```
/**
 * inprdr – Asks the user to input some value or string and stores it using mall
oc.
 *
 * @return x0: Pointer to the input buffer.
 *
 * Registers used: x0, w8, lr
 * Registers saved: lr
 */

.text
.global inprdr
    inprdr:
        // Save return address
        str lr, [sp, #-16]!

        // Read from stdin into a buffer
        mov x0, #0
        ldr w8, =20                     // Declare the buffer size 20
        bl malloc                       // Allocate memory and get the pointer
in x0
        str x0, [sp, #-16]!             // Store the pointer on the stack

        mov x2, #20                     // Set size of buffer
        mov x8, #63                     // Linux syscall number for read STDIN_
FD
        mov w1, w0                      // Move the malloc pointer into w1
        mov w0, #0                      // STDIN_FD is file descriptor 0
        svc 0                           // Linux syscall to read from STDIN_FD

        ldr x0, [sp], #16               // Retrieve the malloc pointer from sta
ck

        // Restore return address and return
        ldr x30, [sp], #16
        ret
```