

```

ravish@ravish-VirtualBox:~/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/make$ make valgrind
valgrind --leak-check=full -v ../bin/exe
==5067== Memcheck, a memory error detector
==5067== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==5067== Using Valgrind-3.15.0-608cb11914-20190413 and LibVEX; rerun with -h for copyright info
==5067== Command: ../bin/exe
==5067==
--5067-- Valgrind options:
--5067--   --leak-check=full
--5067--   -v
--5067-- Contents of /proc/version:
--5067--   Linux version 5.13.0-30-generic (buildd@lcy02-amd64-003) (gcc (Ubuntu 9.3.0-17ubuntu1~20.04) 9.3.0, GNU ld (GNU Binutils for Ubuntu) 2.34) #33~20.04.1-Ubuntu SMP Mon Feb 7 14:25:10 UTC 2022
--5067--
--5067-- Arch and hwcaps: AMD64, LittleEndian, amd64-cx16-lzcnt-rdtscp-sse3-ssse3-avx-avx2-rdrand
--5067-- Page sizes: currently 4096, max supported 4096
--5067-- Valgrind library directory: /usr/lib/x86_64-linux-gnu/valgrind
--5067-- Reading syms from /home/ravish/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/bin/exe
--5067-- Reading syms from /usr/lib/x86_64-linux-gnu/ld-2.31.so
--5067--   Considering /usr/lib/x86_64-linux-gnu/ld-2.31.so ..
--5067--   .. CRC mismatch (computed 0306b78c wanted 8d362b37)
--5067--   Considering /lib/x86_64-linux-gnu/ld-2.31.so ..
--5067--   .. CRC mismatch (computed 0306b78c wanted 8d362b37)
--5067--   Considering /usr/lib/debug/lib/x86_64-linux-gnu/ld-2.31.so ..
--5067--   .. CRC is valid
--5067-- Reading syms from /usr/lib/x86_64-linux-gnu/valgrind/memcheck-amd64-linux
--5067--   object doesn't have a symbol table
--5067--   object doesn't have a dynamic symbol table
--5067-- Scheduler: using generic scheduler lock implementation.
--5067-- Reading suppressions file: /usr/lib/x86_64-linux-gnu/valgrind/default.supp
==5067== embedded gdbserver: reading from /tmp/vgdb-pipe-from-vgdb-to-5067-by-ravish-on-???
==5067== embedded gdbserver: writing to /tmp/vgdb-pipe-to-vgdb-from-5067-by-ravish-on-???
==5067== embedded gdbserver: shared mem /tmp/vgdb-pipe-shared-mem-vgdb-5067-by-ravish-on-???
==5067==
==5067== TO CONTROL THIS PROCESS USING vgdb (which you probably
==5067== don't want to do, unless you know exactly what you're doing,
==5067== or are doing some strange experiment):
==5067==   /usr/lib/x86_64-linux-gnu/valgrind/../../bin/vgdb --pid=5067 ...command...
==5067==
==5067== TO DEBUG THIS PROCESS USING GDB: start GDB like this
==5067==   /path/to/gdb ../bin/exe
==5067== and then give GDB the following command
==5067==   target remote | /usr/lib/x86_64-linux-gnu/valgrind/../../bin/vgdb --pid=5067
==5067== --pid is optional if only one valgrind process is running
==5067==
--5067-- REDIR: 0x4022e10 (ld-linux-x86-64.so.2:strlen) redirected to 0x580c9ce2 (???)
--5067-- REDIR: 0x4022be0 (ld-linux-x86-64.so.2:index) redirected to 0x580c9cfc (???)
--5067-- Reading syms from /usr/lib/x86_64-linux-gnu/valgrind/vgpreload_core-amd64-linux.so

```

```
--5198-- REDIR: 0x49e4020 (libc.so.6: __strcpy_avx2) redirected to 0x4831090 (strcpy)
--5198-- REDIR: 0x49e2ff0 (libc.so.6: __strchr_avx2) redirected to 0x483ebf0 (index)
--5198-- REDIR: 0x49e3aa0 (libc.so.6: __strcat_avx2) redirected to 0x483ec20 (strcat)
```

-----  
Welcome to Local Search Engine(LSE)

- 
1. Search by word/sentence
  2. Search by filename
  3. Open file with absolute path
  4. Quit
- 

