34.- ft_putnbr_fd. -

BSD Man Page References:

• write(2): Used for writing data to a file descriptor.

Synopsis:

```
void ft_putnbr_fd(int n, int fd);
```

Purpose:

Writes a decimal representation of an integer to a specified file descriptor.

Description:

The ft_putnbr_fd function takes two arguments:

- n: The integer to be printed.
- fd: The file descriptor to write to.

Code explanation:

```
void ft_putnbr_fd(int n, int fd)
{
    long ln = n; // Use a long to handle potential overflow

    if (ln < 0) // Handle negative numbers
    {
        ft_putchar_fd('-', fd); // Print a minus sign
        ln *= -1; // Make the number positive for digit processing
    }

    if (ln <= 9) // Base case: single-digit number
    {
        ft_putchar_fd(ln + '0', fd); // Print the digit character
    }
    else // Recursive case: multi-digit numbers
    {
        ft_putnbr_fd(ln / 10, fd); // Print the higher digits first
        ft_putnbr_fd(ln % 10, fd); // Print the last digit
    }
}</pre>
```

- Prints digits in reverse order (higher digits first) due to recursion.
- Uses write for low-level data writing.

Example usage (main function):

```
int main(void)
{
    int fd = 1; // Standard output
    int n = -2147483648;

    ft_putnbr_fd(n, fd); // Prints "-2147483648" to standard output
    printf("\n");
```

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

Additional notes:

- Consider using long long instead of long for wider integer ranges.
- Ensure proper error handling when using write.
- This function demonstrates a recursive approach to printing numbers.