```
P(w) = 2 ( 241 w1 + ... + 21 m wm) a1 + ... + 2 (2m1 w1 + ... + 2 m wm) am
 => P(w) = 2 E 3P = 2 ( & a + ... + 2m + om)
 3 P = 2 ( 2 12 181 + ... + 2 m2 am)
  3P = 2 (21m a1 1 ... + 2mm am )
 => | \frac{2p}{5w} = 22Ta |
3(m)= (m1... mu) ( 511 m1 + ... + 51 m mu) ( 511 524 ... 5m) ( 211 511 ... 5m) ( 211 511 ... 5m)
=> Q(w) = wi(2112m1+...+ 812mm) + ...+ mm (2m2m1+...+ 2m2mn)
  =) Ja = 22112 wi + 212212 wi + ... + 2 wi 2mi2
        3G = 2 242 w2 + 2w2 222 + ... + 2w2 2m2
                                                       3 3 a a = 0
 <u>Da</u> = 22<sup>T</sup>2 w => | <u>JE</u> = <u>JB</u> - <u>JP</u> - 22<sup>T</sup>2 w - 22<sup>T</sup>q=c
  =) 22T2 w - 22Ta = 0
       2 2^{T} 2 w = 2 2^{T} a \implies 2^{T} 2 w = 2^{T} a
= \sum_{w = (2^{T} 2)^{-1}} 2^{T} a = \sum_{w = (2^{T} 2)^{-1}} 2^{T} (e^{-t}) = w
  => | w = ( &(x) | p(x) | -1. &(x) | . ( G -t ) ]
```