## Assignment-4

NAME: E. SHYAM ROLL NO: 422144 SECTION - A

```
19
                prev = temp;
(gdb) print temp->data
$1 = 1
(gdb) next
20
                temp = temp->next;
(gdb) next
           while (temp->data != key) {
18
(gdb) print temp->data
S2 = 2
(gdb) next
19
                prev = temp;
(gdb) next
20
                temp = temp->next;
(gdb) next
18
           while (temp->data != key) {
(gdb) next
19
                prev = temp;
(gdb) next
20
                temp = temp->next;
(gdb) next
18
           while (temp->data != key) {
(gdb) next
19
                prev = temp;
(gdb) next
20
                temp = temp->next;
(gdb) next
18
           while (temp->data != key) {
(gdb) next
19
                prev = temp;
(gdb) next
20
                temp = temp->next;
(gdb) next
           while (temp->data != key) {
18
(gdb) next
Program received signal SIGSEGV, Segmentation fault.
0x000055555555500e in deleteNode (head=0x7fffffffdaf0, key=6) at linkedlist.c:18
18
           while (temp->data != key) {
(gdb) next
Program terminated with signal SIGSEGV, Segmentation fault.
The program no longer exists.
(qdb) continue
The program is not being run.
(gdb)
```

```
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
<a href="http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/>">http://www.gnu.org/software/gdb/bugs/</a>
Find the GDB manual and other documentation resources online at:
        <a href="http://www.gnu.org/software/gdb/documentation/">http://www.gnu.org/software/gdb/documentation/>.</a>
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from ./a.out...
(gdb) run
Starting program: /home/student/Desktop/a.out
Program received signal SIGSEGV, Segmentation fault.
0x000055555555520e in deleteNode (head=0x7fffffffdaf0, key=6) at linkedlist.c:18
                         while (temp->data != key) {
18
(gdb) list
                         if (temp != NULL && temp->data == key) {
13
                                  *head = temp->next;
14
15
                                  free(temp);
16
                                  return;
17
                         while (temp->data != key) {
18
                                  prev = temp;
19
20
                                  temp = temp->next;
21
                         if (temp == NULL)
22
(gdb) break 11
Breakpoint 1 at 0x5555555551a9: file linkedlist.c, line 11.
(gdb) run
The program being debugged has been started already.
Start it from the beginning? (y or n) y
Starting program: /home/student/Desktop/a.out
Breakpoint 1, deleteNode (head=0x55555555555268 <printList+43>, key=0) at linkedlist.c:11
                void deleteNode(struct Node** head, int key) {
11
(gdb) print head->data
Cannot access memory at address 0x8408b48f8458b48
(qdb) print (*head)->next
Cannot access memory at address 0x8408b48f8458b50
(gdb) next
                         struct Node* temp = *head, *prev;
12
(gdb) next
                         if (temp != NULL && temp->data == key) {
13
(gdb) next
                         while (temp->data != key) {
18
```

```
19
               prev = temp;
(qdb) print temp->data
$1 = 1
(qdb) next
20
                temp = temp->next;
(gdb) next
18
           while (temp->data != key) {
(gdb) print temp->data
52 = 2
(gdb) next
19
                prev = temp;
(gdb) next
20
                temp = temp->next;
(gdb) next
18
           while (temp->data != key) {
(gdb) next
19
                prev = temp;
(gdb) next
20
                temp = temp->next;
(gdb) next
           while (temp->data != key) {
18
(gdb) next
19
                prev = temp:
(gdb) next
20
                temp = temp->next:
(gdb) next
18
           while (temp->data != key) {
(gdb) next
19
                prev = temp;
(gdb) next
20
                temp = temp->next;
(gdb) next
18
           while (temp->data != key) {
(gdb) next
Program received signal SIGSEGV, Segmentation fault.
0x000055555555520e in deleteNode (head=0x7fffffffdaf0, key=6) at linkedlist.c:18
18
           while (temp->data != key) {
(gdb) next
Program terminated with signal SIGSEGV, Segmentation fault.
The program no longer exists.
(gdb) continue
The program is not being run.
(gdb)
```

```
(hase) student@ai_HP_ProDesk_600_G4_MT:~/Deskton$ "odb linkedlist c"
adb linkedlist.c: command not found
(hase) student@ai-HP-Propesk-600-G4-MT:-/DesktopS adb linkedlist.c
GNU adb (Ubuntu 9.2-Oubuntu1~20.04.1) 9.2
Copyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <a href="http://gnu.org/licenses/gpl.html">http://gnu.org/licenses/gpl.html</a>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.
This GDB was configured as "x86 64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>.
Find the GDB manual and other documentation resources online at:
   <http://www.gnu.org/software/gdb/documentation/>.
For help, type "help".
Type "apropos word" to search for commands related to "word"...
"/home/student/Desktop/linkedlist.c": not in executable format: file format not recognized
(odb) break 5
No symbol table is loaded. Use the "file" command.
(adb) break main
No symbol table is loaded. Use the "file" command.
Make breakpoint pending on future shared library load? (v or [n]) n
(qdb) break deleteNode
No symbol table is loaded. Use the "file" command.
Make breakpoint pending on future shared library load? (v or [n]) n
(adb) list
No symbol table is loaded. Use the "file" command.
(gdb) ./a.out
Undefined command: ".". Try "help".
(qdb) /a.out
Undefined command: "". Try "help".
(qdb) a
Ambiquous command "a": actions. add-auto-load-safe-path. add-auto-load-scripts-directorv. add-inferior...
(gdb) run
Starting program:
No executable file specified.
Use the "file" or "exec-file" command.
(adb) quit
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ gcc linkedlist.c
(base) student@ai-HP-ProDesk-600-G4-MT:~/DesktopS acc -a linkedlist.c
(base) student@ai-HP-ProDesk-600-G4-MT:~/DesktopS adb ./a.out
GNU adb (Ubuntu 9.2-Oubuntu1~20.04.1) 9.2
Copyright (C) 2020 Free Software Foundation, Inc.
license GPLv3+: GNU GPL version 3 or later shttp://gnu.org/licenses/gpl html>
```