HW 10: Condition Flags

For each line in the table on the following page indicate whether the assertion would be true (T), false (?), or unknown (?) if the codition flags obtained their indicated values after the ALU performed the indicated operation.

operation		flags	assertion	T/F/
A-B	unsigned	ZNCV	result is honest	F
A+B	signed	ZNCV	result is honest	\mathbf{T}
A+B	unsigned	ZNCV	result is honest	${f T}$
A-B	signed	ZNCV	result is honest	\mathbf{F}
A+B	unsigned	ZNCV	result is honest	\mathbf{F}
A+B	signed	ZNCV	result is honest	T
A-B	unsigned	ZNCV	A > B T	
A-B	signed	ZNCV	A = B	
A-B	unsigned	ZNCV	A < B T	
A+B	signed	ZNCV	A ≤ B ?	
A-B	unsigned	ZNCV	A > B T	
A-B	signed	ZNCV	$A \leq B$ F	
A+B	unsigned	ZNCV	A < B ?	
A-B	signed	ZNCV	$A \geq B$	
A-B	unsigned	ZNCV	$A \leq B$ F	
A-B	signed	ZNCV	$A \geq B$ T	