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section .data

extern msg7,len7,spacecnt,newlinecnt,charcnt,new,newlen

section .bss

extern cnt,cnt2,cnt3,scall,buffer

%macro print 4
mov rax,%1
mov rdi,%2
mov rsi,%3
mov rdx,%4
syscall
%endmacro

section .text
global main2
main2:

global spaces,enters,occ

spaces:

mov rsi,buffer

up:
mov al, byte[rsi]
cmp al,20H
je next3
inc rsi
dec byte[cnt]
jnz up
jmp next4

next3:
inc rsi
inc byte[spacecnt]
dec byte[cnt]
jnz up

next4:
add byte[spacecnt], 30h
print 1,1,spacecnt, 2
print 1,1,new,newlen
ret

enters:
mov rsi,buffer

up2:
mov al, byte[rsi]
cmp al,0AH
je next5
inc rsi

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dec byte[cnt2]
jnz up2
jmp next6

next5:
inc rsi
inc byte[newlinecnt]
dec byte[cnt2]
jnz up2

next6:
add byte[newlinecnt], 30h
print 1,1,newlinecnt, 2
print 1,1,new,newlen
ret

occ:
mov rsi,buffer

up3:
mov al, byte[rsi]
cmp al,bl
je next7
inc rsi
dec byte[cnt3]
jnz up3
jmp next8

next7:
inc rsi
inc byte[charcnt]
dec byte[cnt3]
jnz up3

next8:
add byte[charcnt], 30h
print 1,1,msg7,len7
print 1,1,charcnt, 1
print 1,1,new,newlen
ret
```