

# Лекция 3

16 февраля

```
%include "io.inc"
```

```
section .data
```

```
    var dd 0x1234F00D
```

```
section .bss
```

```
    cntr resd 1
```

```
section .text
```

```
global CMAIN
```

```
CMAIN:
```

```
    add [cntr], 1
```

```
    mov eax, [var]
```

```

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
        }
    }
}

```

```

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

```



