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```
program ejemplo {
    int a = 0;
    int b = 0;
    int c = 0;
    a = 5;
    b = 6;
    c = 3;
    int suma = a + b;
    int resta = a - c;
    int suma2 = suma - resta;
}
.data
    a      dw    0
    b      dw    0
    c      dw    0
    suma      dw    ?
    resta     dw    ?
    suma2     dw    ?
.code
mov = 1100011w
w = 1 si es 16 bits
w = 0 si es 8 bits
mod = 11
r/m = 000
```

mov a, 5 = <u>1100 0111</u>   <u>1100 0000</u>   <u>0000 0000</u>   <u>0000 0101</u>
mov b, 6 = <u>1100 0111</u>   <u>1100 0000</u>   <u>0000 0000</u>   <u>0000 0110</u>
mov c, 3 = <u>1100 0111</u>   <u>1100 0000</u>   <u>0000 0000</u>   <u>0000 0011</u>

mov = 100010dw
add = 000000dw

mov ax, a = <u>1000 1011</u>   <u>1100 0000</u>
add ax, b = <u>0000 0011</u>   <u>1100 0000</u>
mov suma, ax = <u>1000 1011</u>   <u>1100 0000</u>

sub = 000101dw

mov ax, a = <u>1000 1011</u>   <u>1100 0000</u>
sub ax, c = <u>0001 0111</u>   <u>1100 0000</u>
mov resta, ax = <u>1000 1011</u>   <u>1100 0000</u>

mov ax, suma = <u>1000 1011</u>   <u>1100 0000</u>
sub ax, resta = <u>0001 0111</u>   <u>1100 0000</u>
mov suma2, ax = <u>1000 1011</u>   <u>1100 0000</u>