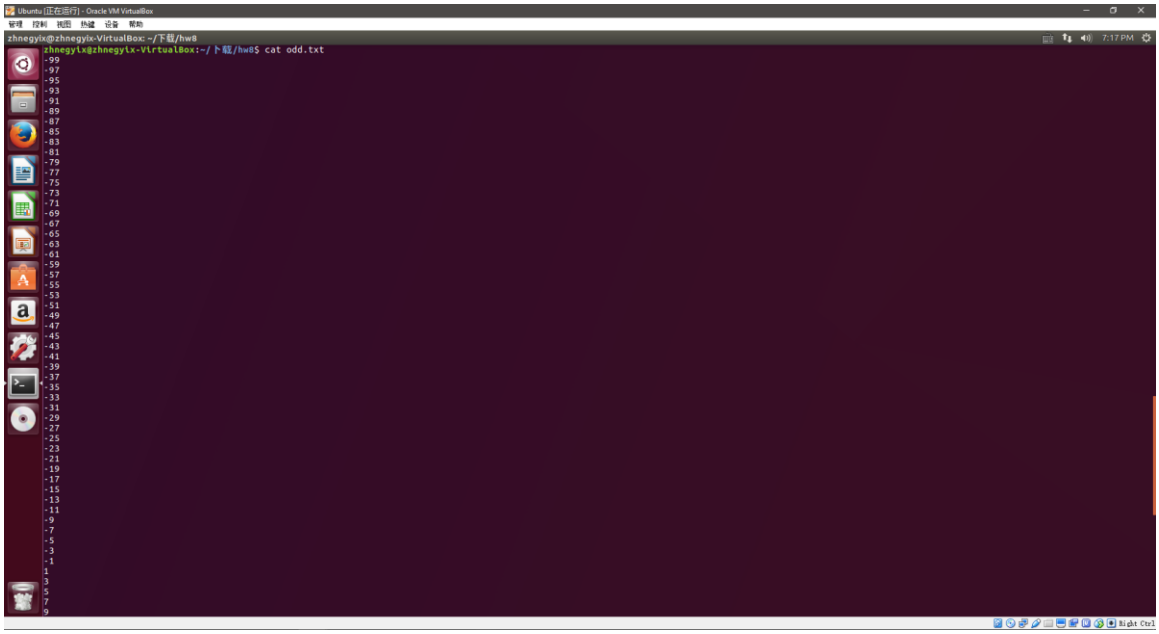
管理 控制 视图 热键 设备 帮助
zhnegyix@zhnegyix-VirtualBox: ~/下载/hw8
7:12 PM
specify:2
specifying:1
speed:2
spoken:1
sql:1
standardized:1
stands:1
states:2
still:3
storage:1
stored:1
strict:1
subject:1
subjects:1
sumeria:1
surrounding:1
susceptible:1
symbolic:1
symbols:1
synthesis:1
system:2
systems:1
tabulating:1
tabulator:2
takes:1
tape:2
target:1
task:2
tasks:1
technical:1
techniques:1
term:2
terminals:1
terms:2
testing:1
tests:1
text:3
theorized:1
things:1
thought:2
thoughts:1
three:1
thus:2
time:2
total:1
tracked:1
translates:1
translation:1
trials:1
trigger:1
turn:1
two:1
type:1
typically:1
typing:1
underlying:1
Right Ctrl

thoughts:1
three:1
thus:2
time:2
total:1
tracked:1
translates:1
translation:1
trials:1
trigger:1
turn:1
two:1
type:1
typically:1
typing:1
underlying:1
understanding:1
unit:2
united:2
upon:1
use:5
used:3
uses:2
using:5
usually:4
utilizing:1
various:2
vary:1
verification:1
visual:1
vital:1
von:1
wage:1
way:1
weaves:1
weaving:1
well:1
whether:1
whole:1
whose:2
widely-used:1
will:1
within:1
without:2
wooden:1
world:3
worlds:1
write:1
writing:3
written:1
wrote:1
x:3
y:3
yield:1
zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$

Problem 2


zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$ ls
mapset.cpp process_numbers.cpp rand_numbers.txt sample_doc.txt stopwords.txt
zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$ g++ process_numbers.cpp -std=c++11
zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$ ./a.out
zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$ ls
a.out even.txt mapset.cpp odd.txt process_numbers.cpp rand_numbers.txt sample_doc.txt stopwords.txt
zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$ cat even.txt
-98
-96
-94
-92
-90
-88
-86
-84
-82
-80
-78
-76
-74
-72
-70
-68
-66
-64
-62
-60
-58
-56
-54
-52
-50
-48
-46
-44
-42
-40
-38
-36
-34
-32
-30
-28
-26
-24
-22
-20
-18
-16
-14
-12
-10
-8
-6
-4

Ubuntu [正在运行] - Oracle VM VirtualBox
管理 控制 视图 热键 设备 帮助
zhnegylx@zhnegylx-VirtualBox: ~/下载/hw8
7:17 PM
-4
-2
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
84
86
88
90
92
94
96
98
100
zhnegylx@zhnegylx-VirtualBox:~/下载/hw8$ cat odd.txt
-99
Right Ctrl


Ubuntu [正在运行] - Oracle VM VirtualBox
管理 控制 视图 热键 设备 帮助
zhnegylx@zhnegylx-VirtualBox: ~/下载/hw8
7:17 PM
zhnegylx@zhnegylx-VirtualBox:~/下载/hw8$ cat odd.txt
-99
-97
-95
-93
-91
-89
-87
-85
-83
-81
-79
-77
-75
-73
-71
-69
-67
-65
-63
-61
-59
-57
-55
-53
-51
-49
-47
-45
-43
-41
-39
-37
-35
-33
-31
-29
-27
-25
-23
-21
-19
-17
-15
-13
-11
-9
-7
-5
-3
-1
1
3
5
7
9
Right Ctrl

Ubuntu [正在运行] - Oracle VM VirtualBox
管理 控制 视图 热键 设备 帮助
zhnegyix@zhnegyix-VirtualBox: ~/下载/hw8
7:18 PM
-7
-5
-3
-1
1
3
5
7
9
11
13
15
17
19
21
23
25
27
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zhnegyix@zhnegyix-VirtualBox:~/下载/hw8$
Right Ctrl