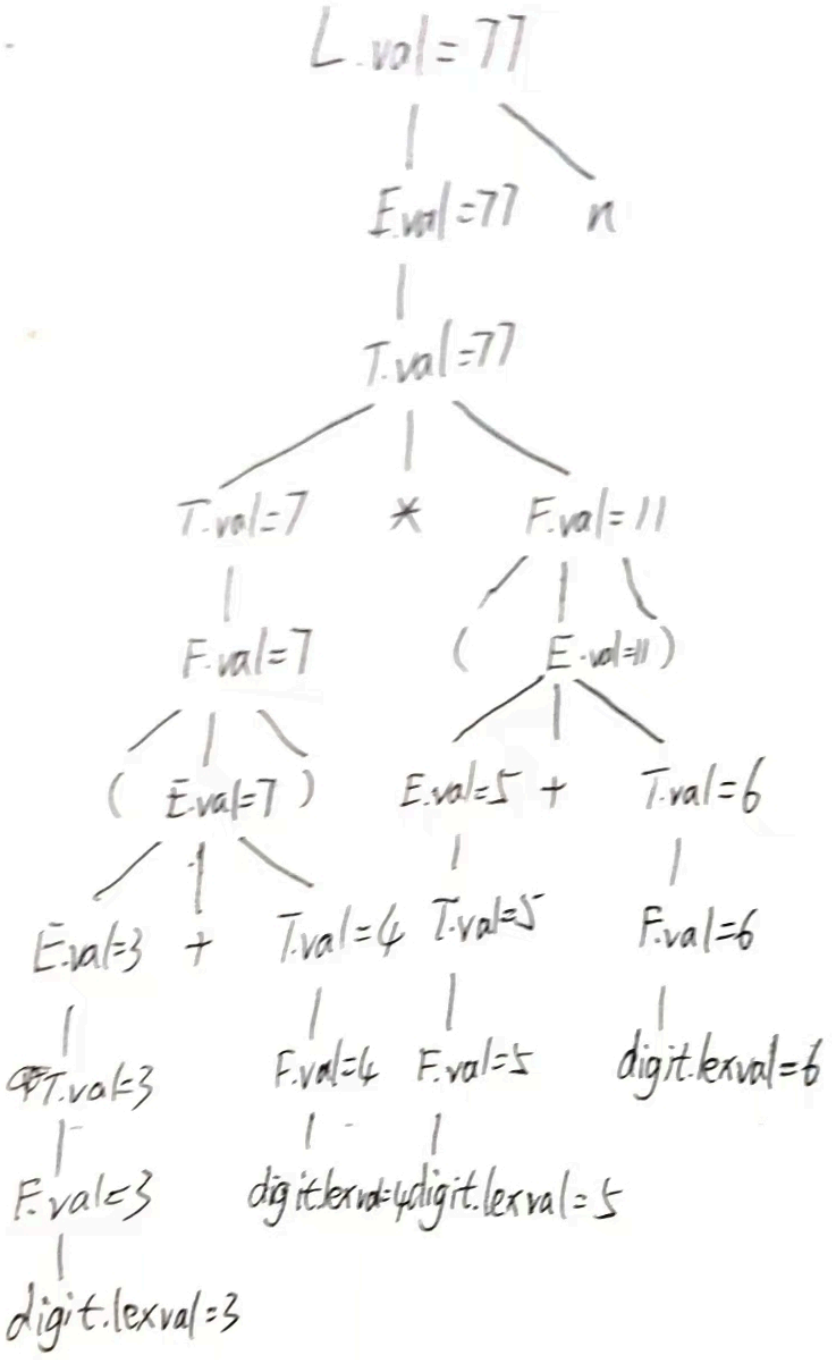
