## Bst\_seg execution screenshots

```
pavan422178@pavan422178-VirtualBox:-/Desktop/422178_shell_Script/LAB6$ gcc -g bst_seg.c
pavan422178@pavan422178-VirtualBox:-/Desktop/422178_shell_Script/LAB6$ gcc -g bst_seg.c
gavan422178@pavan422178-VirtualBox:-/Desktop/422178_shell_Script/LAB6$ ./a.out

Give number of nodes in binary search tree : 5
Enter node value: 3
Enter node value: 4
Enter node value: 1
Enter node value: 5
Enter node value: 5
Enter node value: 2
To find sucessor of : 4
Segmentation fault (core dumped)
pavan422178@pavan422178-VirtualBox:-/Desktop/422178_shell_Script/LAB6$
```

```
pavan422178@pavan422178-VirtualBox:-/Desktop/422178_shell_Script/LAB6 pavan422178@pavan422178_VirtualBox:-/Desktop/422178_shell_Script/LAB6 gdb ./a.out
ONU gdb (Ubhutu 12.1-gbuhutu1-22.04) 12.1
Copyright (C) 2002 Free Software Foundation, Inc.
License GPU-31: CMU GPU version 3 or later shttp://gnu.org/licenses/gpl.html>
This is free software; you are free to change and redistribute it.
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payan422178@payan422178-VirtualBox: ~/Desktop/422178 shell Script/LAB6
Dump of assembler code for function main:
0x0000555555555390 <+0>: endbr64
0x0000555555555390 <+0>: push %rbp
0x000055555555395 <+5>: mov %rsp,%rbp
0x000055555555395 <+6>: sub $0x20,%rsp
0x000055555555390 <+12>: mov %fs:0x28,%rax
0x000055555555395 <+21>: mov %rax,-0x8(%rbp)
0x000055555555339 <+2>: xor %eax,%eax
0x0000555555555395 <+27>: lea 0xc5e(%rip),%rax
0x0000555555555395 <+27>: lea 0xc5e(%rip),%rax
                                                              ab <+27:

b2 <+342:

b5 <+37>:

ba <+42>:

b6 <+47>:

c3 <+51>:

c4 <+54>:

c4 <+64>:

d5 <+69>:

d6 <+74>:
                                                                                             mov
mov
call
lea
mov
lea
                                                                                                                      %rax,%rdi
$0x0,%eax
                                                                                                                       -0x1c(%rbp),%rax
                                                                                                                     %rax,%rsi
0xc71(%rip),%rax
                                                                                               mov
mov
call
                                                                                                                       %rax,%rdi
$0x0,%eax
                                                                                                                     0x555555555000 <__isoc99_scanf@plt>

$0x0, 0x10(%rbp)

0x555555555424 <main+148>

0x556(%rip),%rax # 0x5555556041
                                     55555553da <+74>:

55555553da <+74>:

55555553e2 <+82>:

55555553e4 <+84>:

55555553e6 <+94>:
                                                                                               movq
jmp
lea
                                                                                              mov
mov
call
lea
mov
lea
mov
mov
call
                                                                                                                      %rax,%rdi
$0x0,%eax
                                                                                                                       -0x18(%rbp),%rax

%rax %cc:
                                                    553f3 <+99>:
                                                  5553f8 <+104>:
5553fc <+108>:
                                                                                                                      %rax,%rst
%rax,%rst
%rax,%rst
%rax,%rst
%rax,%rst
$0x0,%eax
                                                 55553ff <+111>:
5555406 <+118>:
5555409 <+121>:
                                                                                                                    0x555555550b0 <_isoc99_scanf@plt>

-0x18(%rbp),%edx

-0x10(%rbp),%rax

%edx,%esi

%rax,%rdi
                                                                  <+126>:
<+131>:
<+134>:
                                                                                                mov
lea
                                                                                               mov
mov
call
                                                                   <+138>:
                                                                    <+140>:
<+143>:
     0x000055555555424 <+148: mov -0x1c(%rbp),%eax 0x000055555555424 <+151>: lea -0x1(%rax),%edx 0x000055555555424 <+151>: lea -0x1(%rax),%edx 0x000055555555424 <+154>: mov %edx,-0x1c(%rbp) --Type <RET> for more, q to quit, c to continue without paging--
```

```
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Enter node value: 3
Enter node value: 5
Enter node value: 5
Enter node value: 1
Enter node value: 1
Enter node value: 2
To find sucessor of : 4
Successor: 5
pavan422178@pavan422178-VirtualBox:~/Desktop/422178_shell_Script/LAB6$
```