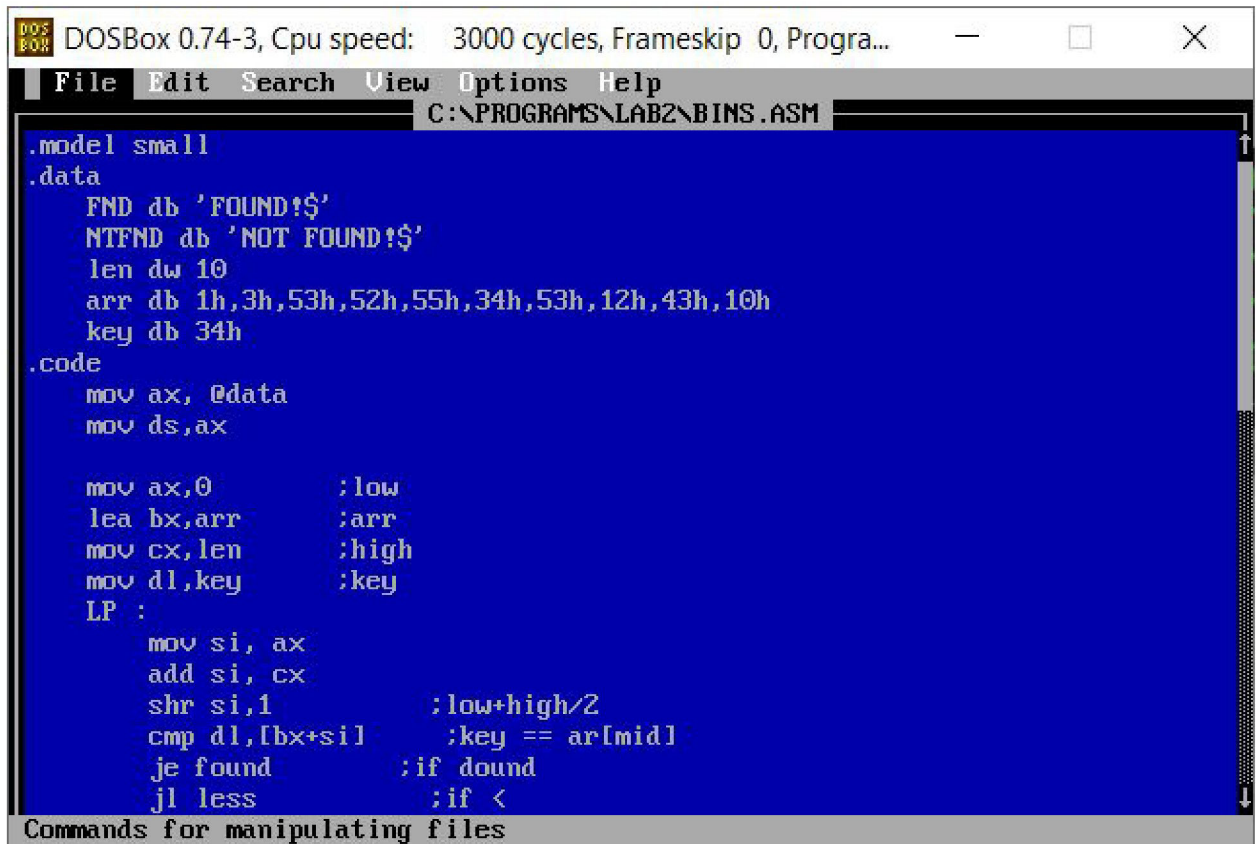


OUTPUT:

```
C:\PROGRAMS\LAB2>ls.exe
FOUND!
C:\PROGRAMS\LAB2>
```

## 2. BINARY SEARCH



The screenshot shows a DOSBox window titled "DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Progra...". The window has a menu bar with "File", "Edit", "Search", "View", "Options", and "Help". The title bar indicates the file being edited is "C:\PROGRAMS\LAB2\BINS.ASM". The main window displays the following assembly code:

```
.model small
.data
    FND db 'FOUND!$'
    NTFND db 'NOT FOUND!$'
    len dw 10
    arr db 1h,3h,53h,52h,55h,34h,53h,12h,43h,10h
    key db 34h
.code
    mov ax, @data
    mov ds, ax

    mov ax, 0           ;low
    lea bx, arr         ;arr
    mov cx, len         ;high
    mov dl, key         ;key
LP:
    mov si, ax
    add si, cx
    shr si, 1           ;low+high/2
    cmp dl, [bx+si]     ;key == ar[mid]
    je found           ;if found
    jl less            ;if <
```

At the bottom of the window, there is a status bar that reads "Commands for manipulating files".