

# CMSC257 Project 2 screenshots

Jordan Dube

## SAMPLE RUN:

```
==11451== Memcheck, a memory error detector
==11451== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==11451== Using Valgrind-3.15.0 and LibVEX; rerun with -h for copyright info
==11451== Command: ./cmc257-s21-p2
==11451==

***** DUBE3Z INBOX *****
***** TOTAL INBOX: 0010 *****

1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: 1

ID  SENDER-----  MM/DD/YYYY  Subject-----
--  - - - - -
00 - asomez@mail.com - 11/20/2020 - Welcome to your
01 - mmartinez@mail.com - 11/30/2020 - Padding out you
02 - dboyte@mail.com - 12/02/2020 - 3rd email!
03 - cbluer@mail.com - 12/08/2020 - 4th email!
04 - cboyte@mail.com - 12/18/2020 - 5th email!
05 - sblack@mail.com - 01/01/2021 - 6th email!
06 - sblack@mail.com - 01/05/2021 - 7th email!
07 - sblack@mail.com - 02/15/2021 - 8th email!
08 - sblack@mail.com - 02/25/2021 - 9th email!
09 - dboyte@mail.com - 03/15/2021 - Last email!

Mailbox sorted by ID
***** DUBE3Z INBOX *****
***** TOTAL INBOX: 0010 *****

1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: 2

dboyte@mail.com - 3rd email!
Email Received on: 12/02/2020

Alright, time for another email for your inbox. Not going too lie, it's a bit of a pain coming up with stuff for these strings. Anyways, have fun with your code!

***** DUBE3Z INBOX *****
***** TOTAL INBOX: 0010 *****

1. Show Inbox
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4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: 3

***** DUBE3Z INBOX *****
***** TOTAL INBOX: 0010 *****

1. Show Inbox
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4. Sort Inbox by ID
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6. Delete
7. Exit Inbox

Enter an option 1-7: 1

ID  SENDER-----  MM/DD/YYYY  Subject-----
--  - - - - -
00 - asomez@mail.com - 11/20/2020 - Welcome to your
03 - cbluer@mail.com - 12/08/2020 - 4th email!
04 - cboyte@mail.com - 12/18/2020 - 5th email!
02 - dboyte@mail.com - 12/02/2020 - 3rd email!
09 - dboyte@mail.com - 03/15/2021 - Last email!
```

```
File Edit Selection View Go Run Terminal Help
p2 [SSH: compile.vcu.edu] - Visual Studio Code

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE
1: valgrind

03 - cbluer@mail.com - 12/08/2020 - 4th email!
04 - cboyle@mail.com - 12/18/2020 - 5th email!
02 - dboyle@mail.com - 12/02/2020 - 3rd email!
09 - dboyle@mail.com - 03/15/2021 - Last email!
01 - mmartinez@mail.com - 11/30/2020 - Padding out you
06 - sblack@mail.com - 01/05/2021 - 7th email!
07 - sblack@mail.com - 02/15/2021 - 8th email!
08 - sblack@mail.com - 02/25/2021 - 9th email!
05 - sblack@mail.com - 01/01/2021 - 6th email!

Mailbox sorted by ID