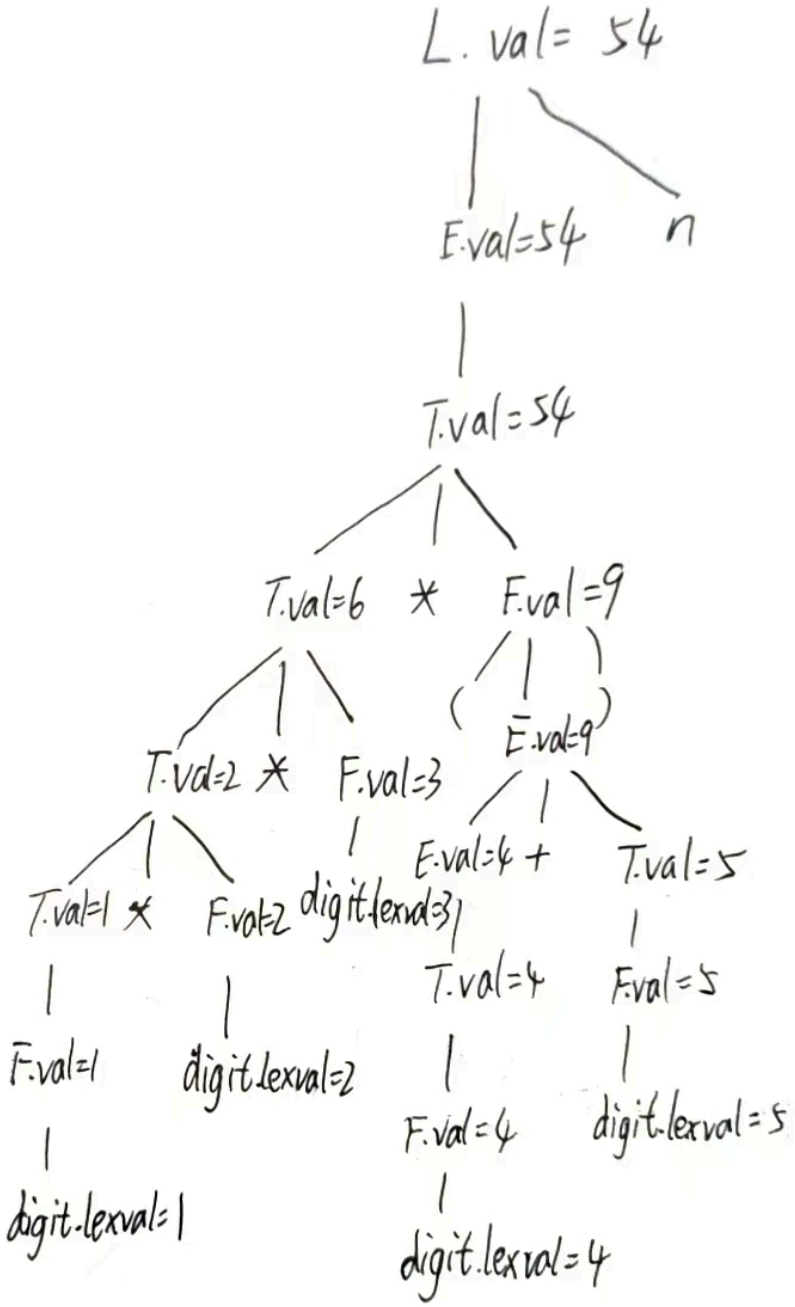
Exercise 1