Choose an option(1-4):1

Enter search string/word:

Local

-----

Do you want to search at any specific locations?(y/n)

y

Please provide path

/home/ravish/Desktop

-----

Searching..

```
--5198-- REDIR: 0x4916410 (libc.so.6: __strstr_sse2_unaligned) redirected to 0x4843c20 (strstr)
```

```
--5198-- REDIR: 0x49de9b0 (libc.so.6: __strspn_sse42) redirected to 0x4843ef0 (strspn)
```

```
--5198-- REDIR: 0x49de730 (libc.so.6: __strcspn_sse42) redirected to 0x4843e10 (strcspn)
```

File 0 --> file2\_1.txt path:[/home/ravish/Desktop/file2\_1.txt]

File 1 --> function.h path:[/home/ravish/Desktop/Local\_Search\_Engine\_15\_03\_2022\_final/Local\_Search\_Engine/inc/function.h]

File 2 --> testfunction.c path:[/home/ravish/Desktop/Local\_Search\_Engine\_15\_03\_2022\_final/Local\_Search\_Engine/test/testfunction.c]

File 3 --> found.c path:[/home/ravish/Desktop/Local\_Search\_Engine\_15\_03\_2022\_final/Local\_Search\_Engine/src/found.c]

File 4 --> function\_definition.c path:[/home/ravish/Desktop/Local\_Search\_Engine\_15\_03\_2022\_final/Local\_Search\_Engine/src/function\_definition.c]

File 5 --> file2.txt path:[/home/ravish/Desktop/Local\_Search\_Engine\_15\_03\_2022\_final/Local\_Search\_Engine/src/text/file2.txt]

File 6 --> testfunction.c path:[/home/ravish/Desktop/Local\_Search\_Engine/test/testfunction.c]

File 7 --> function.h path:[/home/ravish/Desktop/Local\_Search\_Engine/include/function.h]

File 8 --> found.c path:[/home/ravish/Desktop/Local\_Search\_Engine/source/found.c]

File 9 --> function\_definition.c path:[/home/ravish/Desktop/Local\_Search\_Engine/source/function\_definition.c]

File 10 --> file2.txt path:[/home/ravish/Desktop/Local\_Search\_Engine/source/text/file2.txt]

-----

do you want to open any file!!(y/n)

y

11 file(s) found

-----

Select the file number which you want to open

Please enter file index number

0

```
File 3 --> found.c path:[/home/ravish/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/src/found.c]
File 4 --> function_definition.c path:[/home/ravish/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/src/function_definition.c]
File 5 --> file2.txt path:[/home/ravish/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/src/text/file2.txt]
File 6 --> testfunction.c path:[/home/ravish/Desktop/Local_Search_Engine/test/testfunction.c]
File 7 --> function.h path:[/home/ravish/Desktop/Local_Search_Engine/include/function.h]
File 8 --> found.c path:[/home/ravish/Desktop/Local_Search_Engine/source/found.c]
File 9 --> function_definition.c path:[/home/ravish/Desktop/Local_Search_Engine/source/function_definition.c]
File 10 --> file2.txt path:[/home/ravish/Desktop/Local_Search_Engine/source/text/file2.txt]
```

```
-----
do you want to open any file!!(y/n)
```

y

```
11 file(s) found
```

```
-----
Select the file number which you want to open
```

```
Please enter file index number
```

0

```
-----
File opened!
```

```
-----
This is some info about Local file search
```

```
-----
Do you want to open other file?(y/n)n
```

```
-----
Welcome to Local Search Engine(LSE)
```

- ```
-----
1. Search by word/sentence
2. Search by filename
3. Open file with absolute path
4. Quit
-----
```

```
Choose an option(1-4):4
```

```
--5198-- Discarding syms at 0x4e535c0-0x4e59a1c in /usr/lib/x86_64-linux-gnu/libnss_files-2.31.so (have_dinfo 1)
```

```
==5198==
```

```
==5198== HEAP SUMMARY:
```

```
==5198==      in use at exit: 0 bytes in 0 blocks
```

```
==5198==    total heap usage: 230 allocs, 230 frees, 1,563,896 bytes allocated
```

```
==5198==
```

```
==5198== All heap blocks were freed -- no leaks are possible
```

```
==5198==
```

```
==5198== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```

```
ravish@ravish-VirtualBox:~/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/make$
```



