1.

RegDst	ALUSrc	MemtoR eg	RegWrite	MemRea d	MemWrit e	Branch	ALUCont rol
WB	EXE	WB	WB	MEM	MEM	EXE	EXE

## 2. IF

- input: Clk, pcsrc, jump, jal, BAddrs, JAddrs, R31

- output: Code, PC4

ID

- Input: Clk, regwrite, Dwrite, Rwrite, Code, PC4

- Output: regwrite, memwrite, memread, AluOp, jump, branch, memtoreg, alusrc, regdst, A, B, Immediate, Code, PC4

## EXE

- Input: regwrite, memwrite, memread, AluOp, jump, branch, memtoreg, alusrc, regdst, A, B, Immediate, Code, PC4

- Output : regwrite, jump, memtoreg, memwrite, memread, pcsrc, Rst, Dwrite, jal, Baddrs, JAddrs, R31, Rwrite, PC4

## MEM

 Input: Clk, regwrite, jumpR, memtoreg, memwrite, memread, Addrs, Dwrite, Rwrite, PC4

- Output : regwrite, jumpR, memtoreg, DataRead, Rst, Rwrite, PC4

## WB

- Input: jumpR, memtoreg, DataRead, Rst, Rwrite, PC4, regwrite

- Output : DataWB, Rwrite, regwrite