

```

[dharamsiss@compile p2]$ valgrind --leak-check=full ./cm5c257-s22-p2
==111237== Memcheck, a memory error detector
==111237== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==111237== Using Valgrind-3.15.0 and LibVEX; rerun with -h for copyright info
==111237== Command: ./cm5c257-s22-p2
==111237==
***** dharamsiss 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 Box

1

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

```

```
***** dharamsiss Inbox *****
***** Total Inbox: 0010 *****
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2

Enter the ID of the email you want to read:

2

mmartinez@mail.com - Padding out your inbox.
Email Recieved on: 11/30/2020

Yet another email just to pad out your inbox, have fun!

```
***** dharamsiss Inbox *****
***** Total Inbox: 0010 *****
```

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3

```
***** dharamsiss Inbox *****
***** Total Inbox: 0010 *****
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--	-----	-----	-----
01	- asonmez@mail.com	- 11/20/2020	- Welcome to your inbox.
04	- cbluer@mail.com	- 12/08/2020	- 4th email!
05	- cboyle@mail.com	- 12/18/2020	- 5th email!
03	- dboyle@mail.com	- 12/02/2020	- 3rd email!
10	- dboyle@mail.com	- 03/15/2021	- Last email!
02	- mmartinez@mail.com	- 11/30/2020	- Padding out your inbox.
07	- sblack@mail.com	- 01/05/2021	- 7th email!
08	- sblack@mail.com	- 02/15/2021	- 8th email!
09	- sblack@mail.com	- 02/25/2021	- 9th email!
06	- sblack@mail.com	- 01/01/2021	- 6th email!

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***** dharamsiss Inbox *****
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5

Enter the keyword you are searching for:

oyl

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

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Enter the keyword you are searching for:

you

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

```
***** dharamsiss 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

```
***** dharamsiss Inbox *****
***** Total Inbox: 0009 *****
```

1. Show Inbox
2. Show Email by ID
3. Sort Inbox by Sender
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ID	SENDER-----	MM/DD/YYYY	Subject-----
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01	- asonmez@mail.com	- 11/20/2020	- Welcome to your inbox.
05	- cboyle@mail.com	- 12/18/2020	- 5th email!
03	- dboyle@mail.com	- 12/02/2020	- 3rd email!
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09	- sblack@mail.com	- 02/25/2021	- 9th email!
06	- sblack@mail.com	- 01/01/2021	- 6th email!

```
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***** Total Inbox: 0009 *****
```

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5

Enter the keyword you are searching for:
you

ID	SENDER-----	MM/DD/YYYY	Subject-----
--	-----	-----	-----
01	- asonmez@mail.com	- 11/20/2020	- Welcome to your inbox.
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4

```
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07	- sblack@mail.com	- 01/05/2021	- 7th email!
08	- sblack@mail.com	- 02/15/2021	- 8th email!
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7

Exiting e-mail client - Good Bye!

```
==111237==
==111237== HEAP SUMMARY:
==111237==     in use at exit: 4,632,000 bytes in 1 blocks
==111237==   total heap usage: 8 allocs, 7 frees, 18,528,064 bytes allocated
==111237==
==111237== 4,632,000 bytes in 1 blocks are definitely lost in loss record 1 of 1
==111237==    at 0x4C29F73: malloc (vg_replace_malloc.c:309)
==111237==    by 0x400842: initialize (p2-support.c:23)
==111237==    by 0x401947: main (cmisc257-s22-p2.c:18)
==111237==
==111237== LEAK SUMMARY:
==111237==    definitely lost: 4,632,000 bytes in 1 blocks
==111237==    indirectly lost: 0 bytes in 0 blocks
==111237==    possibly lost: 0 bytes in 0 blocks
==111237==    still reachable: 0 bytes in 0 blocks
==111237==           suppressed: 0 bytes in 0 blocks
==111237==
==111237== For lists of detected and suppressed errors, rerun with: -s
==111237== ERROR SUMMARY: 1 errors from 1 contexts (suppressed: 0 from 0)
```