Source Code Samples - FizzBuzz

1 Introduction

When you apply for a job, companies will sometimes ask to see projects and software source code that you have written. This is the source code for a demo of the game FizzBuzz written in various programming languages. It illustrates basic iteration and conditional statements.

How does FizzBuzz work?

Output the numbers from 1 to 100.

- 1. If the number is divisible by 3, display the word "FIZZ".
- 2. If the number is divisible by 5, display the word "BUZZ".
- 3. If the number is divisible by both 3 and 5, display the word "FIZZBUZZ".
- 4. If the number is NOT divisible by either 3 or 5, display the original number.

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2 Ada

```
Ada
```

```
-- Ada, which first appeared in 1980, is a strongly typed language which
     evolved from Pascal and other languages. Ada was originally used

    in embedded system programming. It is used for safety critical
    development such as aviation and aerospace. Avionics software
    development sometimes uses Ada in conjunction with DO-178B "Software

     Considerations in Airborne Systems and Equipment Certification" ( 1992 ) or the
     later DO-178C ( 2011 ) to maintain product safety. Ada was named after Ada
-- Lovelace (1815-1852).
-- This code sample was compiled using the GNAT Compiler ( x86_64-linux-gnu-gcc-9 ),
-- which is part of the GNU Compiler Collection (GCC). The executable version of the
-- software was created using GNATMAKE ( x86_64-linux-gnu-gnatmake-9 ).
      These tools were available online at
                  https://onecompiler.com/ada
with
Ada.Text_IO,
Ada.Command_Line;
use
Ada.Text_IO,
Ada.Command_Line;
procedure Main is
     count: Integer := 0;
begin
      if(Argument_Count > 0) then
    Ada.Text_IO.Put_Line ("FizzBuzz:");
                   Ada.Text_IO.Put_Line ("Output the numbers 1 to 100.");
Ada.Text_IO.Put_Line ("Output the number is divisible by 3, output FIZZ.");
Ada.Text_IO.Put_Line ("If the number is divisible by 5, output BUZZ.");
Ada.Text_IO.Put_Line ("If the number is divisible by both 3 and 5, output FIZZBUZZ.");
      else
                        Argument_Count = 0
                   Ada.Text_IO.Put_Line ("FizzBuzz");
Ada.Text_IO.Put_Line ("For help, type FizzBuzz -h.");
Ada.Text_IO.Put_Line ("");
Ada.Text_IO.Put_Line ("");
                   Ada.Text_IO.Put_Line ("FizzBuzz results:");
                   for count in 1 .. 100 loop
    Ada.Text_IO.Put ("The count is " & Integer'Image(count) & " ");
                             if count mod 3 = 0 then
                                                                         -- divisible by 3
                                      Ada.Text_IO.Put ("FIZZ");
                                 end if;
                             if count mod 5 = 0 then
                                                                      -- divisible by 5
                                     Ada.Text_IO.Put ("BUZZ");
                             Ada.Text_IO.Put_Line ("");
                       end loop;
          end if; -- Argument_Count = 0
          Ada.Text_IO.Put_Line ("End of program.");
  end Main;
```

3 C

```
#include <stdio.h>
void main(int argc, char* argv[])
    if(argc > 1) {
   printf ("FizzBuzz:\n");
   printf ("Output the numbers 1 to 100.\n");
   printf ("If the number is divisible by 3, output FIZZ.\n");
   printf ("If the number is divisible by 5, output BUZZ.\n");
   printf ("If the number is divisible by both 3 and 5, output FIZZBUZZ.\n");
}
     else
          printf ("FizzBuzz\n");
printf ("For help, type FizzBuzz -h.\n");
printf ("\n");
printf ("FizzBuzz results:\n");
          for (int count = 1; count <= 100; count++) {</pre>
                printf ("The count is %d ", count);
               if(count % 3 == 0) {
   printf ("FIZZ");
                                                           // divisible by 3
               if(count % 5 == 0) {
   printf ("BUZZ");
                                                           // divisible by 5
               printf ("\n");
                // end for loop
          }
          // end
                         else
     printf ("End of program.\n");
                            main
             end
}
```

