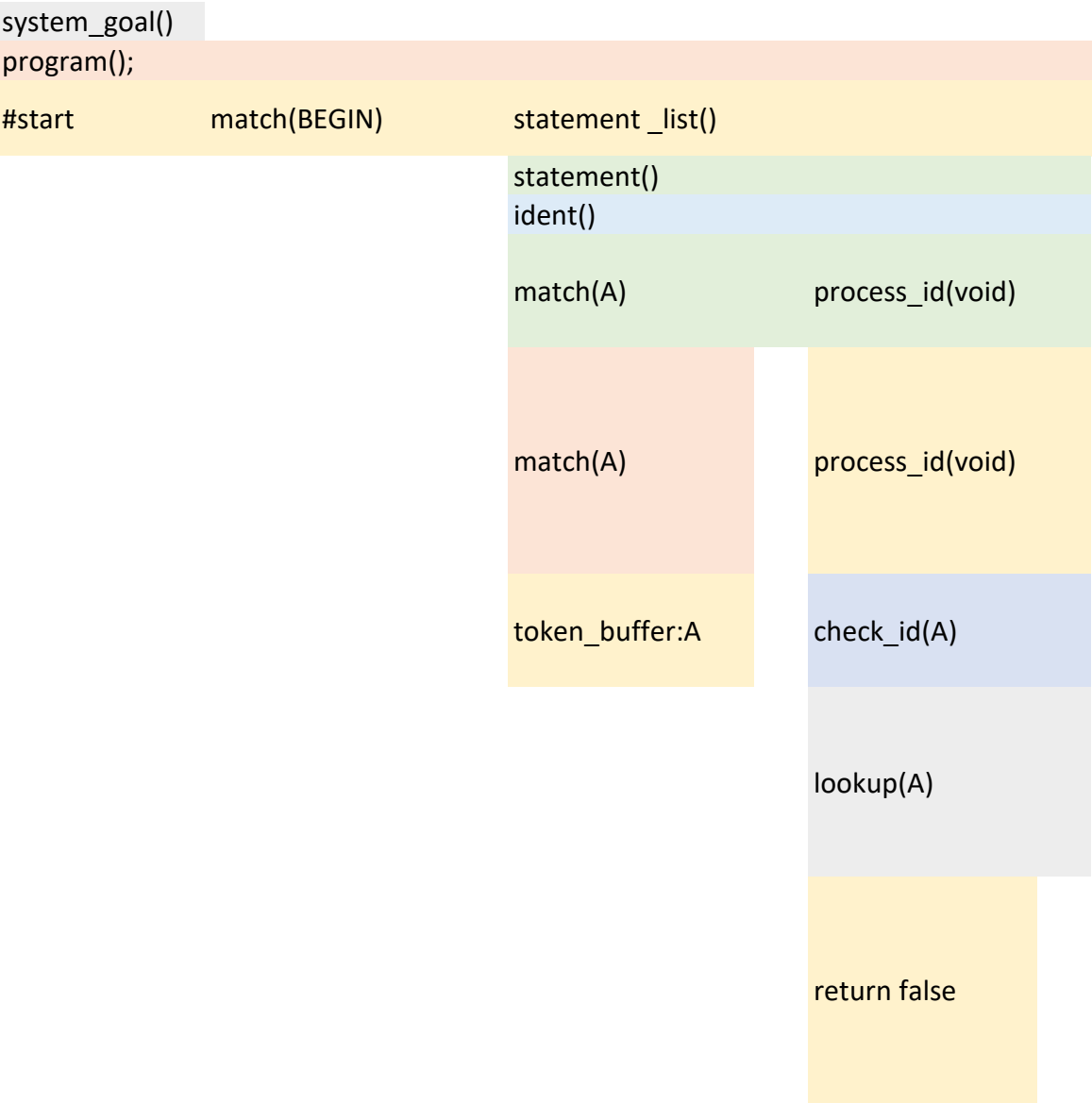