33.- ft_putendl_fd.-

BSD Man Page References:

- write(2): Used for writing data to a file descriptor.
- ft strlen(3) (custom, not standard): For calculating string length.

Synopsis:

```
void ft_putendl_fd(char *s, int fd);
```

Purpose:

This function writes a null-terminated string (S) followed by a newline character (\n) to a specified file descriptor (fd).

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```

Parameters:

- char *s: Pointer to the string to be written.
- int fd: File descriptor to write to.

Code Explanation:

```
void ft_putendl_fd(char *s, int fd)
{
    if (!s) // Check for null input
    {
        return;
    }

    write(fd, s, ft_strlen(s)); // Write the string
    write(fd, "\n", 1); // Write the newline character
}
```

- **Check for null input:** Returns if the pointer S is null.
- **Write the string:** Uses write to write the characters of S to fd with the number of bytes determined by ft_strlen(s).
- **Write the newline:** Uses write to write the newline character (\n) to fd with 1 byte.

Key Points:

- This function provides a convenient way to print a string including a newline to different output streams specified by file descriptors.
- It relies on the write system call for efficient data writing.

Example Usage (Main Function):

```
int main(void)
{
   ft_putendl_fd("Adios Mundo Cruel", 1); // Write to standard output (FD 1)
```

```
return (0);
}
```

• This will print "Adios Mundo Cruel" followed by a newline to the standard output console.

Additional Notes:

- Remember to include the libft.h header file before using this function.
- Ensure proper error handling when using write.
- Consider using strlen(s) directly instead of ft strlen(s) if performance is critical.

Here's a summary of the key differences between ft_putstr_fd and ft_putendl_fd:

Function	Purpose	Output
ft_putstr_f d	Writes a null-terminated string to a file descriptor.	String only - does not add a newline.
ft_putendl_ fd	Writes a null-terminated string followed by a newline to a file descriptor.	String + newline character ("\n").

In a nutshell:

- ft_putstr_fd prints the string without adding a newline.
- ft_putendl_fd prints the string **and** adds a newline, essentially starting a new line after the string.

Example usage:

```
 ft_putstr_fd("Hello", 1); // Prints "Hello" to standard output (FD 1). \\ ft_putendl_fd("World", 2); // Prints "World\n" to standard error (FD 2). \\
```

Additional notes:

- Both functions use write for efficient data writing to file descriptors.
- They offer flexibility for printing to different output streams beyond just standard output.
- When choosing between them, consider whether you want to include a newline character after the string.