Zero Detection

🕐 Created	@October 29, 2024 3:08 PM
☰ Tags	
⟳ Status	Not started

Input Vector (31 bits)	Expected `zero_flag`
`"0000000000000000000000000000000"` (all zeros)	`1`
`"0000000000000000000000000000001"` (only LSB is 1)	`0`
`"1111111111111111111111111111111"` (all ones)	`0`
`"0000000000000000000000000000010"` (2nd LSB is 1)	`0`
`"0000000000000000000000000000000"` (all zeros)	`1`

e.g. whenever input vector is not 0, output 1 to zero flag. else, output 0 to output flag.