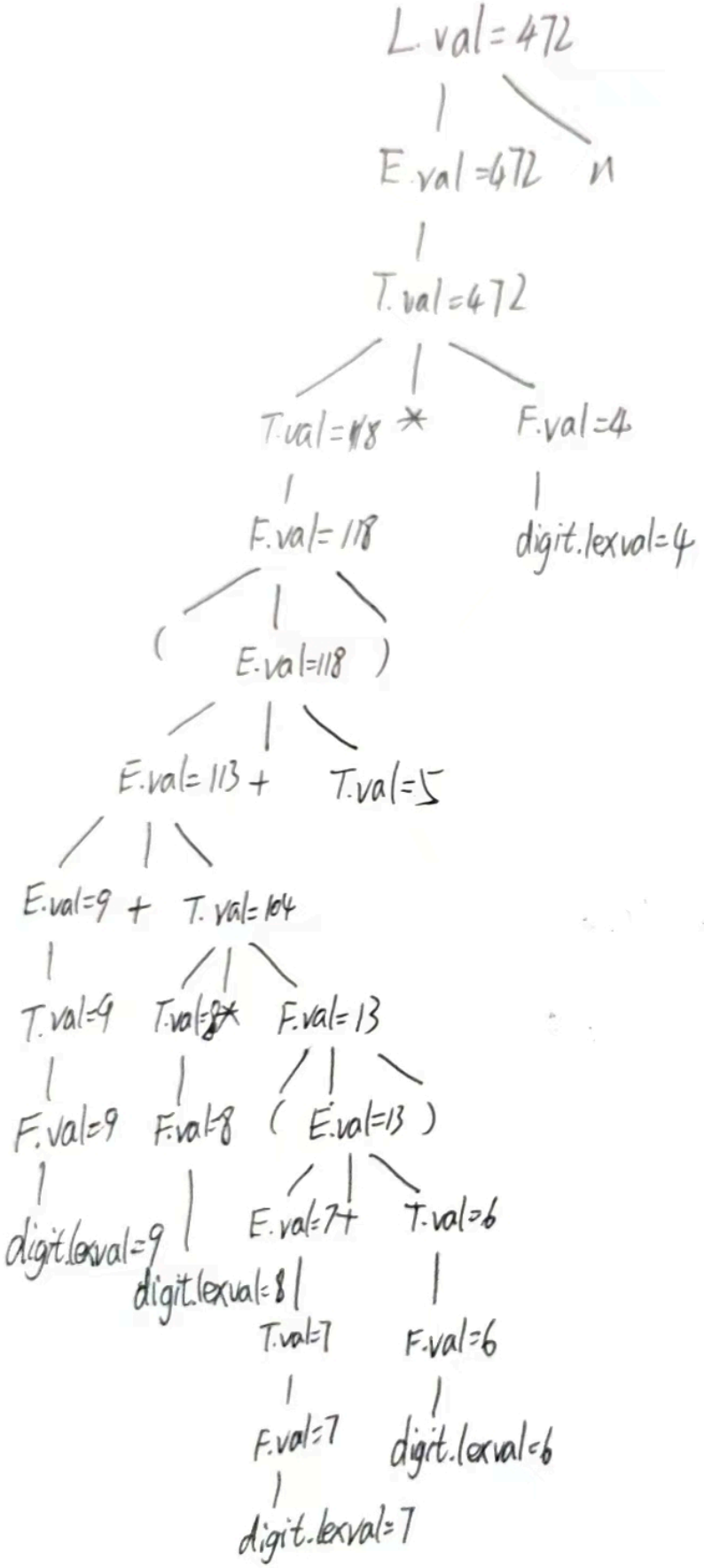
1.


