int factor (int grade, int hw) {
    assume (grade>=0 && grade<=100);
    assume (hw>=0 && hw<=100);
    int res = grade;
    res = res + 5;
    res += magen(res,hw);
    if (res > 100){
        res =100;
    }
    assert (res>=0 && res<=100);
    return res;
}

int magen (int x, int hw){
    int p=x;
    if (hw>x){
        p=0.3*hw+0.7*x;
    }
    p=p-x;
    return –p; }

Can you find the bug?

Manual debugging can be really annoying!

Why not let the computer find and fix the problem for you?

Computer Science Department, Technion- Israel Institute of Technology