ISA TABLE OF OUR DESIGN

AND 0000	R0-15 (DEST)	R0-15 (SRC1)	R0-15 (SRC2)	00 (UNUSED)
OR 0001	R0-15 (DEST)	R0-15 (SRC1)	R0-15 (SRC2)	00 (UNUSED)
ADD 0010	R0-15 (DEST)	R0-15 (SRC1)	R0-15 (SRC2)	00 (UNUSED)
XOR 0011	R0-15 (DEST)	R0-15 (SRC1)	R0-15 (SRC2)	00 (UNUSED)
ANDI 0100	R0-15 (DEST)	R0-15 (SRC1)	IMM (6 bits)	
ORI 0101	R0-15 (DEST)	R0-15 (SRC1)	IMM (6 bits)	
ADDI 0110	R0-15 (DEST)	R0-15 (SRC1)	IMM (6 bits)	
XORI 0111	R0-15 (DEST)	R0-15 (SRC1)	IMM (6 bits)	
BEQ 1000	R0-15 (OP1)	R0-15 (OP2)	ADDR (6 bits)	
BGT 1001	R0-15 (OP1)	R0-15 (OP2)	ADDR (6 bits)	
BLT 1010	R0-15 (OP1)	R0-15 (OP2)	ADDR (6 bits)	
BGE 1011	R0-15 (OP1)	R0-15 (OP2)	ADDR (6 bits)	
BLE 1100	R0-15 (OP1)	R0-15 (OP2)	ADDR (6 bits)	
LD 1101	R0-15 (DEST)	ADDR (10 bits)		
ST 1110	R0-15 (SRC1)	ADDR (10 bits)		
JUMP 1111	ADDR (14 bits)			

R0 0000
R1 0001
R2 0010
R3 0011
R4 0100
R5 0101
R6 0110
R7 0111
R8 1000
R9 1001
R10 1010
R11 1011
R12 1100
R13 1101
R14 1110
R15 1111