

# Лекция 4

19 февраля

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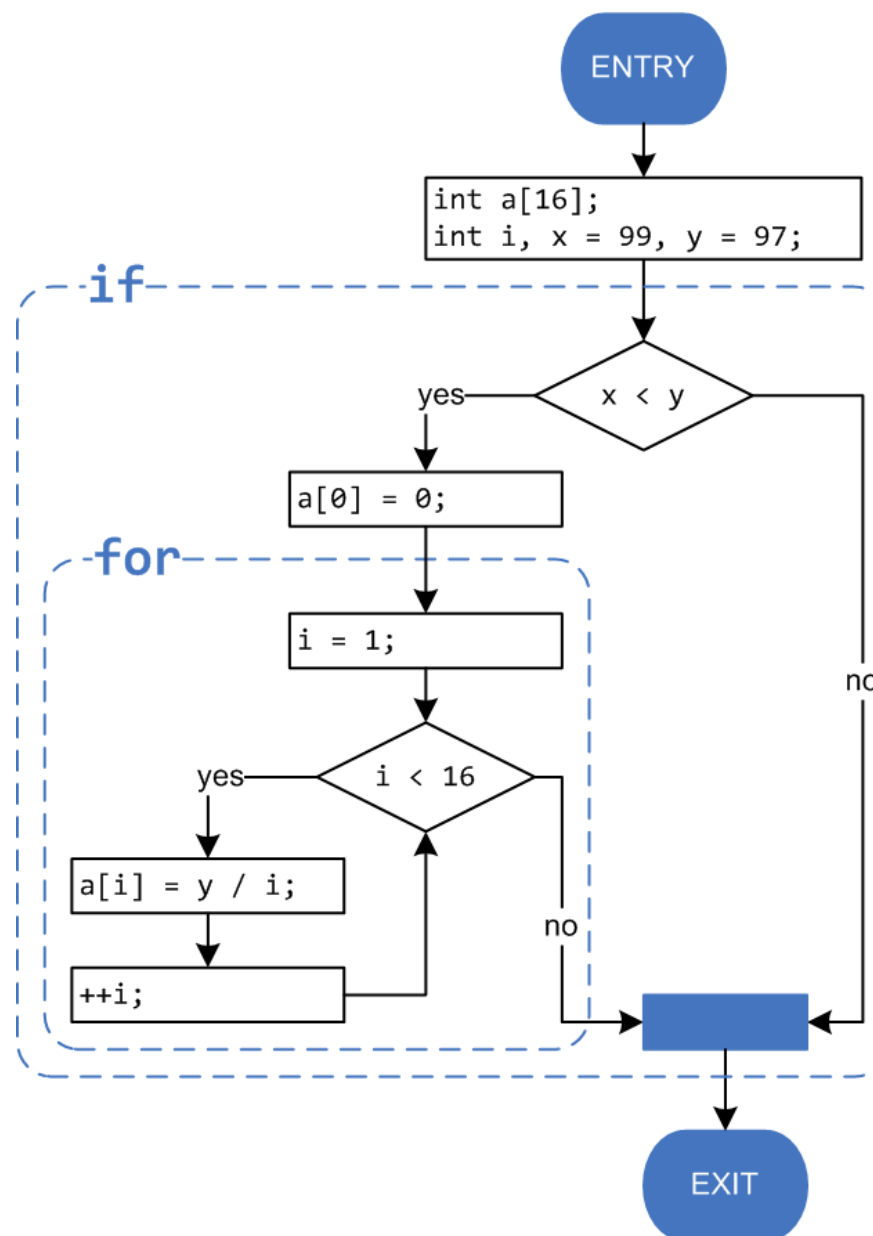
void f() {
    int a[16];
    int i, x = 99, y = 97;      // 1
    if (x < y) {                // 2
        a[0] = 0;               // 3
        for (i = 1; i < 16; ++i) { // 4
            a[i] = y / i;        // 5
