mantissa = front bin [1:]

+ back-bin

"0011010"

="001101011101"

mantissa - truncated =

```
mantissa [0:23]
```

Nogative Exponents (1;) back_bin 0.001011011101 al was be zero! need to search back-bin to find the first "1". exponent = P Reep-joiny = True while keep-going: if back-bin [-exponent] =="1" 20ep-going = False exponent = exponent+1 exponent = exponent -] exponent = exponent - 1 = back-bin [-exponent:] mants (Sa -

truncated

" 001,011011101," back-bin =

exponent

keep-going

Loop It.

True

back-bin [0]

= 1100"

-1

True

back-bin [1] = "\$\p'

True

beck-bin [2] = "1"

False

-2-3

Loop endi

exponent = -3,

martissa - truncated = 011011101

```
Convert to 32-bit
 Stop 6:
                 floating point rep.
     if int (front) < 0:
             6771 = "I"
              bi71 = " $\psi'
                         23 bits
         8673
      exp = int (exponent) + 127
      exp-dinavy-rep = convert-int-to-
                            binary (exp)
      if len (exp-binary-rep) < 8:
           exp-binary-rep="6" +
                           exp-binary- rep
       if len (mantisa-truncated) < 23:
(iii)
```

pad ->

+ (23-len (mantissa-truncold))

with

Zeroes

if len (mantisse-truckel) >23:

mantissa - truckel =

mantissa - truckel =

mantisse - truckel [0:23]