	PC_counter		Branch					
	JALR	Branch	BLT	BLTU	BNE	BEQ	BGTE	BGTEU
SLL	0	0	0	0	0	0	0	0
SRL	0	0	0	0	0	0	0	0
SRA	0	0	0	0	0	0	0	0
ROR	0	0	0	0	0	0	0	0
ADD	0	0	0	0	0	0	0	0
SUB	0	0	0	0	0	0	0	0
SLT	0	0	0	0	0	0	0	0
SLTU	0	0	0	0	0	0	0	0
SEQ	0	0	0	0	0	0	0	0
XOR	0	0	0	0	0	0	0	0
OR	0	0	0	0	0	0	0	0
AND	0	0	0	0	0	0	0	0
NOR	0	0	0	0	0	0	0	0
MUL	0	0	0	0	0	0	0	0
MULU	0	0	0	0	0	0	0	0
SLLI	0	0	0	0	0	0	0	0
SRLI	0	0	0	0	0	0	0	0
SRAI	0	0	0	0	0	0	0	0
RORI	0	0	0	0	0	0	0	0
ADDI	0	0	0	0	0	0	0	0
SLTI	0	0	0	0	0	0	0	0
SLTIU	0	0	0	0	0	0	0	0
SEQI	0	0	0	0	0	0	0	0
XORI	0	0	0	0	0	0	0	0
ORI	0	0	0	0	0	0	0	0
ANDI	0	0	0	0	0	0	0	0
NORI	0	0	0	0	0	0	0	0
SET	0	0	0	0	0	0	0	0
SSET	0	0	0	0	0	0	0	0
JALR	1	0	0	0	0	0	0	0
LW	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0
BEQ	0	1	0	0	0	1	0	0
BNQ	0	1	0	0	1	0	0	0
BLT	0	1	1	0	0	0	0	0
BGE	0	1	0	0	0	0	1	0
BLTU	0	1	0	1	0	0	0	0
BGEU	0	1	0	0	0	0	0	1