        }
    }
}

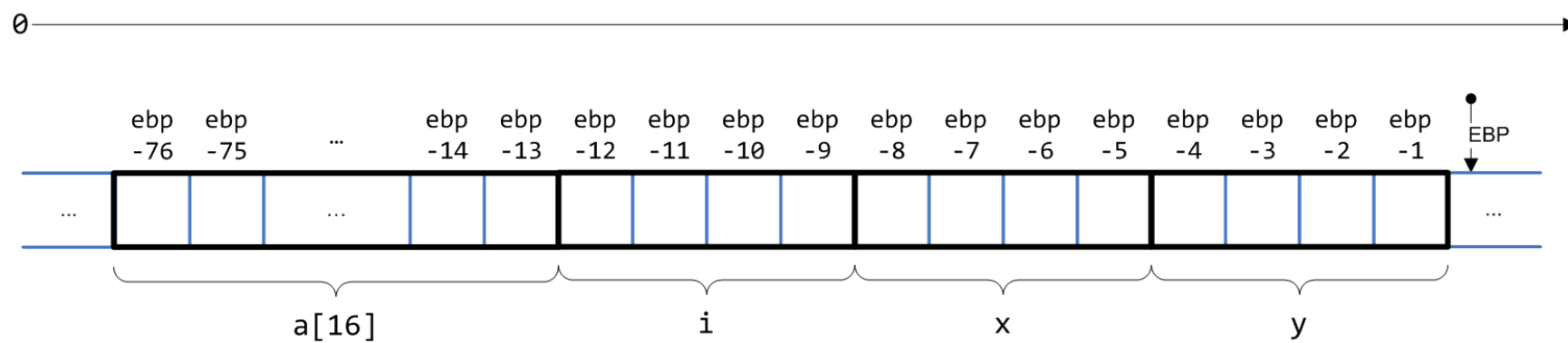
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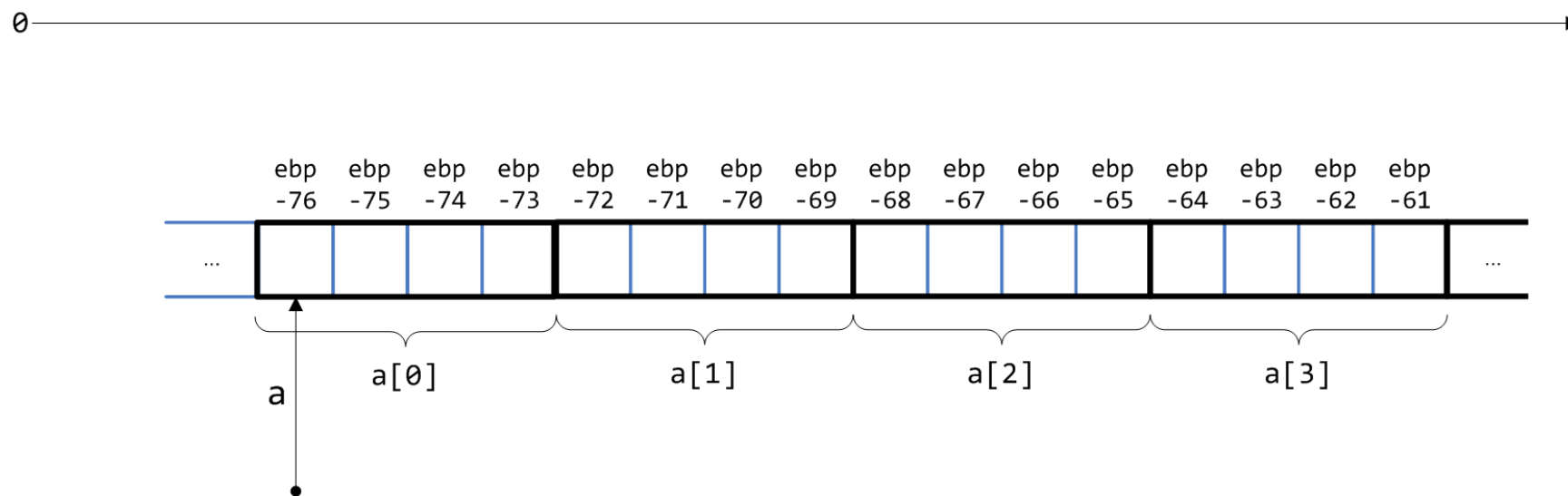
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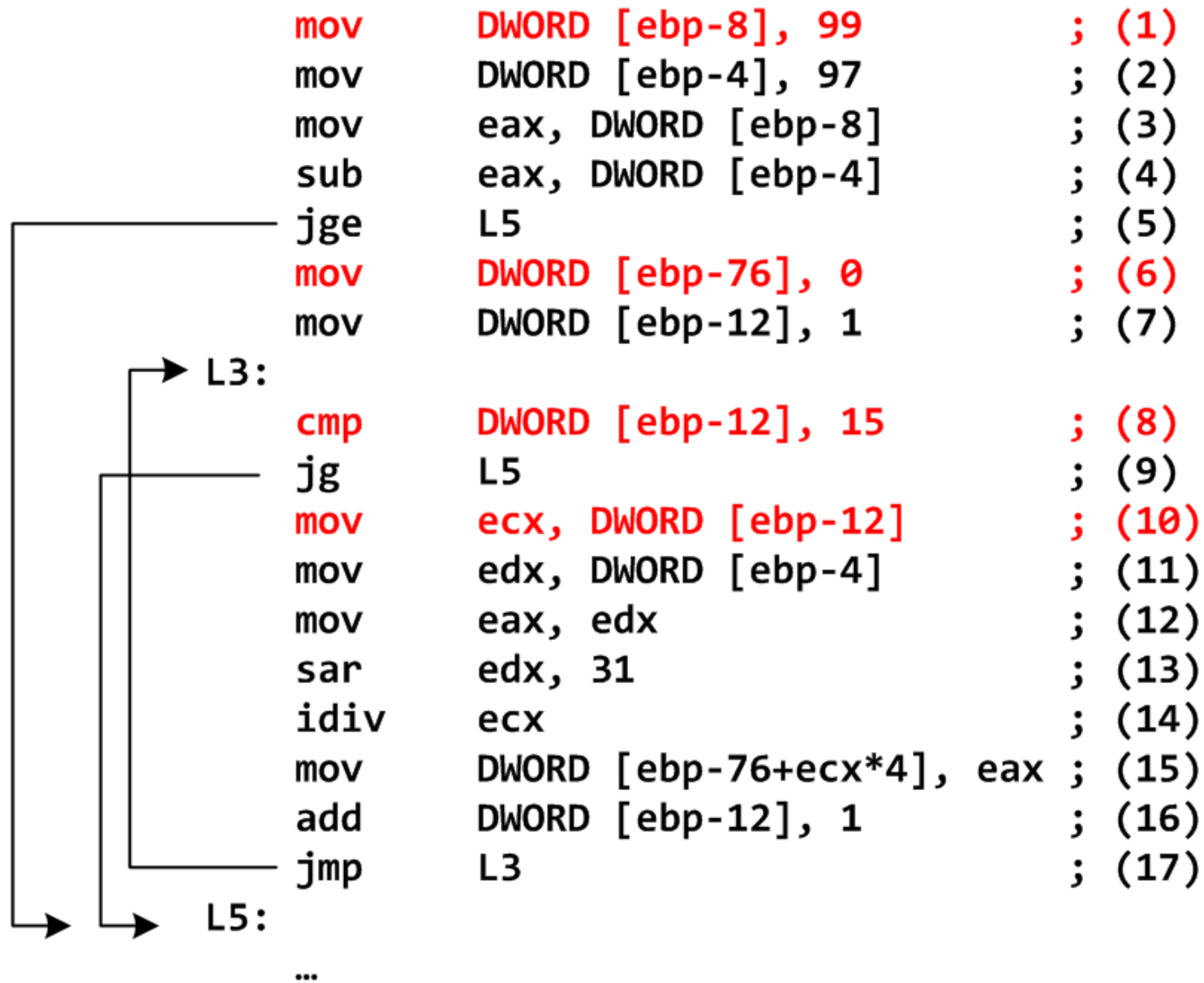
section .text
global f
f:
    push    ebp
    mov     ebp, esp
    sub     esp, 88
