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Homework 1

CHIP Not {

IN in;

OUT out;

PARTS:

Nand(a=in, b=in, out=out);

}

CHIP And {

IN a, b;

OUT out;

PARTS:

// Put your code here:

Nand(a=a, b=b, out=t1);

Not(in=t1, out=out);

}

CHIP Or {

IN a, b;

OUT out;

PARTS:

// Put your code here:

Not(in=a, out=notA);

Not(in=b, out=notB);

Nand(a=notA, b=notB, out=out);

}

CHIP Xor {

IN a, b;

OUT out;

PARTS:

// Put your code here:

Not(in=a, out=notA);

And(a=notA, b=b, out=and1);

Not(in=b, out=notB);

And(a=a, b=notB, out=and2);

Or(a=and1, b=and2, out=out);

}