Submitter: dereky1(Yang,Derek)

## Mapset.cpp

```
derekyl@odim:-/45c/hm8

assembly 6
automata 1
automate 1
babbage 1
basic 1
bc 2
became 2
become 1
beginning 1
beginning 1
beginning 1
besides 1
beyond 2
binary 1
build 1
building 1
building 1
building 1
building 1
calculating 1
calculation 1
calculation 2
calculator 1
calculation 2
calculator 1
calculators 2
calculator 1
calculators 2
cards 8
cares 8
cares 2
cares 8
cares 1
card 3
cards 8
cares 1
cards 1
calculation 1
challenges 1
changes 1
c
```

```
derekyl@odin:-/45c/hw8
complicated 1
computation 1
computational 1
compute 1
computer 11
computers 3
computing 2
conceive 1
                                                                                                                                                                                                                                                                                                                                                                     □ ×
```

```
dereky1@odin:~/45c/hw8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            - □ ×
format 1
forms 1
forms 1
forms 1
forms 1
formula 2
formulation 1
fortran 3
found 1
foundation 2
foundation 2
foundation 2
founded 1
functional 1
fundamental 1
gears 1
general 3
generating 1
geometry 1
giant 1
good 1
good 1
governmentally 1
greece 1
habitual 1
hardware 2
habitual 1
hardware 2
habitual 1
herman 1
high 2
high-level 3
high-level 3
high-level 3
high-level 3
high-level 3
higher 1
holes 1
in 1
im 3
idea 1
ie 1
illegal 1
implementation 5
importing 1
impractical 1
include 3
increasing 1
increasingly 2
incur 1
india 1
   dereky1@odin:~/45c/hw8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        - 🗆 X
```

```
🧬 dereky1@odin:∼/45c/hw8
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      dereky Woodin:-/Abc
low-level 1
low-evel 1
lower 1
lunar-to-solar 1
machine 10
machines 4
made 3
maintaining 1
making 1
making 1
management 1
management 1
manner 1
manner 1
many 5
marie 1
mary 1
may 2
mechanisms 1
mechanical 2
mechanisms 1
me
                         dereky1@odin:~/45c/hw8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     - 🗆 X
            oneself 1
ongoing 2
operated 1
operating 1
operating 1
operating 1
operating 2
operation 3
opportunities 1
opposed 1
original 2
output 2
output 2
output 2
output 2
output 1
panel 1
past 1
pattern 2
particularly 2
parts 1
pattern 2
pattern 1
pattern 2
pattern 1
pattern 2
pattern 1
pattern 2
postlated 1
playing 1
plughoard 1
plopular 2
possibility 1
power 1
practical 1
problem 2
process 6
processing 3
produce 2
```

```
🧬 dereky1@odin:∼/45c/hw8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       - 🗆 ×
producing 1
professional 1
professional 1
professional 1
professional 1
professional 1
professional 1
programme 1
programme 2
programmed 1
programmer 3
programmer 3
programmer 3
programmer 1
prone 1
punch 1
punching 1
predad 1
readable 1
recording 1
requited 1
respessed 1
represented 1
represented 1
represented 1
represented 1
represented 1
required 1
required 1
required 1
required 1
required 1
required 1
resources 1
rhythms 1
ruby 1
sapirwhorf 1
science 2
scientist 1
security 1
see 1
security 1
see 1
securices 1
security 1
securics 1
security 1
securics 1
                     뤔 dereky1@odin:∼/45c/hw8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          - 🗆 ×
       sets 2
settled 1
several 1
shortened 1
sizes 1
small 1
small 1
software 9
solution 1
solving 1
sometimes 1
sorter 1
source 5
Speaker 1
special ind 1
special ind 1
specified 1
specified 2
specified 1
specify 2
specify 2
specify 2
specify 1
standardized 1
states 2
still 3
storage 1
stands 1
s
```

```
dereky1@odin:~/45c/hw8
                                                                                                                                                                                                                                                                                                             ×
terminals 1
terms 2
testins 1
texts 1
texts 3
theorized 1
things 1
thought 2
thoughts 1
three 1
thus 2
total 1
translation 1
translation 1
trials 1
trials 1
trials 1
tryping 1
typing 1
underlying 1
understanding 1
understanding 1
unit 2
unit 2
united 2
  terminals 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
visual 1
visual 1
von 1
wage 1
way 1
weaves 1
weaves 1
weaving 1
well 1
whether 1
whole 1
whose 2
widely-used 1
within 1
without 2
     dereky1@odin:~/45c/hw8
                                                                                                                                                                                                                                                                                                     X
   wooden 1
world 3
  worlds 1
would 2
write 1
   writing 3
  written 1
wrote 1
 ж 3
у 1
  yield 1
dereky1@odin 23:01:53 ~/45c/hw8
$
```