```

1. Search by word/sentence
2. Search by filename
3. Open file with absolute path
4. Quit
-----
Choose an option(1-4):1

Enter search string/word:
team
-----
Do you want to search at any specific locations?(y/n)
n
Searching..
/home/ravish/
--5210-- REDIR: 0x4916410 (libc.so.6: __strstr_sse2_unaligned) redirected to 0x4843c20 (strstr)
--5210-- REDIR: 0x49de9b0 (libc.so.6: __strspn_sse42) redirected to 0x4843ef0 (strspn)
--5210-- REDIR: 0x49de730 (libc.so.6: __strcspn_sse42) redirected to 0x4843e10 (strcspn)
File 0 --> file3.txt path:[/home/ravish/Local_Search_Engine_15_03_2022/Local_Search_Engine/src/text/file3.txt]
File 1 --> file3.txt path:[/home/ravish/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/src/text/file3.txt]
File 2 --> file3.txt path:[/home/ravish/Desktop/Local_Search_Engine/source/text/file3.txt]
File 3 --> file3_1.txt path:[/home/ravish/Desktop/file3_1.txt]
-----
do you want to open any file!!(y/n)
2
Invalid choice!!
-----
Welcome to Local Search Engine(LSE)
-----
1. Search by word/sentence
2. Search by filename
3. Open file with absolute path
4. Quit
-----
Choose an option(1-4):4

--5210-- Discarding syms at 0x4e535c0-0x4e59a1c in /usr/lib/x86_64-linux-gnu/libnss_files-2.31.so (have_dinfo 1)
==5210==
==5210== HEAP SUMMARY:
==5210==    in use at exit: 0 bytes in 0 blocks
==5210== total heap usage: 327 allocs, 327 frees, 2,973,066 bytes allocated
==5210==
==5210== All heap blocks were freed -- no leaks are possible
==5210==
==5210== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
ravish@ravish-VirtualBox: ~/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/make$

```

```
-----
Welcome to Local Search Engine(LSE)
-----
```

1. Search by word/sentence
2. Search by filename
3. Open file with absolute path
4. Quit

```
-----
Choose an option(1-4):1
```

```
Enter search string/word:
```

```
team
```

```
-----
Do you want to search at any specific locations?(y/n)
```

```
n
```

```
Searching..
```

```
/home/ravish/
```

```
--5228-- REDIR: 0x4916410 (libc.so.6:__strstr_sse2_unaligned) redirected to 0x4843c20 (strstr)
```

```
--5228-- REDIR: 0x49de9b0 (libc.so.6:__strspn_sse42) redirected to 0x4843ef0 (strspn)
```

```
--5228-- REDIR: 0x49de730 (libc.so.6:__strcspn_sse42) redirected to 0x4843e10 (strcspn)
```

```
File 0 --> file3.txt path:[/home/ravish/Local_Search_Engine_15_03_2022/Local_Search_Engine/src/text/file3.txt]
```

```
File 1 --> file3.txt path:[/home/ravish/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/src/text/file3.txt]
```

```
File 2 --> file3.txt path:[/home/ravish/Desktop/Local_Search_Engine/source/text/file3.txt]
```

```
File 3 --> file3_1.txt path:[/home/ravish/Desktop/file3_1.txt]
```

```
-----
do you want to open any file!!(y/n)
```

```
y
```

```
4 file(s) found
```

```
-----
Select the file number which you want to open
```

```
Please enter file index number
```

```
2
```

```
-----
File opened!
```

```
-----
This is our team.
```

```
-----
Do you want to open other file?(y/n)n
```

```
-----
Welcome to Local Search Engine(LSE)
-----
```

```
/home/ravish/
--5228-- REDIR: 0x4916410 (libc.so.6:__strstr_sse2_unaligned) redirected to 0x4843c20 (strstr)
--5228-- REDIR: 0x49de9b0 (libc.so.6:__strspn_sse42) redirected to 0x4843ef0 (strspn)
--5228-- REDIR: 0x49de730 (libc.so.6:__strcspn_sse42) redirected to 0x4843e10 (strcspn)
File 0 --> file3.txt path:[/home/ravish/Local_Search_Engine_15_03_2022/Local_Search_Engine/src/text/file3.txt]
File 1 --> file3.txt path:[/home/ravish/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/src/text/file3.txt]
File 2 --> file3.txt path:[/home/ravish/Desktop/Local_Search_Engine/source/text/file3.txt]
File 3 --> file3_1.txt path:[/home/ravish/Desktop/file3_1.txt]
-----
do you want to open any file!!(y/n)
y

4 file(s) found

-----
Select the file number which you want to open
Please enter file index number
2
-----
File opened!

