

Bonus point assignment – week 4

Like the factorial example, you can also implement the calculation of a power of 2 in assembly. For example you want to calculate $2^4 = 16$. Use iteration to calculate the result. Store the result in r0.

Main:

```
mov r1, #2
mov r2, #4
mov r0, #1           // (getal moet beginnen met iets)
```

Loop:

```
subs r2, r2, #1      // exponent verwijderen
mul r0, r0, r1        // vermenigvuldigd het resultaat met 2
bne Loop             // loop
```

End:

```
// stopt met loop wanneer getal r2 0 is.
```