

```

IDEAL
MODEL small
STACK 20h
DATASEG
parm1    dw  0
parm2    dw  0
parm3    dw  0
parm4    dw  0
parm5    dw  0
parm6    dw  0
CODESEG

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;*****
;

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proc    proc1
    push bp
    mov bp,sp
    mov dx,[bp+4] ;original values (5)
    mov ax,[bp+6] ;      (4)
    mov [parm1],dx
    mov [parm2],ax
    inc [parm1]
    add [parm2],2
    push [word ptr parm1]
    push [word ptr parm2]
    call proc2
    pop bp
    ret 4
endp    proc1

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proc    proc2
    push bp
    mov bp,sp
    mov dx,[bp+4] ; new parm2 of proc1
    mov ax,[bp+6] ; new parm1 of proc1
    mov [parm3],dx
    mov [parm4],ax
    inc [parm3]
    add [parm4],2
    push [word ptr parm3]
    push [word ptr parm4]
    call proc3
    pop bp
    ret 4
endp    proc2

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proc    proc3
    push bp
    mov bp,sp
    mov dx,[bp+4] ; new parm3 of proc2
    mov ax,[bp+6] ; new parm4 of proc2
    mov [parm5],dx
    mov [parm6],ax
    inc [parm5]
    add [parm6],2
    pop bp
    ret 4
endp    proc3

```

```
.***** MAIN PGM *****  
,  
start:  mov ax, @data  
        mov ds, ax  
        push 4  
        push 5  
        call proc1  
exit:   mov ax, 4c00h  
        int 21h  
END start
```