}

4 C++

```
#include <iostream>
int main(int argc, char* argv[]) {
      if(argc > 1) {
    std::cout << "FizzBuzz:\n";
    std::cout << "Output the numbers 1 to 100.\n";
    std::cout << "If the number is divisible by 3, output FIZZ.\n";
    std::cout << "If the number is divisible by 5, output BUZZ.\n";
    std::cout << "If the number is divisible by both 3 and 5, output FIZZBUZZ.\n";
}</pre>
      }
else
             std::cout << "FizzBuzz\n";</pre>
             std::cout << "Fizzbuzz\n",
std::cout << "For help, type FizzBuzz -h.\n";
std::cout << "\n";
             std::cout << "FizzBuzz results:\n";
             for (int count = 1; count <= 100; count++) {</pre>
                    std::cout << "The count is " << count << " ";</pre>
                   if(count % 3 == 0) {    // divisible by 3
    std::cout << "FIZZ";</pre>
                   if(count % 5 == 0) {    // divisible by 5
    std::cout << "BUZZ";</pre>
                   std::cout << "\n";
                   // end for loop
             // end else
      std::cout << "End of program.\n";</pre>
      return 0;
      // end
                          main
```

5 C#

```
class FizzBuzz
    static void Main(string[] args) {
           if(args.Length > 0) {
               Console.WriteLine("FizzBuzz:");
Console.WriteLine("Output the numbers 1 to 100.");
Console.WriteLine("If the number is divisible by 3, output FIZZ.");
Console.WriteLine("If the number is divisible by 5, output BUZZ.");
Console.WriteLine("If the number is divisible by both 3 and 5, output FIZZBUZZ.");
           }
else
               Console.WriteLine("FizzBuzz");
Console.WriteLine("For help, type FizzBuzz -h.");
                Console.WriteLine();
                Console.WriteLine("FizzBuzz results:");
                for (int count = 1; count <= 100; count++) {</pre>
                    Console.Write("The count is " +
   count.ToString() + " ");
                    if(count % 3 == 0) {    // divisible by 3
    Console.Write("FIZZ");
                    if(count % 5 == 0) {
   Console.Write("BUZZ");
                                                          // divisible by 5
                    Console.WriteLine();
                    // end for loop
                // end else
           Console.WriteLine("End of program.");
                            void Main
         // end
    // end
                         class FizzBuzz
```

6 Java

```
public class FizzBuzz {
    public static void main(String[] args) {
         if(args.length > 0) {
    System.out.println("FizzBuzz:");
    System.out.println("Output the numbers 1 to 100.");
    System.out.println("If the number is divisible by 3, output FIZZ.");
    System.out.println("If the number is divisible by 5, output BUZZ.");
    System.out.println("If the number is divisible by both 3 and 5, output FIZZBUZZ.");
}
          élse
               System.out.println("FizzBuzz");
System.out.println("For help, type FizzBuzz -h.");
               System.out.println();
System.out.println("FizzBuzz results:");
               for (int count = 1; count <= 100; count++) {
                    System.out.print("The count is " +
    Integer.toString(count) + " ");
                    if(count % 3 == 0) { // divisible by 3
    System.out.print("FIZZ");
                    if(count % 5 == 0) { //
   System.out.print("BUZZ");
                                                              // divisible by 5
                    System.out.println();
                    // end for loop
               System.out.println("End of program.");
               // end else
         }
         // end
                              void main
    }
    // end class FizzBuzz
```

7 JavaScript

```
var text2display = "";
                     // counter fom 1 to 100
var counter= 0;
var divisibleBy3 = false;
                                 // variable used to improve code readability
var divisibleBy5 = false;
                                 // variable used to improve code readability
// begin building the text to display
text2display =
"Results of the code execution." +
"<br><";
// Set up the loop
for (counter = 1; counter <= 100; counter++) {</pre>
   divisibleBy3 = false;
                                // initialize vars to false
   divisibleBy5 = false;
   // display the count
   text2display = text2display +
"The count is " + counter;
   // is the count divisible by 3?
   if ( (counter%3) === 0 )
      divisibleBy3 = true;
   }
   // is the count divisible by 5?
   if ( (counter%5) === 0 )
      divisibleBy5 = true;
   // count is divisible by BOTH 3 and 5
if ( divisibleBy3 && divisibleBy5 ) {
   // Start divisible by both 3 and 5
      // output the string FIZZBUZZ
      text2display = text2display +
      '<b>' +
      "FIZZBUZZ" +
       '</b>';
      // End divisible by both 3 and 5
   // count is divisible by 3 only
   if ( divisibleBy3 && !divisibleBy5 ) {
    // Start divisible by 3 only
      // output the string FIZZ
      text2display = text2display +
      '<b>' +
"FIZZ" +
       '</b>';
      // End divisible by 3 only
```

```
// count is divisible by 5 only
if ( !divisibleBy3 && divisibleBy5 ) {
    // Start divisible by 5 only

    // output the string BUZZ
    text2display = text2display +
    ' ' ' +
    "BUZZ" +
    '</b>';

    // End divisible by 5 only
}

// terminate the line of text
    text2display = text2display +
    "<br>";

    // end for loop
}

// terminate the line of text
    text2display = text2display +
    "<br>";

// display the text
document.getElementById("textOutput").innerHTML =
text2display + '<br>';
```

