Problem 1

```
        org     100
        load    value
        add     total
        store   total
loop,   load    value
        add     incr
        store   value
        add     total
        store   total
        output
        load    value
        subt    stop
        skipcond 800
        jump    loop
        halt
value,  dec     0
total,  dec     0
incr,   dec     1
stop,   dec     9
```

Problem 2

```
        org     100
        input
        store   one
        input
        subt    inc
        store   two

loop,   load    init
        add     one
        add     prod
        store   prod
        load    two
        subt    inc
        store   two
        skipcond        000
        jump    loop
        load    prod
        output

one,    dec     0
two,    dec     0
prod,   dec     0
init,   dec     0
inc,    dec     1
```