-----
This is our team.

-----
Do you want to open other file?(y/n)n
-----
Welcome to Local Search Engine(LSE)

-----
1. Search by word/sentence
2. Search by filename
3. Open file with absolute path
4. Quit
-----
Choose an option(1-4):4

--5228-- Discarding syms at 0x4e535c0-0x4e59a1c in /usr/lib/x86_64-linux-gnu/libnss_files-2.31.so (have_dinfo 1)
==5228==
==5228== HEAP SUMMARY:
==5228==    in use at exit: 0 bytes in 0 blocks
==5228==   total heap usage: 329 allocs, 329 frees, 2,977,634 bytes allocated
==5228==
==5228== All heap blocks were freed -- no leaks are possible
==5228==
==5228== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
ravish@ravish-VirtualBox:~/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/make$
```

```
-----  
Welcome to Local Search Engine(LSE)  
-----
```

1. Search by word/sentence
2. Search by filename
3. Open file with absolute path
4. Quit

```
-----  
Choose an option(1-4):2
```

```
Enter filename to be searched:
```

```
file88.txt
```

```
Searching file88.txt
```

```
-----  
Do you want to provide any absolute directory path?(y/n)
```

```
n
```

```
--5232-- REDIR: 0x4916410 (libc.so.6:__strstr_sse2_unaligned) redirected to 0x4843c20 (strstr)
```

```
--5232-- REDIR: 0x49de9b0 (libc.so.6:__strspn_sse42) redirected to 0x4843ef0 (strspn)
```

```
--5232-- REDIR: 0x49de730 (libc.so.6:__strcspn_sse42) redirected to 0x4843e10 (strcspn)
```

```
File 0 --> file88.txt path:[/home/ravish/file88.txt]
```

```
-----  
do you want to open any file!!(y/n)
```

```
y
```

```
1 file(s) found
```

```
-----  
Select the file number which you want to open
```

```
Please enter file index number
```

```
0
```

```
-----  
File opened!
```

```
-----  
This is Shailesh!
```

```
-----  
Do you want to open other file?(y/n)n
```

```
-----  
Welcome to Local Search Engine(LSE)  
-----
```

1. Search by word/sentence
2. Search by filename



```
-----
Do you want to provide any absolute directory path?(y/n)
n
--5232-- REDIR: 0x4916410 (libc.so.6:__strstr_sse2_unaligned) redirected to 0x4843c20 (strstr)
--5232-- REDIR: 0x49de9b0 (libc.so.6:__strspn_sse42) redirected to 0x4843ef0 (strspn)
--5232-- REDIR: 0x49de730 (libc.so.6:__strcspn_sse42) redirected to 0x4843e10 (strcspn)
File 0 --> file88.txt path:[/home/ravish/file88.txt]
-----
do you want to open any file!!(y/n)
y

1 file(s) found

-----
Select the file number which you want to open
Please enter file index number
0
-----
File opened!

-----
This is Shallesh!

-----
Do you want to open other file?(y/n)n
-----
Welcome to Local Search Engine(LSE)

-----
1. Search by word/sentence
2. Search by filename
3. Open file with absolute path
4. Quit
-----
Choose an option(1-4):4

--5232-- Discarding syms at 0x4e535c0-0x4e59a1c in /usr/lib/x86_64-linux-gnu/libnss_files-2.31.so (have_dinfo 1)
==5232==
==5232== HEAP SUMMARY:
==5232==    in use at exit: 0 bytes in 0 blocks
==5232==   total heap usage: 241 allocs, 241 frees, 2,786,980 bytes allocated
==5232==
==5232== All heap blocks were freed -- no leaks are possible
==5232==
==5232== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
ravish@ravish-VirtualBox:~/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/make$
```



```
--5245-- REDIR: 0x49e3aa0 (libc.so.6:__strcat_avx2) redirected to 0x483ec20 (strcat)
```

