

**XORWF****Exclusive OR W with f**

Syntax: `[label] XORWF f [,d [,a]]`

Operands:  $0 \leq f \leq 255$   
 $d \in [0,1]$   
 $a \in [0,1]$

Operation:  $(W) .XOR. (f) \rightarrow dest$

Status Affected: N, Z

Encoding:	0001	10da	ffff	ffff
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Description: Exclusive OR the contents of W with register 'f'. If 'd' is 0, the result is stored in W. If 'd' is 1, the result is stored back in the register 'f' (default). If 'a' is 0, the Access Bank will be selected, overriding the BSR value. If 'a' is 1, then the bank will be selected as per the BSR value (default).

Words: 1

Cycles: 1

Q Cycle Activity:

Q1	Q2	Q3	Q4
Decode	Read register 'f'	Process Data	Write to destination

Example: `XORWF REG, 1, 0`

Before Instruction

REG = 0xAF

W = 0xB5

After Instruction

REG = 0x1A

W = 0xB5