parity.asm flowchart

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$9 → stores (32)

$8 → input word

$11 → result of mask

$12 → contains (1)

$13 → increment counter
of set bits

in

↓

$11 → $8 && 1

↓

$11 != $12 ——true——→ $13 → $13 + 1

false

↓

$14 → stores final value
aka set bits + 1

$15 → stores result
of checking if $14
is odd or even

shift right $8

↓

$9 → $9 - 1

↓

$9 != 0 ——true——→ (loop:)

false

↓

$14 → $13 + 1

↓

$15 → $14 && 1

↓

out