    mov     DWORD [ebp-8], 99      ; (1)
    mov     DWORD [ebp-4], 97      ; (2)
    mov     eax, DWORD [ebp-8]     ; (3)
    sub     eax, DWORD [ebp-4]     ; (4)
    jge     L5                     ; (5)
    mov     DWORD [ebp-76], 0      ; (6)
    mov     DWORD [ebp-12], 1      ; (7)
L3:
    cmp     DWORD [ebp-12], 15     ; (8)
    jg      L5                     ; (9)
    mov     ecx, DWORD [ebp-12]    ; (10)
    mov     edx, DWORD [ebp-4]     ; (11)
    mov     eax, edx               ; (12)
    sar     edx, 31                ; (13)
    idiv    ecx                    ; (14)
    mov     DWORD [ebp-76+ecx*4], eax ; (15)
    add     DWORD [ebp-12], 1      ; (16)
    jmp     L3                     ; (17)
L5:
    leave
    ret

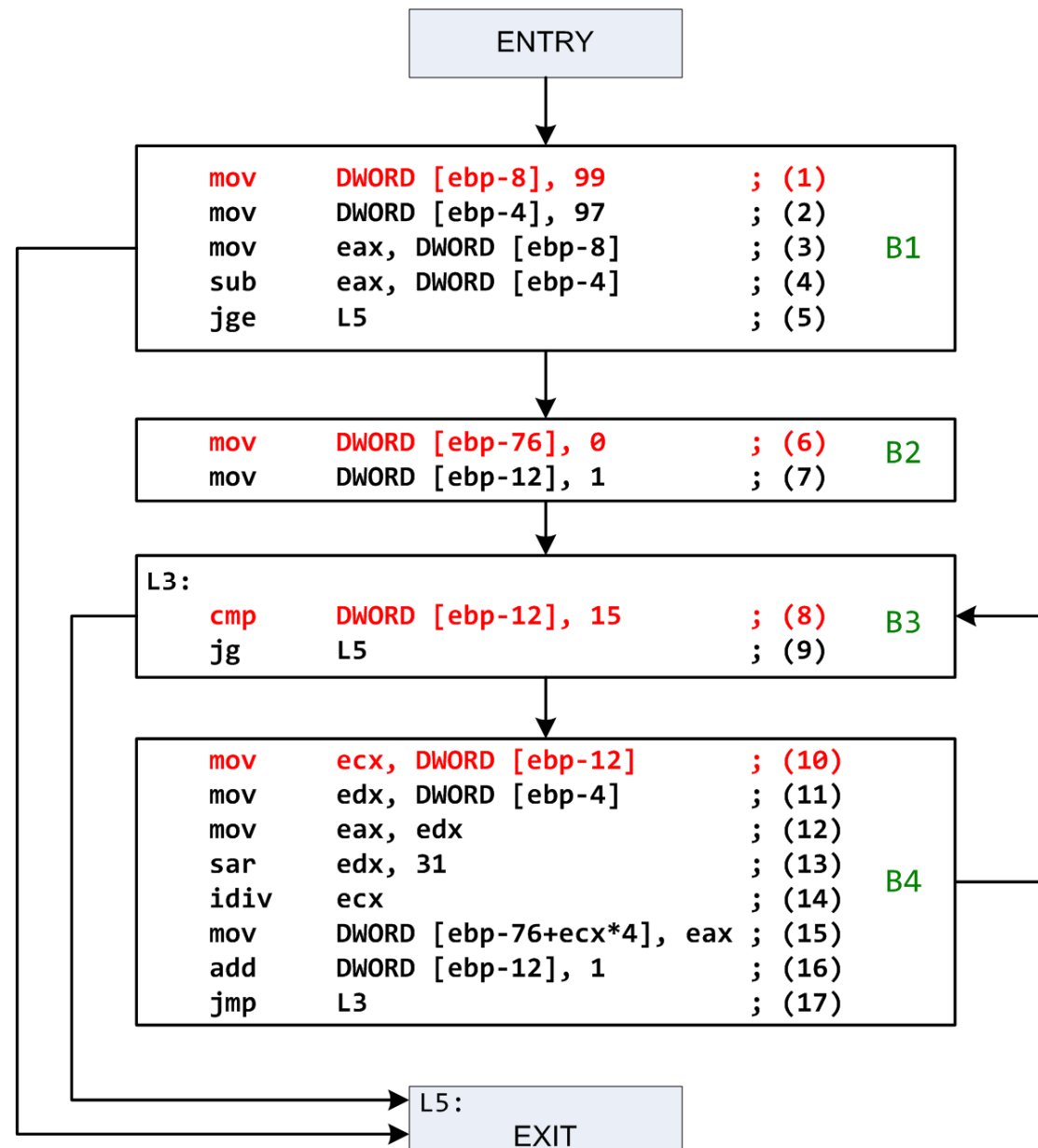
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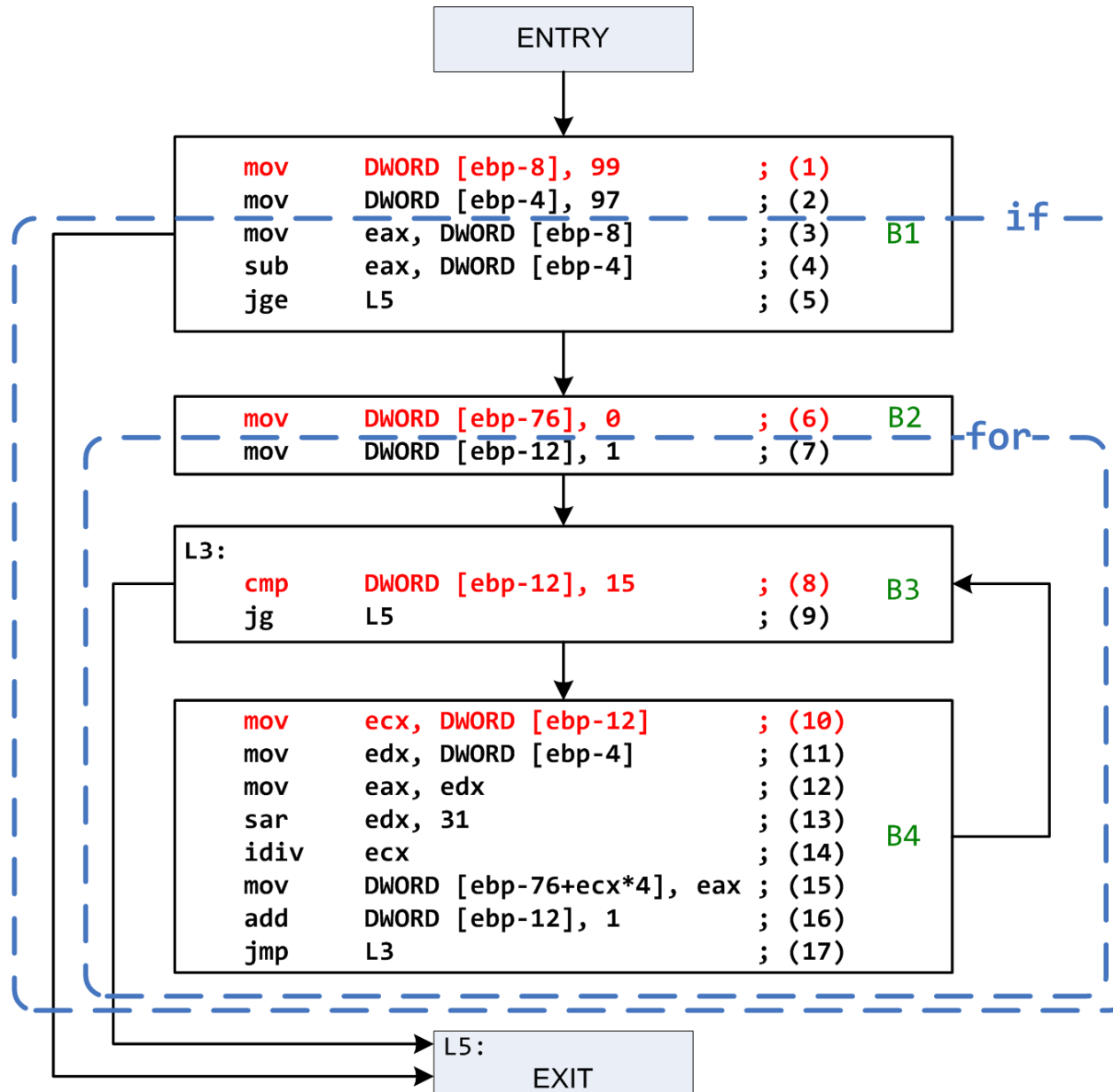




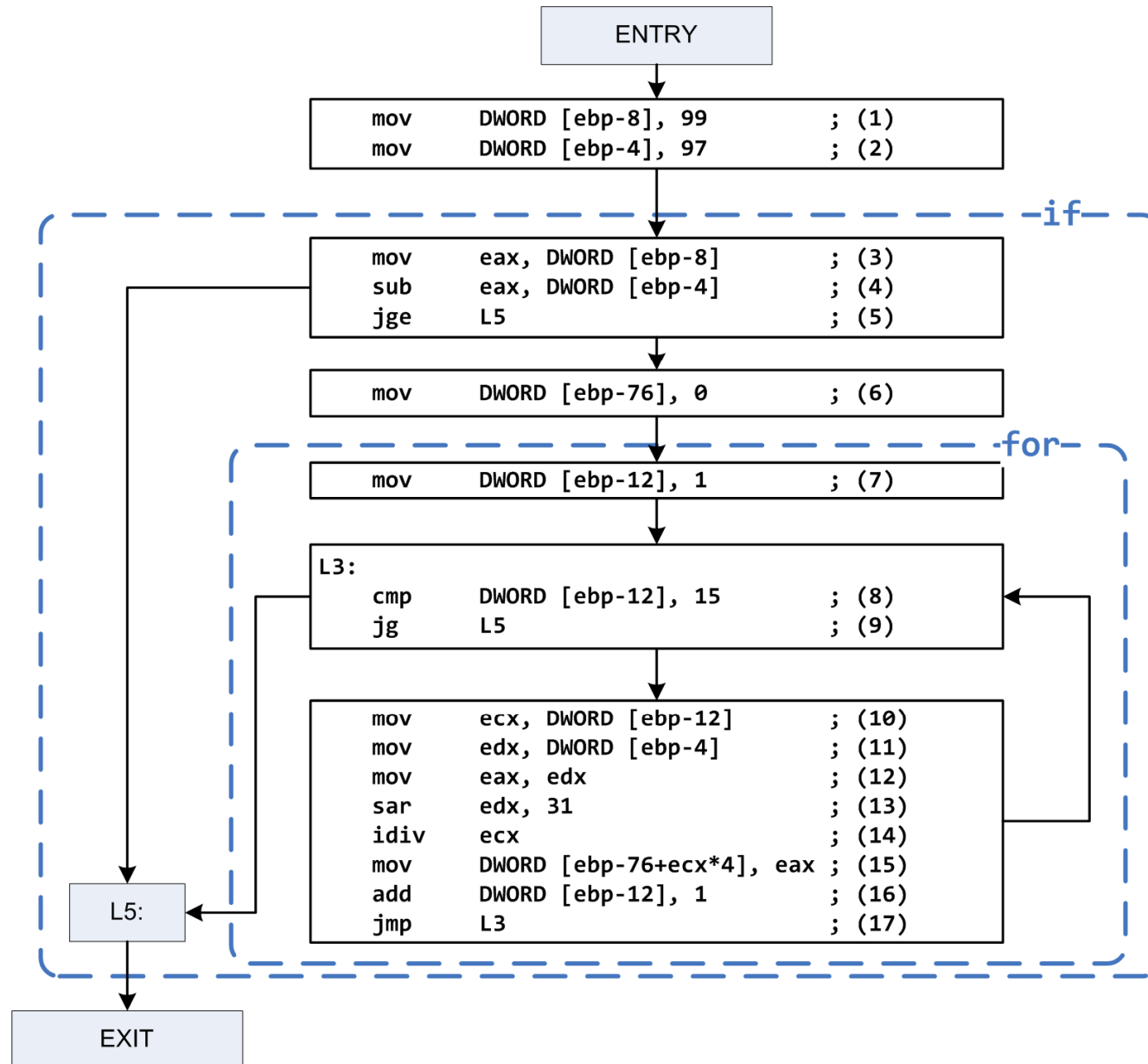


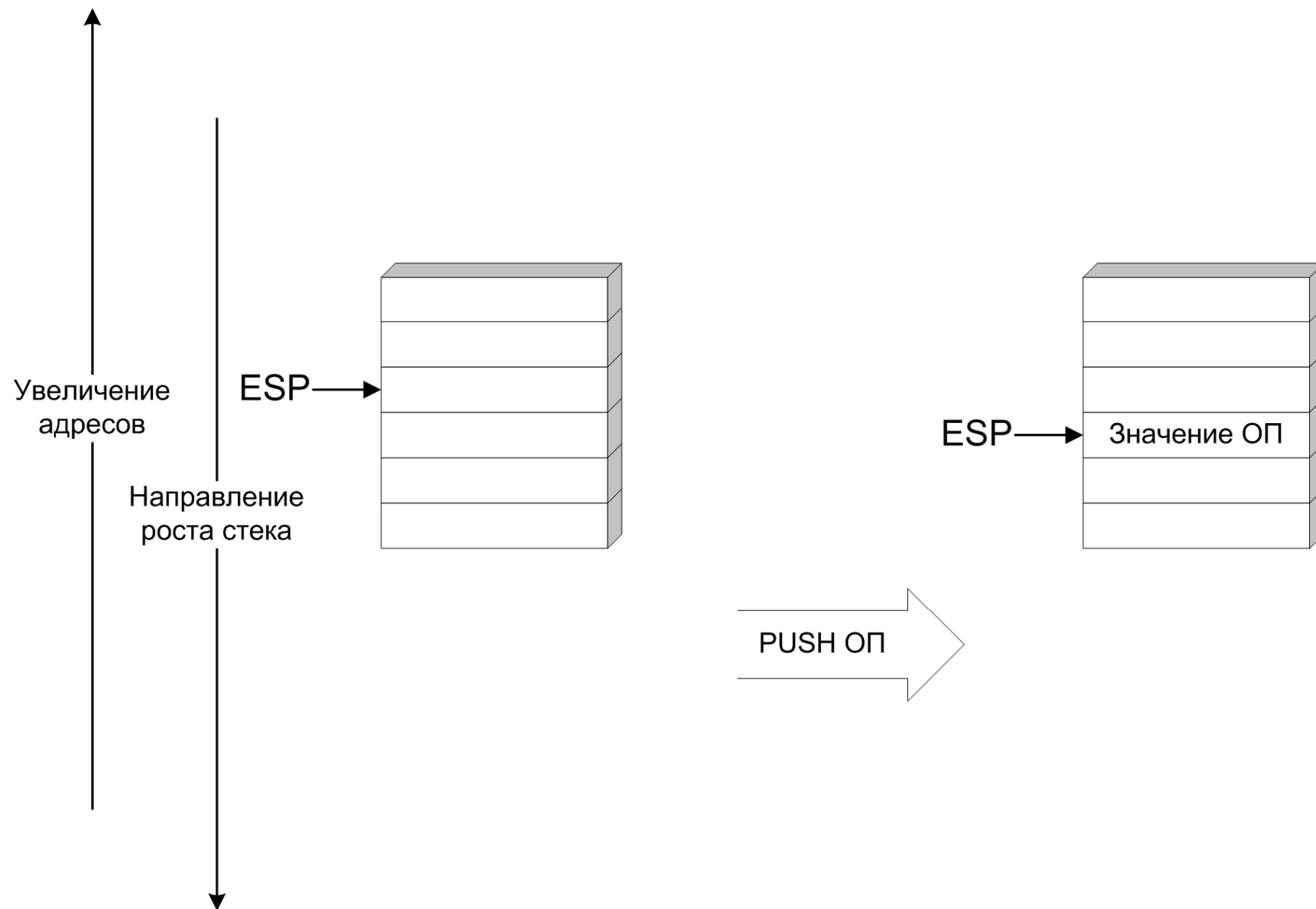


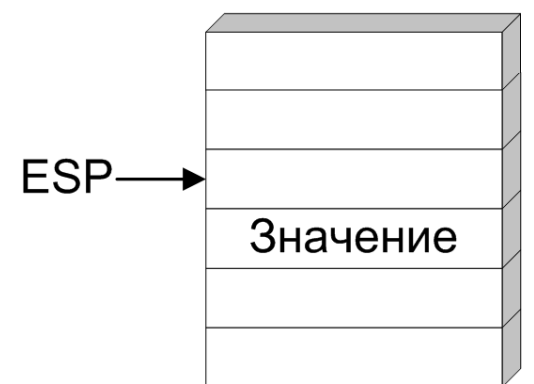
