

Limitations

- Size: my inbox can only handle up to 2000 emails
- Size of variables: the sender and receivers can only handle strings up to 50 characters, the subject can only hold 200 characters and the body can only contain 2000 characters.
- Ability to write an email
- Ability to check the body of an email

```

***** WELKA 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
1
ID   SENDER ----- MM/DD/YY  SUBJECT-----
--   ----- --/--/----
00 - asonmez@mail.com - 11/20/2020 - Welcome to your inbox.
01 - mmartinez@mail.com - 11/30/2020 - Padding out your inbox.
02 - dboyle@mail.com - 12/02/2020 - 3rd email!
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!
***** WELKA INBOX *****
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1. Show Inbox
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5. Search Inbox by Keyword
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7. Exit Inbox
2
Enter the ID of the email you want to read:2
dboyle@mail.com - 3rd email!
Email Recieved on: 12/02/2020***** WELKA 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
3
***** WELKA INBOX *****

```

3

```
***** WELKA INBOX *****
***** Total Inbox: 0010 *****
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1. Show Inbox
2. Show Email by ID
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1

```
ID  SENDER -----  MM/DD/YY  SUBJECT-----
--  -----  --/--/----  -----
00 - asonmez@mail.com - 11/20/2020 - Welcome to your inbox.
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 your inbox.
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!
```

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***** Total Inbox: 0010 *****
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5

Enter the keyword you are searching for: oyl

```
ID  SENDER -----  MM/DD/YY  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!
```

```
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5. Search Inbox by Keyword
6. Delete
7. Exit Inbox

5

Enter the keyword you are searching for: you

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

01 - mmartinez@mail.com - 11/30/2020 - Padding out your inbox.

***** WELKA INBOX *****

***** Total Inbox: 0010 *****

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6

Enter the ID of the e-mail you want to delete: 2

Email with ID = 2 is deleted***** WELKA 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

1

ID	SENDER	MM/DD/YY	SUBJECT
----	--------	----------	---------

00	- asonmez@mail.com - 11/20/2020 - Welcome to your inbox.		
----	--	--	--

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 your inbox.		
----	---	--	--

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!		
----	---	--	--

***** WELKA 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

5

Enter the keyword you are searching for: you

ID	SENDER	MM/DD/YY	SUBJECT
----	--------	----------	---------

00	- asonmez@mail.com - 11/20/2020 - Welcome to your inbox.		
----	--	--	--

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----	---	--	--

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01 - mmartinez@mail.com - 11/30/2020 - Padding out your inbox.

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4

***** WELKA INBOX *****
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00	- asonmez@mail.com	- 11/20/2020	- Welcome to your inbox.
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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!
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***** WELKA INBOX *****
***** Total Inbox: 0009 *****

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7


```
Exiting e-mail client - Good Bye!==38188==
==38188== HEAP SUMMARY:
==38188==    in use at exit: 18,528,016 bytes in 5 blocks
==38188==    total heap usage: 10 allocs, 5 frees, 18,531,108 bytes allocated
==38188==
==38188== 4,632,000 bytes in 1 blocks are possibly lost in loss record 3 of 4
==38188==    at 0x4C29F73: malloc (vg_replace_malloc.c:309)
==38188==    by 0x401112: search_keyword (p2-support.c:118)
==38188==    by 0x40173B: display_inbox_menu (p2-support.c:177)
==38188==    by 0x40080A: main (cmisc257-f21-p2.c:9)
==38188==
==38188== 9,264,000 bytes in 2 blocks are definitely lost in loss record 4 of 4
==38188==    at 0x4C29F73: malloc (vg_replace_malloc.c:309)
==38188==    by 0x401112: search_keyword (p2-support.c:118)
==38188==    by 0x40173B: display_inbox_menu (p2-support.c:177)
==38188==    by 0x40080A: main (cmisc257-f21-p2.c:9)
==38188==
==38188== LEAK SUMMARY:
==38188==    definitely lost: 9,264,000 bytes in 2 blocks
==38188==    indirectly lost: 0 bytes in 0 blocks
==38188==    possibly lost: 4,632,000 bytes in 1 blocks
==38188==    still reachable: 4,632,016 bytes in 2 blocks
==38188==         suppressed: 0 bytes in 0 blocks
==38188== Reachable blocks (those to which a pointer was found) are not shown.
==38188== To see them, rerun with: --leak-check=full --show-leak-kinds=all
==38188==
==38188== Use --track-origins=yes to see where uninitialised values come from
==38188== For lists of detected and suppressed errors, rerun with: -s
==38188== ERROR SUMMARY: 3 errors from 3 contexts (suppressed: 0 from 0)
[welka@compile p2]$
```