8 Pascal

```
The Pascal programming language was created in the 1970s by Niklaus Wirth, who passed away January 01, 2024. Before the
creation of Pascal, languages such as BASIC allowed the use of the
GOTO statement. This meant that program execution could jump
with almost no restrictions to any place within the code. This could
result in what people called "spagnetti code", which was difficult to
read and maintain.
Pascal was an attempt to add logical structure to the software of the
1970s. It became very popular in the 1980s with the release of Borland's
Turbo Pascal for computers compatible with the IBM Personal Computer.
Pascal predated Object-Oriented Programming, although in the 1980s a version called Object Pascal was adopted by Apple Computer. Support for Objects was added to Turbo Pascal in the late 1980s. Borland Delphi, which is still used today, also included support for Objects.
This code sample was compiled using the
          Free Pascal Compiler version 3.2.2 (x86_64),
available at
          www.freepascal.org
Free Pascal supports its own version of Object Pascal, as well as Turbo Pascal /
Borland Pascal and Borland (Embarcadero) Delphi, among others.
program fizzBuzz(input, output, stdErr);
uses sysUtils;
   count : integer;
begin
        (* Main *)
     if(paramCount() > 0) then
         begin
                writeLn('FizzBuzz:');
writeLn('Output the numbers 1 to 100.');
                writeLn('If the number is divisible by 3, output FIZZ.');
writeLn('If the number is divisible by 5, output BUZZ.');
writeLn('If the number is divisible by both 3 and 5, output FIZZBUZZ.');
          end
                  (* paramCount > 0 *)
                     (* paramCount = 0 *)
          begin
                writeLn('FizzBuzz');
writeLn('For help, type FizzBuzz -h.');
                writeLn();
writeLn('FizzBuzz results:');
                for count := 1 to 100 do
                    begin
                        write('The count is ', inttostr( count ), ' ');
                        if(count mod 3 = 0) then
                                                             (* divisible by 3 *)
                            begin
                               write('FIZZ');
                            end;
                        if(count mod 5 = 0) then
                                                            (* divisible by 5 *)
                            begin
                               write('BUZZ');
                            end;
                        writeLn();
                    end; (* end
                                         for loop *)
                     (* paramCount = 0 *)
           end;
     writeLn('End of program.');
 end.
          (* Main *)
```

9 PHP

Python 10

```
import sys
if len(sys.argv) > 1:
    print("FizzBuzz:")
    print("Output the numbers 1 to 100.")
    print("If the number is divisible by 3, output FIZZ.")
    print("If the number is divisible by 5, output BUZZ.")
    print("If the number is divisible by both 3 and 5, output FIZZBUZZ.")
else:
         print("FizzBuzz")
print("For help, type FizzBuzz -h.")
         print()
print("FizzBuzz results:")
         print()
         # divisible by 3
if count % 3 == 0:
                   print("FIZZ", end = "")
              # divisible by 5
if count % 5 == 0:
    print("BUZZ", end = "")
              print()
print("End of program.")
```

