

Lab 2

mov op2, %eax
mull op

op1 & op2
 $< 2^{32}$ $< 2^{32}$
 $< 2^{64}$

edx | eax |
63 32 31 0

(x: long 4)
(y: long 6)
z: long 2³¹

mov x, %eax
mull y

10 010 11111
63 32 31 4 3 2 1 0
eax = 24
edx = 0
3 | 10

div op
 $D = \frac{C}{R}$
↑ ↑
op %eax

(edx, %eax)

mov \$0, %edx
mov \$6, %eax
mov \$4, %ebx
~~mov \$4, %ebx~~
shl %ebx

edx = 1
edx = 2

cmp op2, op1 } if (op1 < op2) halt but
jlt et ebx cont. exec. in jo

Trup = op1 - op2 = 0 / jle => jz
op1 == op2


```

i = 0
while (i < n) {
    D[i] = i;
    i++;
}

```

```

i = 0
L1: if (i < n) {
    D[i] = i;
    i++;
    goto L1;
}

```

```

i = 0
L1: if (i == n) go to exit
    D[i] = i;
    i++;
    goto L1;
exit:

```

loop et

```

    lex = lex - 1
    if (lex == 00) not let
    else cont. lex, i go

```