

```

void mul(void) {
    link a6,#0
    subq.l #8,a7
    x = 1;
    moveq #1,d0
    move.w d0,-2(a6)
    INOUT_WriteInt(x);
    move.w -2(a6),d0
    move.w d0,(a7)
    jsr INOUT_WriteInt (0x20001360); 0x20001360
    TERM_WriteString("\r\n");
    lea 0x20001948 (0x20001948),a0
    move.l a0,(a7)
    jsr TERM_WriteString (0x200012de); 0x200012de
    if (x < 7){
        move.w -2(a6),d1
        ext.l d1
        moveq #7,d0
        cmp.l d0,d1
        bge.s mul+0x68 (0x20001896) ; 0x20001896
        for (i = 10; i >= 0; i--){
            moveq #10,d0
            move.w d0,-4(a6)
            bra.s mul+0x52 (0x20001880) ; 0x20001880
            x = x*2;
            move.w -2(a6),d1
            moveq #2,d0
            muls.w d1,d0
            move.w d0,-2(a6)
            for (i = 10; i >= 0; i--){
                move.w -4(a6),d0
                ext.l d0
                subq.l #1,d0
                move.w d0,-4(a6)
                move.w -4(a6),d0
                ext.l d0
                tst.l d0
                bge.s mul+0x3a (0x20001868) ; 0x20001868
                x = x*5;
                move.w -2(a6),d1
                moveq #5,d0
                muls.w d1,d0
                move.w d0,-2(a6)
                INOUT_WriteInt(x);
                move.w -2(a6),d0
                move.w d0,(a7)
                jsr INOUT_WriteInt (0x20001360); 0x20001360
                TERM_WriteString("\r\n");
                lea 0x20001948 (0x20001948),a0
                move.l a0,(a7)
                jsr TERM_WriteString (0x200012de); 0x200012de
            }
        }
        unlk a6
        rts
    }
}

```