***** DUBEJZ INBOX *****
***** TOTAL INBOX: 0010 *****

1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: 5

Enter the keyword to search for: oyl

Found email(s):

ID SENDER----- MM/DD/YYYY Subject-----
-- --/--/----
04 - cboyle@mail.com - 12/18/2020 - 5th email!
02 - dboyle@mail.com - 12/02/2020 - 3rd email!
09 - dboyle@mail.com - 03/15/2021 - Last email!

***** DUBEJZ INBOX *****
***** TOTAL INBOX: 0010 *****

1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

SSH: compile.vcu.edu 0 0 0
```

```
File Edit Selection View Go Run Terminal Help
p2 [SSH: compile.vcu.edu] - Visual Studio Code

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE
1: valgrind

3. Sort Inbox by Sender
4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: 5

Enter the keyword to search for: you

Found email(s):

ID SENDER----- MM/DD/YYYY Subject-----
-- --/--/----
00 - asonmez@mail.com - 11/20/2020 - Welcome to your
02 - dboyle@mail.com - 12/02/2020 - 3rd email!
01 - mmartinez@mail.com - 11/30/2020 - Padding out you

***** DUBEJZ INBOX *****
***** TOTAL INBOX: 0010 *****

1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: 6

Enter the ID to delete: 2

Email with ID = 2 is deleted
***** DUBEJZ INBOX *****
***** TOTAL INBOX: 0009 *****

1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: █

SSH: compile.vcu.edu 0 0 0
```

```
File Edit Selection View Go Run Terminal Help p2 [SSH: compile.vcu.edu] - Visual Studio Code
PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE 1: valgrind

Enter an option 1-7: 1

ID SENDER----- MM/DD/YYYY Subject-----
-- --/--/----
00 - asonmez@mail.com - 11/20/2020 - Welcome to your
03 - cbluer@mail.com - 12/08/2020 - 4th email!
04 - cboyle@mail.com - 12/18/2020 - 5th email!
09 - dboyle@mail.com - 03/15/2021 - Last email!
01 - mmartinez@mail.com - 11/30/2020 - Padding out you
06 - sblack@mail.com - 01/05/2021 - 7th email!
07 - sblack@mail.com - 02/15/2021 - 8th email!
08 - sblack@mail.com - 02/25/2021 - 9th email!
05 - sblack@mail.com - 01/01/2021 - 6th email!

Mailbox sorted by ID
***** DUBEJZ INBOX *****
***** TOTAL INBOX: 0009 *****
1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: 5

Enter the keyword to search for: you

Found email(s):

ID SENDER----- MM/DD/YYYY Subject-----
-- --/--/----
00 - asonmez@mail.com - 11/20/2020 - Welcome to your
01 - mmartinez@mail.com - 11/30/2020 - Padding out you

***** DUBEJZ INBOX *****
***** TOTAL INBOX: 0009 *****
1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
4. Sort Inbox by ID
```

```
File Edit Selection View Go Run Terminal Help p2 [SSH: compile.vcu.edu] - Visual Studio Code
PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE 1: valgrind

4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: 4