11 Rust

```
// This code sample was written using the
// Rust Playground ( https://play.rust-lang.org )
//
//
    The code was formatted using the Rustfmt tool.
    The code was Linted using the Clippy tool.
11
// Mid-level intermediate representation (MIR) verified
     using the Miri interpreter.
//
11
use std::env;
fn main() {
    // collect the command-line arguments into an array of strings
// the length of the array indicates the number of arguments
// The first argument is the path to call the program, so there
     // are no arguments unless the count is greater than 1.
     let args: Vec = env::args().collect();
     if args.len() > 1 {
          // there are command-line arguments, explain how the program works
println!("FizzBuzz");
          println!("FizzBuzz");
println!("'Output the numbers 1 to 100.");
println!("'If the number is divisible by 3, output FIZZ.");
println!("If the number is divisible by 5, output BUZZ.");
println!("If the number is divisible by both 3 and 5, output FIZZBUZZ.");
           //
                            command-line arguments, explain how the program works
                end
     } else {
           // no command-line arguments, normal program operation
          println!("FizzBuzz");
println!("For help, type FizzBuzz -h.");
           println!();
          println!("FizzBuzz results:");
           for n in 1..=100 {
    print!("The count is {:?} ", n);
                if n % 3 == 0 {
                     // divisible by 3
                     print!("FIZZ");
                if n % 5 == 0 {
                     // divisible by 5
                     print!("BUZZ");
                                      // end the line of text
                println!();
                     end
                                 for loop
          }
           //
                 end
                            no command-line arguments
     }
     // Notify the user that the program has completed execution.
println!("End of program.");
           end
                       fn main
}
```

12 80x86 Assembly Language (Win32)

```
; This is the game of FizzBuzz in 80x86 assembly language under Win32.
 Assemble the code using NASM.
        global _main
         extern _printf
         extern ExitProcess
        segment .data
        countmsg
                           db
                                     'The count is ', 0
                                      'Fizz', 0
'Buzz', 0
        fizzmsg
                           dh
        buzzmsg
                           db
        crlfmsg
                           dh
                                      0dh,0ah,0
                                      'Exiting the program ...', 0
         exitmsg:
                           db
         counter:
                                   '0'
        byte1:
                                            ; 3 bytes to display the count value
                                    '0'
        byte2:
        byte3:
                           db
                                    '0'
                                            ; space for formatting ; the string needs to be terminated with a \boldsymbol{0}
                           db
        byte4:
                           db
          code
        section .text
_main:
start:
                                     ; initialize cx for the counter, 1 to 100
        mov cx, 1
mainloop:
        push cx
                                      ; save cx
        call getcount
         push cx
         push countmsg
                                     ; display the count message
         call _printf
        add \overline{\text{esp}}, 4
        pop cx
        push cx
         call printcount
                                     ; display the count value
        pop cx
divisibleby3:
        mov ax, cx
                                   ; copy the count in cx to ax to perform the Modulo operation
        mov bl, 03h
                                   ; is ax divisible by 3?
                                         ; al = quotient ( ax / divisor )
ah = remainder ( ax MOD divisor )
        div bl
         cmp ah, 00h
                                 ; if MOD = 0, then the count is divisible by 3
         je dividesby3
```

```
divisibleby5:
        mov ax, cx
                                  ; copy the count in cx to ax to perform the Modulo operation
                                 ; is ax divisible by 5?
        mov bl, 05h
                                       ; al = quotient (ax / divisor); ah = remainder (ax MOD divisor)
        div bl
        cmp ah, 00h
                                       ; if MOD = 0, then the count is divisible by 5
        je dividesby5
incrementindex:
        call printcrlf
                                  ; print the sequence to terminate the line of text
                                  ; restore the count in cx which we saved at the top of the loop
        pop cx
        inc cx
        cmp cx, 100
jbe mainloop
                                  ; has the count reached 100?
; if the count has not exceeded 100, then repeat the loop
                                            ; the count has exceeded 100, exit the program
        jmp exit
dividesby3:
                                ; divisible by 3, so print 'FIZZ'; go check now if divisible by 5
        call printfizz
        jmp divisibleby5
dividesby5:
                                             ; divisible by 5, so print 'BUZZ'
        call printbuzz
        jmp incrementindex
                                  ; go check now if we have reached 100
printfizz:
        push cx
        push fizzmsg
        call _printf
        add esp, 4
        pop cx
        ret
printbuzz:
        push buzzmsg
        call _printf
        add esp, 4
printcrlf:
        push crlfmsg
                                 ; print the sequence to terminate the line of text
        call _printf
        add esp, 4
        ret
```

```
printcount:
; prints the value of the counter to the screen
        push counter
        call _printf
add esp, 4
        ret
getcount:
; converts the count in cx to a format which
; can be displayed on the screen
; al must contain the byte to display
        mov ax, cx
                                 ; get the count
                               ; divisible by 100?
; al = al / 100
        mov bl, 100
        div bl
add al, 30h
                                  ; add offset for printing to the screen
        mov [byte1], al
                              ; copy the value to byte1 of the counter
        sub al, 30h
                                ; remove the offset from al
        mov bl, 100
                                     ; al = al * 100
        mul bl
                                   ; move al to bl
        mov bl, al
        mov ax, cx
                                 ; restore the count to al
        sub al, bl
                                   ; subtract bl ( al = al - (al * 100) )
        push ax
                                ; save the count minus the hundreds
                               ; divisible by 10?
; al = al / 10
        mov bl, 10
        div bl
add al, 30h
                                 ; add offset for printing to the screen
                             ; copy the value to byte2 of the counter
        mov [byte2], al
                                 ; remove the offset from al
        sub al, 30h
        mov bl, 10
        mul bl
                                    : al = al * 10
                                 ; move al to bl
        mov bl, al
                                 ; restore the count minus the hundreds
; subtract bl ( al = al - (al * 10)
        pop ax
        sub al, bl
                                                   (al = al - (al * 10))
        add al, 30h
                                   ; add offset for printing to the screen
        mov [byte3], al
                                ; copy the value to byte3 of the counter
        ret
exit:
        push exitmsg
call _printf
                                  ; display message to indicate the end of the program
        add esp, 4
        push crlfmsg
                                  ; print the sequence to terminate the line of text
        call _printf
        add esp, 4
        push 0
                                  ; terminate the program
              ExitProcess
        call
```