L.val=77
E.val=77
n
T.val=77
T.val=7
*
F.val=11
F.val=7
(
E.val=11)
(
E.val=7)
E.val=5
+
T.val=6
E.val=3
+
T.val=4
T.val=5
F.val=6
T.val=3
F.val=4
F.val=5
digit.lexval=6
F.val=3
digit.lexval=4
digit.lexval=5
digit.lexval=3

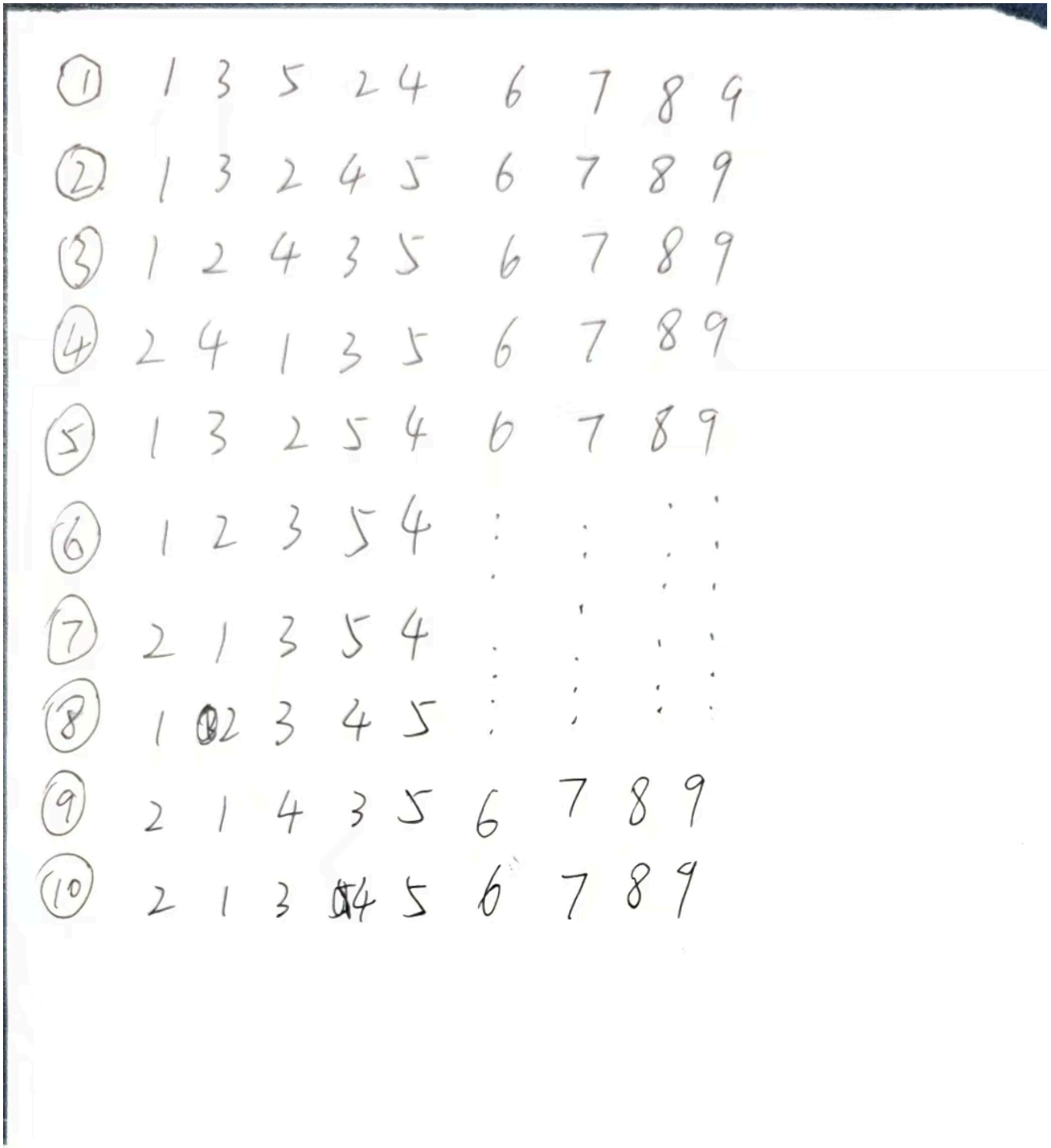
2.


L.val=54
E.val=54
n
T.val=54
T.val=6
*
F.val=9
(
E.val=9
)
T.val=2
*
F.val=3
E.val=4
+
T.val=5
T.val=1
*
F.val=2
digit.lexval=3
T.val=4
F.val=5
F.val=1
digit.lexval=2
F.val=4
digit.lexval=5
digit.lexval=1
digit.lexval=4

