150

cat bat sat
rat cat mat
pat bat sat

200

fat gat
zat pat
rat mat

275

cat sat
hat lat
mat rat

cat	bat	sat	rat	mat	pat
2	2	2	1	1	1

((cat, 150), 2)

((bat, 150), 2)

((sat, 150), 2)

((rat, 150), 1)

((mat, 150), 1)

((pat, 150), 1)

((fat, 200), 1)

((gat, 200), 1)

((zat, 200), 1)

((pat, 200), 1)

((rat, 200), 1)

((mat, 200), 1)

((cat, 275), 1)

((sat, 275), 1)

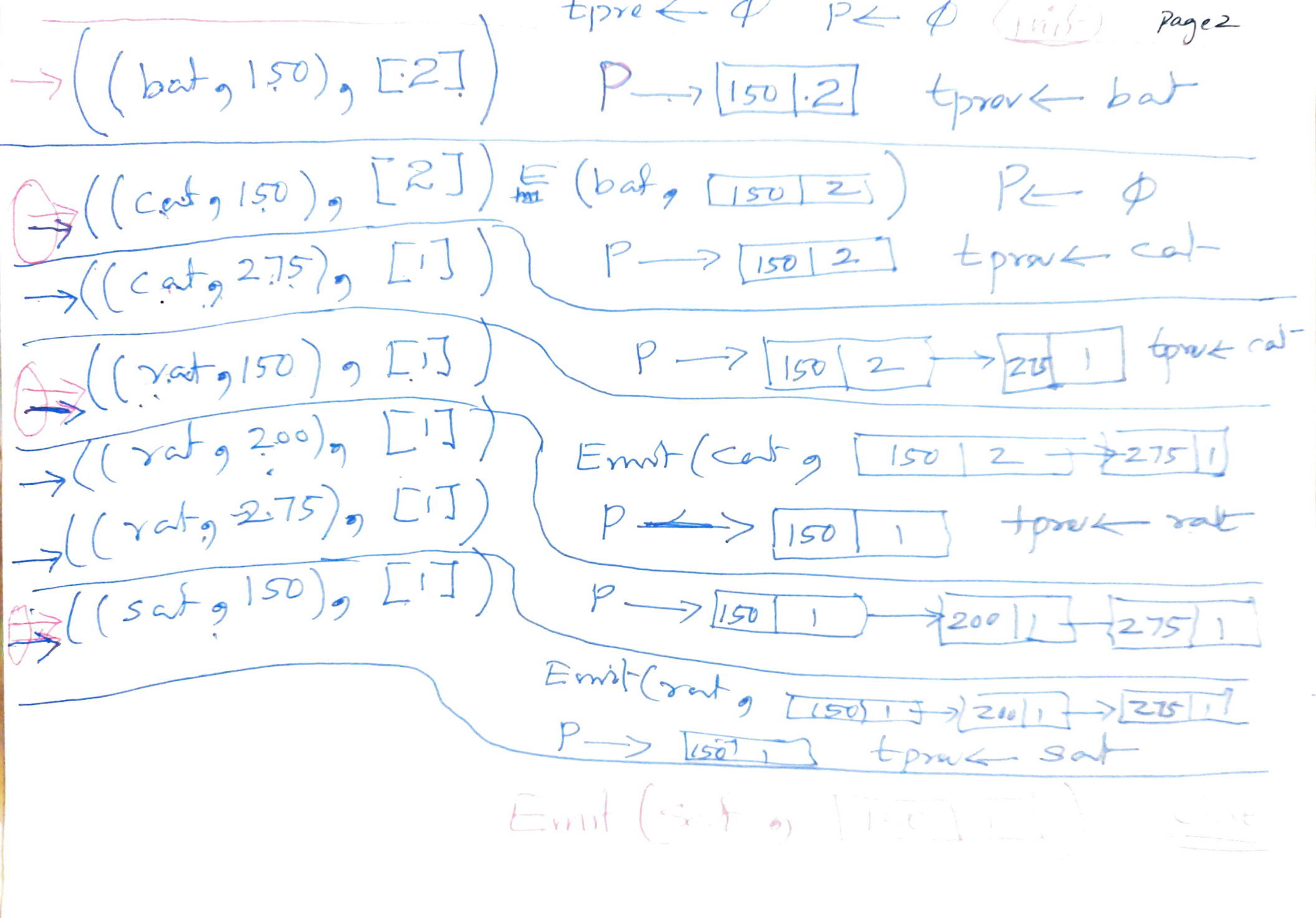
((hat, 275), 1)

((lat, 275), 1)

((mat, 275), 1

((rat, 275), 1

cat, bat, sat, rat	fat, mat, pat, hat
R0	lat, gat, zat


tprev ← ϕ
P ← ϕ
init
→((bat, 150), [2])
P → 150 | 2
tprev ← bat
→((cat, 150), [2]) ∈ (bat, 150 | 2)
P ← ϕ
→((cat, 275), [1])
P → 150 | 2
tprev ← cat
→((rat, 150), [1])
P → 150 | 2 → 275 | 1
tprev ← cat
→((rat, 200), [1])
Emit(cat, 150 | 2 → 275 | 1)
→((rat, 275), [1])
P → 150 | 1
tprev ← rat
→((sat, 150), [1])
P → 150 | 1 → 200 | 1 → 275 | 1
Emit(rat, 150 | 1 → 200 | 1 → 275 | 1)
P → 150 | 1
tprev ← sat

$[(500, 75), (2048, 31), (5000, 17)] = 18$

50.0 75 2048 3.1 50.00 17

Applying d-gap

500 75 1548 31 2952 17

500 = 1 | 111 0100

0000 0011 | 1 111 0100

75 = 100 1011

1 100 1011

500
256
244
128
116
64
52
32
20
16
4
4
0

75
64
11 = 8+2+1

1548 = 1100 0001100

0 0001100 | 1 000 1100

31 = 11111 | 1 001 1111

Variable length Integer coding (VarInt)

2952 = 10111 0001000

0001 0111 | 1 000 1000

17 10001 | 1001 0001

9 bytes

0000 0011 | 1111 0100 | 1100 1011 | 0000 1100 | 1000 1100 | 1001 1111