```
        .globl _mirror

        .text

_mirror:

    push    %ebp                    # Backup Base pointer
    movl    %ebp,       %esp        # Set local base pointer.
    push    %eax                    # Backup needer registers
    push    %ecx
    push    %esi
    push    %edi


    movl    8(%ebp),    %esi        # Address of source string (first param) -> esi.
    movl    $0,         %ecx        # Initialize counter.
    subl    $1,         %esi        # Move back esi of one char. (Will be undone.)


go_end:

    addl    $1,         %esi        # See, what did I say ?
    addl    $1,         %ecx        # Increment counter.
    cmpb    $0,         (%esi)      # Check if we've reached the end-of-string char.
    jne     go_end                  # Jump back while we haven't.

    movl    %esi,       %edi        # Dest index is now on the end-of-string char.
    subl    $2,         %esi        # Move back esi to the letter before the last.
    subl    $2,         %ecx        # Update counter accordingly.

revcopy:

    movb    (%esi),     %al
    movb    %al,        (%edi)      # First tour in this loop overwrite the EOS.
    subl    $1,         %esi        # Go back one letter.
    addl    $1,         %edi        # Go forth one letter.
    subl    $1,         %ecx        # Decrement counter.
    jnz     revcopy                 # Go back while there's characters to copy.

    movb    $0,         (%edi)      # Place a new EOS char at the end.

    pop     %edi                    # Restore all backed up registers.
    pop     %esi
    pop     %ecx
    pop     %eax
    pop     %ebp

    ret
```