

```

int  s3_sub_uintN(int x0, int x1, bool *c_flg) {
    int temp = x0 - x1;
    if(temp < 0){
        temp += MAX_U + 1;
    }
    if (temp > x0) {
        *c_flg = 0;
    } else {
        *c_flg = 1;
    }
    return temp;
}

```

```

int  s4_sub_intN(int x0, int x1, bool *v_flg) {
    int temp = x0 - x1;

    if(x1 > 0 && x0 < 0 && temp > 0){
        *v_flg = 1;
    }else if(x1 < 0 && x0 > 0 && temp < 0){
        *v_flg = 1;
    }else {
        *v_flg = 0;
    }

    return temp;
}

```

Team Members: Tyler Wise

Halt program here to provide correct update of data

In should be -1, 0, and 1 and X0 and X1 should be N-bit SIGNED integers

Your input: In = 1, X0 = -15, X1 = -14

State = 1, rslt = 3, Cflg = 1

Halt program here to provide correct update of data

In should be -1, 0, and 1 and X0 and X1 should be N-bit SIGNED integers

Your input: In = 1, X0 = -15, X1 = -14

State = 2, rslt = 3, Vflg = 1

Halt program here to provide correct update of data

In should be -1, 0, and 1 and X0 and X1 should be N-bit SIGNED integers

Your input: In = 1, X0 = -15, X1 = -14

State = 3, rslt = 31, Cflg = 0

Halt program here to provide correct update of data

In should be -1, 0, and 1 and X0 and X1 should be N-bit SIGNED integers

Your input: In = 1, X0 = -15, X1 = -14

State = 4, rslt = -1, Vflg = 0