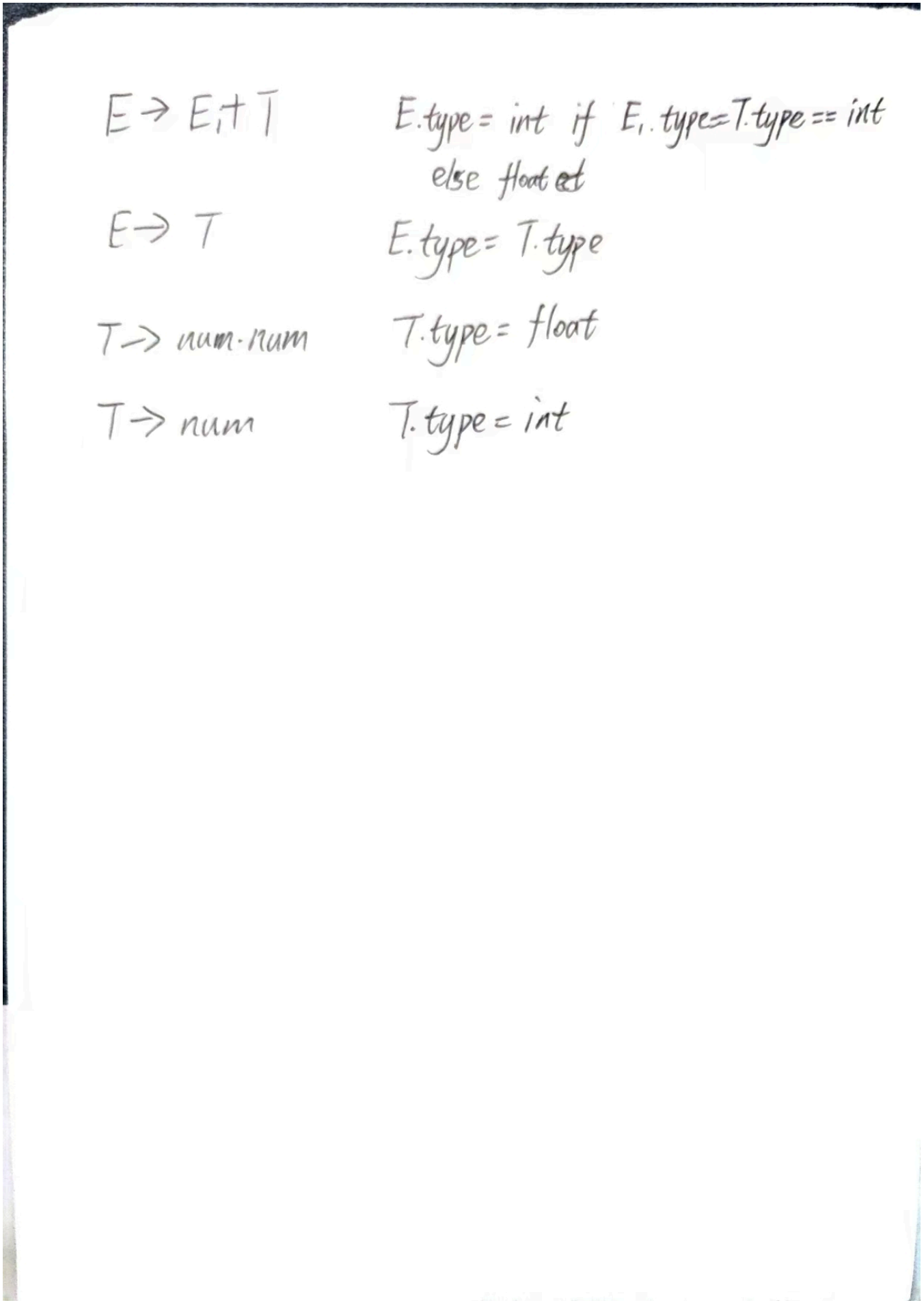
3.


L.val=472
E.val=472
n
T.val=472
T.val=118
*
F.val=4
F.val=118
digit.lexval=4
(
E.val=118
)
E.val=113
+
T.val=5
E.val=9
+
T.val=104
T.val=9
T.val=8
*
F.val=13
F.val=9
F.val=8
(
E.val=13
)
digit.lexval=9
digit.lexval=8
E.val=7
+
T.val=6
T.val=7
F.val=6
F.val=7
digit.lexval=6
digit.lexval=7

Exercise 2


① 1 3 5 2 4 6 7 8 9
② 1 3 2 4 5 6 7 8 9
③ 1 2 4 3 5 6 7 8 9
④ 2 4 1 3 5 6 7 8 9
⑤ 1 3 2 5 4 6 7 8 9
⑥ 1 2 3 5 4
⑦ 2 1 3 5 4
⑧ 1 2 3 4 5
⑨ 2 1 4 3 5 6 7 8 9
⑩ 2 1 3 4 5 6 7 8 9

Exercise 3


E → E1 + T
E.type = int if E1.type == T.type == int
else float
E → T
E.type = T.type
T → num.num
T.type = float
T → num
T.type = int