```
-----  
Welcome to Local Search Engine(LSE)
```

- ```
-----  
1. Search by word/sentence  
2. Search by filename  
3. Open file with absolute path  
4. Quit  
-----
```

```
Choose an option(1-4):2
```

```
Enter filename to be searched:
```

```
file4_1.txt
```

```
Searching file4_1.txt
```

```
-----  
Do you want to provide any absolute directory path?(y/n)
```

```
y
```

```
Enter absolute path:
```

```
$/home/ravish/Desktop
```

```
-----  
--5245-- REDIR: 0x4916410 (libc.so.6:__strstr_sse2_unaligned) redirected to 0x4843c20 (strstr)
```

```
--5245-- REDIR: 0x49de9b0 (libc.so.6:__strspn_sse42) redirected to 0x4843ef0 (strspn)
```

```
--5245-- REDIR: 0x49de730 (libc.so.6:__strcspn_sse42) redirected to 0x4843e10 (strcspn)
```

```
File 0 --> file4_1.txt path:[/home/ravish/Desktop/file4_1.txt]
```

```
-----  
do you want to open any file!!(y/n)
```

```
y
```

```
1 file(s) found
```

```
-----  
Select the file number which you want to open
```

```
Please enter file index number
```

```
0
```

```
-----  
File opened!
```

```
-----  
Hello Peers ...We the capgemini
```

```
-----  
Do you want to open other file?(y/n)n
```

```
-----  
Welcome to Local Search Engine(LSE)
```

```

Enter absolute path:
$/home/ravish/Desktop

-----
--5245-- REDIR: 0x4916410 (libc.so.6:__strsr_sse2_unaligned) redirected to 0x4843c20 (strsr)
--5245-- REDIR: 0x49de9b0 (libc.so.6:__strspn_sse42) redirected to 0x4843ef0 (strspn)
--5245-- REDIR: 0x49de730 (libc.so.6:__strcspn_sse42) redirected to 0x4843e10 (strcspn)
File 0 --> file4_1.txt path:[/home/ravish/Desktop/file4_1.txt]
-----
do you want to open any file!!(y/n)
y

1 file(s) found

-----
Select the file number which you want to open
Please enter file index number
0
-----
File opened!

-----
Hello Peers ...We the capgemini
-----
Do you want to open other file?(y/n)n
-----
Welcome to Local Search Engine(LSE)

-----
1. Search by word/sentence
2. Search by filename
3. Open file with absolute path
4. Quit
-----
Choose an option(1-4):4

--5245-- Discarding syms at 0x4e535c0-0x4e59a1c in /usr/lib/x86_64-linux-gnu/libnss_files-2.31.so (have_dinfo 1)
==5245==
==5245== HEAP SUMMARY:
==5245==   in use at exit: 0 bytes in 0 blocks
==5245==   total heap usage: 156 allocs, 156 frees, 1,429,340 bytes allocated
==5245==
==5245== All heap blocks were freed -- no leaks are possible
==5245==
==5245== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
ravish@ravish-VirtualBox:~/Desktop/Local_Search_Engine_15_03_2022_final/Local_Search_Engine/make$

```

4. Quit

Choose an option(1-4):

Invalid choice please select among(1-4) only..

Welcome to Local Search Engine(LSE)

1. Search by word/sentence
2. Search by filename
3. Open file with absolute path
4. Quit

Choose an option(1-4):3

Enter absolute path to the file:

\$:/home/ravish/Desktop/testing1.txt

File opened!

Hello! This file is for testing purpose.

Using valgrind

Checking for memory errors.

Welcome to Local Search Engine(LSE)

1. Search by word/sentence
2. Search by filename
3. Open file with absolute path
4. Quit

Choose an option(1-4):4

--5250-- Discarding syms at 0x4e535c0-0x4e59a1c in /usr/lib/x86\_64-linux-gnu/libnss\_files-2.31.so (have\_dinfo 1)

==5250==

==5250== HEAP SUMMARY:

==5250== in use at exit: 0 bytes in 0 blocks

==5250== total heap usage: 49 allocs, 49 frees, 19,234 bytes allocated

==5250==

==5250== All heap blocks were freed -- no leaks are possible

==5250==

==5250== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)

ravish@ravish-VirtualBox:~/Desktop/Local\_Search\_Engine\_15\_03\_2022\_final/Local\_Search\_Engine/make\$