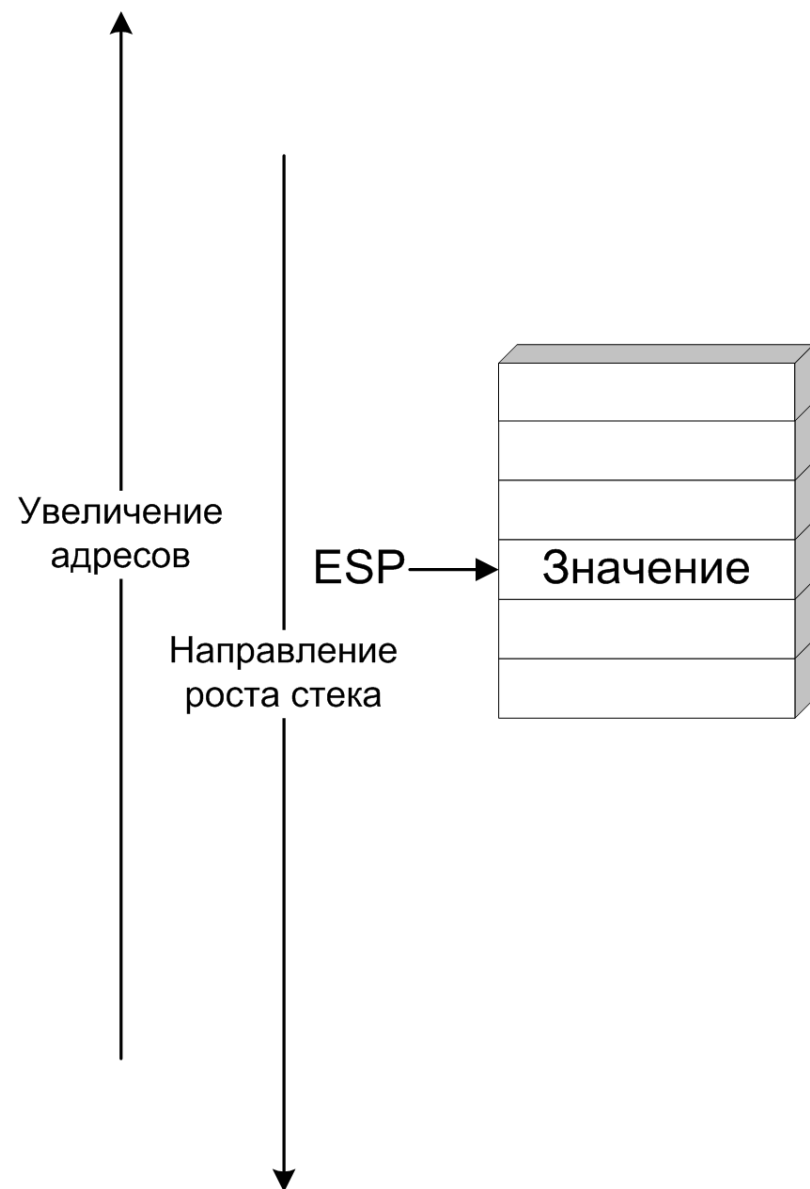




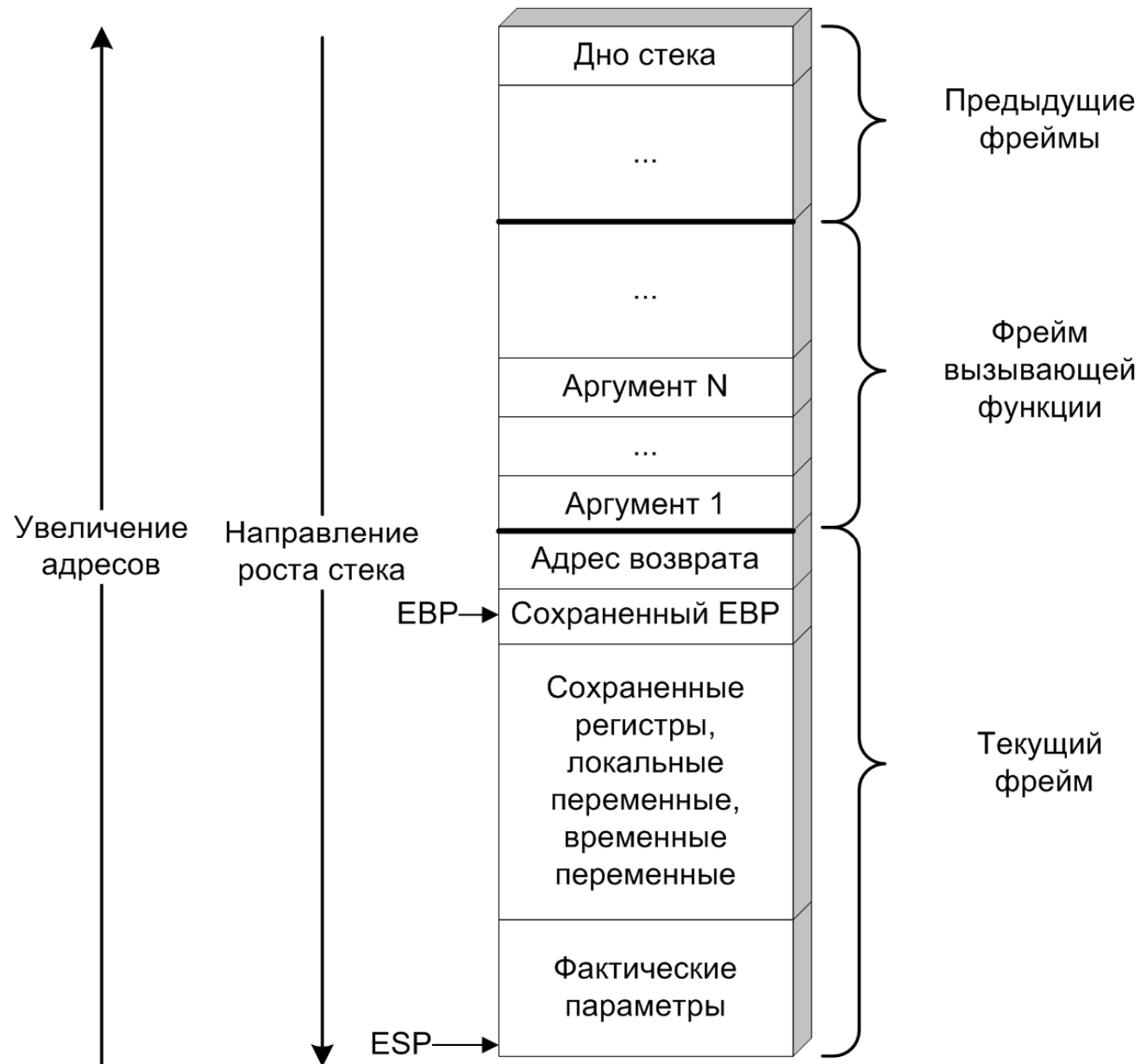








ОП = Значение



```

int main() {
    int a = 1, b = 2, c;
    c = sum(a, b);
    return 0;
}

int sum(int x, int y) {
    int t = x + y;
    return t;
}

```

```

#include 'io.inc'
section .text

global CMAIN
CMAIN:
mov     DWORD [ebp-16],0x1    ; (1)
mov     DWORD [ebp-12],0x2    ; (2)
mov     eax,DWORD [ebp-12]    ; (3)
mov     DWORD [esp+4],eax     ; (4)
mov     eax,DWORD [ebp-16]    ; (5)
mov     DWORD [esp],eax       ; (6)
call    sum                   ; (7)
mov     DWORD [ebp-8],eax     ; (8)

global sum
sum:
push    ebp                   ; (9)
mov     ebp,esp               ; (10)
sub     esp,0x10              ; (11)
mov     edx,DWORD [ebp+12]    ; (12)
mov     eax,DWORD [ebp+8]     ; (13)
add     eax,edx                ; (14)
mov     DWORD [ebp-4],eax     ; (15)
mov     eax,DWORD [ebp-4]     ; (16)
mov     esp, ebp              ; (17)
pop     ebp                   ; (18)
ret                               ; (19)

```