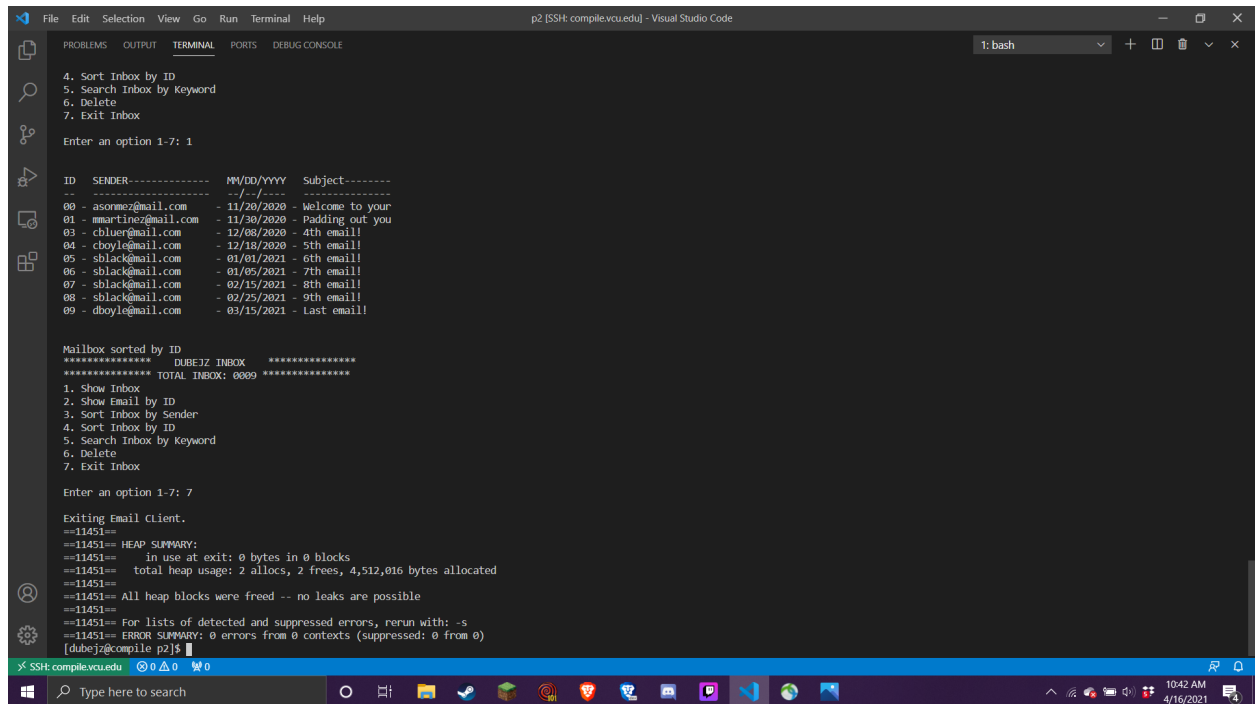
***** DUBEJZ INBOX *****
***** TOTAL INBOX: 0009 *****
1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
4. Sort Inbox by ID
5. Search Inbox by Keyword
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7. Exit Inbox

Enter an option 1-7: 1

ID SENDER----- MM/DD/YYYY Subject-----
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00 - asonmez@mail.com - 11/20/2020 - Welcome to your
01 - mmartinez@mail.com - 11/30/2020 - Padding out you
03 - cbluer@mail.com - 12/08/2020 - 4th email!
04 - cboyle@mail.com - 12/18/2020 - 5th email!
05 - sblack@mail.com - 01/01/2021 - 6th email!
06 - sblack@mail.com - 01/05/2021 - 7th email!
07 - sblack@mail.com - 02/15/2021 - 8th email!
08 - sblack@mail.com - 02/25/2021 - 9th email!
09 - dboyle@mail.com - 03/15/2021 - Last email!

Mailbox sorted by ID
***** DUBEJZ INBOX *****
***** TOTAL INBOX: 0009 *****
1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: 
```



```
File Edit Selection View Go Run Terminal Help
p2 [SSH: compile.vcu.edu] - Visual Studio Code

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE
1: bash

4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: 1

ID  SENDER-----  MM/DD/YYYY  Subject-----
--  -
00 - asonmez@mail.com - 11/20/2020 - Welcome to your
01 - mmartinez@mail.com - 11/30/2020 - Padding out you
03 - cbluer@mail.com - 12/08/2020 - 4th email!
04 - cboyle@mail.com - 12/18/2020 - 5th email!
05 - sblack@mail.com - 01/01/2021 - 6th email!
06 - sblack@mail.com - 01/05/2021 - 7th email!
07 - sblack@mail.com - 02/15/2021 - 8th email!
08 - sblack@mail.com - 02/25/2021 - 9th email!
09 - dboyle@mail.com - 03/15/2021 - Last email!

Mailbox sorted by ID
***** DUBEJZ INBOX *****
***** TOTAL INBOX: 0009 *****

1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
4. Sort Inbox by ID
5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

Enter an option 1-7: 7

Exiting Email Client.
==11451==
==11451== HEAP SUMMARY:
==11451==   in use at exit: 0 bytes in 0 blocks
==11451==   total heap usage: 2 allocs, 2 frees, 4,512,016 bytes allocated
==11451==
==11451== All heap blocks were freed -- no leaks are possible
==11451==
==11451== For lists of detected and suppressed errors, rerun with: -s
==11451== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
[dubejz@compile p2]$
```

Valgrind result at end of the sample run.

Limitations:

- Entering invalid parameters into the create\_email function (such as a string in the day field)
- Entering a non-int into the id field for the showEmailByID or deleteEmailByID functions
- If the user enters an invalid int for the option field (i.e. a string rather than an int, or a value outside of the 7 options)