80x86 Assembly Language (MS-DOS) **13**

```
; Talk about a blast from the past.
; This is the game of FizzBuzz in 80x86 assembly language.; Assemble the code using NASM ( https://www.nasm.us/ ).; It generates a COM file. COM files were a simple executable; file format for IBM PC DOS or Microsoft MS-DOS. COM files
  are limited in that the program code and data must fit into a single 64K byte segment. They do not contain a header with
; information for relocation, so they are no longer supported by ; recent versions of Microsoft Windows. COM files were often used
 ; from the early 1980s until Microsoft Windows no longer supported
 them beginning in the early 2000's.
  32-bit Windows still appears to have support for emulating
 ; MS-DOS, but modern Windows versions (64-bit) no longer support
 ; the format, so it is necessary to use an external DOS emulator
  in order to run this type of executable file.
  DOS emulators such as DOSBox ( https://www.dosbox.com/ ), or
; DOS emulators such as DOSBox ( https://www.uosbox.com/ ), or
; FreeDOS ( https://www.freedos.org/ ) are available for this.
                 ; required entry point for COM executables
org 100h
start:
          mov cx, 1
                                           ; initialize cx for the counter,
                                           ; going from 1 to 100
mainloop:
                                           ; get the counter value and convert
           call getcount
                                            ; it to a string for display
                                           ; print the count message
           lea dx, [countmsg]
          call printmsg
          call printcount
                                         ; print the counter as a string
divisibleby3:
          mov ax, cx
                                          ; copy cx to ax to perform the Modulo operation
          mov bl, 03h
                                           ; is ax divisible by 3?
                                           ; al = quotient (ax / divisor); ah = remainder (ax MOD divisor); if it's MOD 0, then it's divisible by 3
          div bl
          cmp ah, 00h
          je dividesby3
                                           ; jump to the routine to print the message
divisibleby5:
          mov ax, cx
                                           ; copy cx to ax to perform the Modulo operation
          mov bl, 05h
                                           ; is ax divisible by 5?
                                          ; al = quotient ( ax / divisor )
; ah = remainder ( ax MOD divisor )
; if it's MOD 0, then it's divisible by 5
; jump to the routine to print the message
          div bl
           cmp ah, 00h
           je dividesby5
```

```
incrementindex:
                                             ; print the sequence to end the line
           call printcrlf
                                              ; of text
                                             ; increment the loop counter
; have we reached 100 yet?
; not yet, so loop again
; we've reached 100, so exit the program
           inc cx
           cmp cx, 100
           jbe mainloop
           jmp exit
dividesby3:
                                             ; print "FIZZ" since it's divisible by 3
           call printfizz
           jmp divisibleby5
                                              ; jump to the next action to perform ; ie; check if it's divisible by 5
dividesby5:
                                             ; print "BUZZ" since it's divisible by 5
; jump to the next action to perform
; ie; check if we've reached 100 yet
           call printbuzz
           jmp incrementindex
                                              ; print the message showing divisible by 3 ; the address of the message to print in dx ; call the subroutine to print the message \,
printfizz:
           lea dx, [fizzmsg]
           call printmsg
           ret
                                              ; print the message showing divisible by 5 ; the address of the message to print in dx ; call the subroutine to print the message
printbuzz:
           lea dx, [buzzmsg]
           call printmsg
                                              ; print the sequence to end the line
printcrlf:
                                              ; of text
; the address of the message to print in dx
; call the subroutine to print the message
           lea dx, [crlfmsg]
           call printmsg
           ret
                                              ; print a message to the screen ; the BDOS function to print a $ terminated
printmsg:
           mov ah, 9
                                              ; string
                                              ; DX must point to the string before calling
                                              ; this subroutine
; call the BDOS
           int 21h
           ret
printcount:
  prints the value of the counter to the screen
  before calling this, we must call getcount in
; order to convert the counter value to a 3 byte string
; ( 000 to 255 )
           lea dx, [counter]
call printmsg
                                          ; print the counter string
           ret
```

```
getcount:
 Converts the count in cx to a format which
  can be displayed on the screen.
 al must contain the byte to display.
  The value of the byte ranges from 0 to 255.
; We store the value as a 3 byte text string; which is terminated by a "$". We insert 3; spaces (db " ") before the "$" in; order to format the text prior to announcing; "FIZZ", "BUZZ" or "FIZZBUZZ".
; In order to obtain the hundreds digit, we divide
; the counter value by one hundred. We convert the
 result to a displayable character and store it as
the first digit of the string.
; The we subtract the hundreds from the counter.
; For example: 255 - 200 = 55.
; In order to obtain the tens digit, we divide
 the new counter value by ten. We convert the
result to a displayable character and store it
 as the second digit of the string.
; The we subtract the tens from the counter.
; For example: 55 - 50 = 5.
; We convert the result to a displayable character
; and store it as the third digit of the string.
                                      ; get the count
         mov ax, cx
                                      ; divisible by 100?
; al = al / 100
         mov bl, 100
          div bl
          add al, 30h
                                       ; add offset for printing to the screen
          mov [byte1], al
                                       ; copy the value to bytel of the counter
         sub al, 30h
mov bl, 100
                                       ; remove the offset from al
                                      ; al = al * 100
; move al to bl
         mul bl
         mov bl, al
         mov ax, cx sub al, bl
                                      ; restore the count to al
; subtract bl ( al = al - 100s )
          push ax
                                       ; save the count minus the hundreds
         mov bl, 10
                                      ; divisible by 10?
; al = al / 10
         div bl
add al, 30h
                                       ; add offset for printing to the screen ; copy the value to byte2 of the counter
         mov [byte2], al
          sub al, 30h
                                       ; remove the offset from al
          mov bl, 10
                                       ; al = al * 10
; move al to bl
         mul bl
         mov bl, al
                                       ; restore the count minus the hundreds
          pop ax
          sub al, bl
                                       ; subtract bl (al = al - tens)
```

add al, 30h mov [byte3], al

ret

(Continued on the next page.)

; add offset for printing to the screen ; copy the value to byte3 of the counter

exit: lea dx, [exitmsg]
call printmsg ; print the exit message since we're finished ; print the sequence to end the line ; of text $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}{2}$ call printcrlf mov ah, 4ch int 21h ; terminate the program
; call the BDOS countmsg: fizzmsg: buzzmsg: exitmsg: "The count is \$" db "Fizz\$" db db "Buzz\$" "Exiting the program.\$" Odh,Oah,"\$" db db crlfmsg: counter: "0" "0" db ; 3 bytes to display the count value byte1: byte2: db "Õ" byte3: ; used to format the text on screen ; the string needs to be terminated with a \$ db "\$"

byte4:

db

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References

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