

```
(gdb) next
19         prev = temp;
(gdb) next
20         temp = temp->next;
(gdb) next

Breakpoint 1, deleteNode (head=0x7fffffffda0, key=6) at linkedlist.c:18
18         while (temp->data != key) {
(gdb) continue
Continuing.

Breakpoint 1, deleteNode (head=0x7fffffffda0, key=6) at linkedlist.c:18
18         while (temp->data != key) {
(gdb) continue
Continuing.

Breakpoint 1, deleteNode (head=0x7fffffffda0, key=6) at linkedlist.c:18
18         while (temp->data != key) {
(gdb) continue
Continuing.

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18         while (temp->data != key) {
(gdb) continue
Continuing.

Breakpoint 1, deleteNode (head=0x7fffffffda0, key=6) at linkedlist.c:18
18         while (temp->data != key) {
(gdb) continue
Continuing.

Program received signal SIGSEGV, Segmentation fault.
0x00005555555520e in deleteNode (head=0x7fffffffda0, key=6)
    at linkedlist.c:18
18         while (temp->data != key) {
(gdb) continue
Continuing.

Program terminated with signal SIGSEGV, Segmentation fault.
The program no longer exists.
(gdb) continue
The program is not being run.
(gdb) continue
The program is not being run.
(gdb) █
```



```
Program received signal SIGSEGV, Segmentation fault.  
0x00005555555520e in deleteNode (head=0x7fffffffda0, key=6)  
  at linkedlist.c:18
```

```
18      while (temp->data != key) {  
(gdb) list
```

```
13      if (temp != NULL && temp->data == key) {  
14          *head = temp->next;  
15          free(temp);  
16          return;  
17      }
```

```
18      while (temp->data != key) {  
19          prev = temp;  
20          temp = temp->next;  
21      }
```

```
22      if (temp == NULL)  
(gdb) break 18
```

```
Breakpoint 1 at 0x5555555520a: file linkedlist.c, line 18.
```

```
(gdb) break 17
```

```
Note: breakpoint 1 also set at pc 0x5555555520a.
```

```
Breakpoint 2 at 0x5555555520a: file linkedlist.c, line 18.
```

```
(gdb) break 18
```

```
Note: breakpoints 1 and 2 also set at pc 0x5555555520a.
```

```
Breakpoint 3 at 0x5555555520a: file linkedlist.c, line 18.
```

```
(gdb) break 22
```

```
Breakpoint 4 at 0x55555555215: file linkedlist.c, line 22.
```

```
(gdb) run
```

```
The program being debugged has been started already.
```

```
Start it from the beginning? (y or n) n
```

```
Program not restarted.
```

```
(gdb) run
```

```
The program being debugged has been started already.
```

```
Start it from the beginning? (y or n) y
```

```
Starting program: /home/student/Desktop/example_gdb
```

```
Breakpoint 1, deleteNode (head=0x7fffffffda0, key=6) at linkedlist.c:18
```

```
18      while (temp->data != key) {  
(gdb) next
```

```
19          prev = temp;  
(gdb) next
```

```
20          temp = temp->next;  
(gdb) next
```

```
Breakpoint 1, deleteNode (head=0x7fffffffda0, key=6) at linkedlist.c:18
```

```
18      while (temp->data != key) {  
(gdb) continue
```

```
Continuing.
```



```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls
422157      Q2_sender.class
622136      Q2_sender.java
622225      'Screenshot from 2024-03-13 16-26-19.png'
a.out       'Screenshot from 2024-03-13 16-26-45.png'
bin         'Screenshot from 2024-03-13 16-27-19.png'
ClientChat.class 'Screenshot from 2024-03-13 16-27-32.png'
ClientChat.java  Serverchat.class
gbd.sh          Serverchat.java
linkedlist.c     Sliding.class
linkedlist.s     Sliding.java
output          Sliding_reciver.class
Q2_client.class Sliding_reciver.java
Q2_client.java  unix-lab
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ gcc -g -o example_gdb linkedlist.c
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ gdb example_gdb
GNU gdb (Ubuntu 9.2-0ubuntu1~20.04.1) 9.2
Copyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
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"...
Reading symbols from example_gdb...
(gdb) run
Starting program: /home/student/Desktop/example_gdb

Program received signal SIGSEGV, Segmentation fault.
0x000055555555520e in deleteNode (head=0x7fffffffdafo, key=6)
    at linkedlist.c:18
18      while (temp->data != key) {
(gdb) list
13      if (temp != NULL && temp->data == key) {
14          *head = temp->next;
15          free(temp);
16          return;
17      }
18      while (temp->data != key) {
```