```
Breakpoint 2, 0x00005555555555824 in phase_5 ()
(gdb) disas
Dump of assembler code for function phase_5:
                    <+0>:
                              endbr64
                    <+4>:
                              push
                                    %rbx
                     <+5>:
                                     $0x10,%rsp
                              sub
                     <+9>:
                                     %rdi,%rbx
                              mov
                     <+12>:
                                     %fs:0x28,%rax
                              mov
                                     %rax,0x8(%rsp)
                     <+21>:
                              mov
                                     %eax,%eax
                     <+26>:
                              xor
                                                  <string_length>
String length
<phase_5+123>
                     <+28>:
                             call
                     <+33>:
                              cmp
                                     $0x6,%eax
                                                                                         ojoscx will Point to a
                     <+36>:
                             jne
                     <+38>:
                              mov
                                                                                            place in memory
                                     0x197a(%rip),%rcx
                     <+43>:
                                                                    555571d0 <array.0>
                                                                                                that gives an array of characters
                              lea
                     <+50>:
                              movzbl (%rbx, %rax,1), %edx
and $0xf, %edx
                              movzbl (%rcx,%rdx,1),%edx ;
                     <+54>:
                     <+57>:
                     <+61>:
                                    %dl,0x1(%rsp,%rax,1)
                     <+65>:
                              add
                                     $0x1,%rax
                                                                                       are 1 byte, so we use b)
                     <+69>:
                              cmp
                                     $0x6,%rax
                                                                            (# Chars
                                                                                                   maduler SAFOTV6Y |
                     <+73>:
                              jne
                                    $0x0,0x7(%rsp) MONE OF IN Edx
0x1(%rsp),%rdi
continue without paging—
0x1926(%rin) %rei
                                                                                                                            and other
                     <+75>:
                              movb
                                                                                       Contains
                                                                                                                                Stuff
                    <+80>:
                              lea
  Type <RET> for more, q to quit, c to
                                                                                     the word
vils"
                                                                                                     16 Characters
                                                                               Stores
                              lea
                                    0x1926(%rip),%rsi
                     <+85>:
                                                27 <strings_not_equal>
                                                                               "devils"
(out input must
                     <+92>:
                              call
                                                                                                      (0-15)
                     <+97>:
                              test
                                    %eax, %eax
                     <+99>:
                              jne
                                                 6 <phase 5+130>
                                                                                       now give
                                    0x8(%rsp),%rax
                     <+101>:
                              mov
                     <+106>:
                                    %fs:0x28.%rax
                                                                                       this)
                              sub
                     <+115>:
                                                ad <phase_5+137>
                              ine
                                                                                                     <+117>:
                              add
                                     $0x10,%rsp
                     <+121>:
                                    %rbx
                              pop
                     <+122>:
                              ret
                                     0x55555555560f <explode_bomb>
0x555555555684a cplode_bomb>
                     <+123>:
                              call
                                                                                                                      Answel
                     <+128>:
                              jmp
                                                                                                     601009
                                                                                                                                  5= 3
                     <+130>:
                              call
                     <+135>:
                              jmp
                                           55555889 <phase_5+101>
                                                                                                                                  r = 2
                    <+137>:
                                                                                                                                 9=1
End of assembler dump.
                                                                                                                                 P = 0
                                                                                                   somein
                                                                                                                                 0= 15
                                   4 5 came out in gordx
                                                                                                                                 n = 14
                                                                                          0x 3fd59e
                                                                                                                                m= 13
                                          before this and instruction
                                                                                                                                 1 = 12
                                                                                                                                K = 11
                                                                                          X10 315135 9 14
                                             to be 0x73 or 115.
                                                                                                                                j = 10
                                                                                                                                i = 9
                                    Y After the and, gordx
                                                                                                                                h = 8
                                                                                                                               9 = 7
                                         turns into 3
                                                                                                                               F = 6
                                                                                                                              e = 5
                                   Y with the o, goldx
                                                                                                                              1 = 4
                                                                                                                             C = 3
                                                                                                                             q = 1
                                    Y with the M, goldx turns
                                          into d
```