## 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
add 1
ada core 1
adaptations 1
add 1
addition 1
addresses 1
adopted 1
```

```
affects 1
air 1
al-jazari 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
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
 automata 1
automate 1
babbage 1
basic 1
bc 2
became 2
become 1
  becoming 1
 beginning 1
bernoulli 1
 besides 1
beyond 2
binary 1
build 1
 building 1
built 1
 c 3 calculate 1
 calculating 1 calculation 1
  calculations 2
  calculator 1
  calculators 1
calculus 1
calendars 1
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
  calculus 1
 cloth 1
cobol 1
code 6
code 6
coding 2
cognitive 1
combines 1
commercial 1
community 1
company 1
compiler 1
complicated 1
computation 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
could 5 countries 3
countries :
covers 1
craft 1
crafted 1
created 1
criteria 1
critical 1
critical 1
cultures 1
cycle 1
data 4
dates 1
debatable 1
debate 3
debugging 1
decisions 1
defined 1
derived 1
design 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
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
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
```

```
evolvable 2 executable 1
 exhaustion 1
 existed 1
 expertise 1
 expressed 1
 extent 2
 fact 1
faster 1
final 1
find 1
first 4
follow 1
force 1
form 3
formal 1
format 1
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
 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
hypothesis 1
i 1
ibm 3
idea 1
ie 1
illegal 1
implementation 5
importing 1
impractical 1
include 3
including 3
increase 1
increasing 1
increasing 1 increasingly 2
incur 1
india 1
industry 1 inexpensive 1 influences 1
 initial 1
input 1
instead 1
institution 1
instruction 2
instructions 7
instruments 2
intent 1 invented 5
 invention 1
 inventions 1
```

```
involves 1
jacquard 3
jacquaru 3
japan 1
java 1
javascript 1
jobs 1
joseph 1
keypunch 1
 knowledge 1
known 2
kurdish 1
known 2
kurdish 1
labor 1
language 16
languages 11
late 2
later 3
leads 1
leaps 1
learn 1
led 1
less 3
let 1
levers 2
levers 1
licensed 1
licensed 1
licensed 1
licensing 1
likely 1
linguistics 1
lists 1
lists 1
lists 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
marie 1
mathematician 1
maximum 1
may 2
meant 1
meant 1
measured 1
mechanical 2
mechanism 2
mechanisms 1
mechanized 1
media 1
medieval 1
medieval 1
memory 1
method 1
method 1
metonic 1
metonic 1
might 2
model 1
modern 4
mostly 1
much 3
musical 1
mutual 1
name 1
 nature 1
necessary 1
need 1
neumann 1
new 1
notation 3
number 2
numbers 2
```

```
numerical 2
objective-c 1
objects 1
occasionally 1
often 4
olympiads 1
one 4
oneself 1
ongoing 2
operated 1
operating 1
operation 2
operations 3
opportunities 1
opposed 1
opposed 1
order 1
organize 1
original 2
output 2
outsourcing 1
overhead 1
overhead 1
painstakingly 1
panel 1
panels 1
paper 3
part 1
particular 2
particularly 2
parts 1
pass 1
pass 1
past 1
pasteboard 1
pattern 2
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
prior 1
problem 2
process 6
processing 3
produce 2
producing 1
profession 1
professions 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
purpose 1
python 1
read 1
readable 1
rebuilt 1
record 2
recording 1
```

referred 1 regarded 1 regulated 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 sapirwhorf 1 science 2 scientist 1 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 sizes 1 small 1 smalltalk 1 software 9 solution 1 solving 1 sometimes 1 sorter 1 source 5 speaker 1 speakers 1 speakers 1 special 1 specialized 1 specific 2 specified 1 specify 2 specifying 1 speed 2 spoken 1 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 sql 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

## Submitter: dereky1(Yang, Derek)

testing 1 tests 1 text 3 theorized 1 things 1 thought 2 thoughts 1 three 1 thus 2 time 2 total 1 tracked 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
united 2
upon 1
use 5
used 3
uses 2
using 5
usually 4
utilizing 1
various 2
vary 1 translates 1 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 whose 2
widely-used 1
within 1
without 2
wooden 1
world 3
worlds 1
would 2
write 1
writing 3
written 1
wrote 1 wrote 1 x 3 y 1 yield 1 even.txt:

-98 -96 -94 -92 -90 -88 -86 -84 -82 -78 -74 -72 -70 Submitter: dereky1(Yang,Derek)

 $\begin{array}{c} -664 \\ -658 \\ -556 \\ -270 \\ -2$ 

Submitter: dereky1(Yang, Derek)

96 98 100

## Odd.txt:

=======end of the write-up===================================