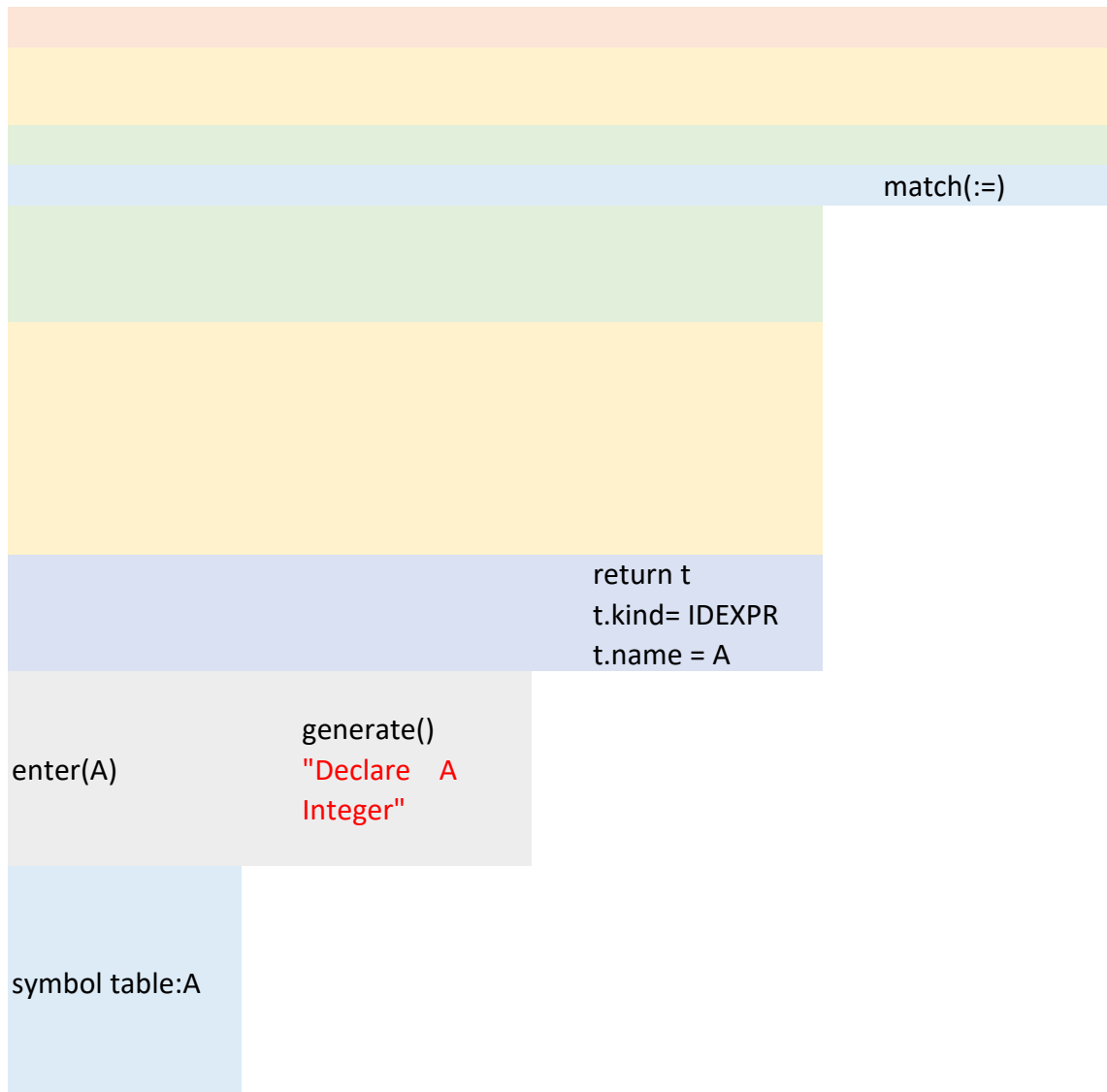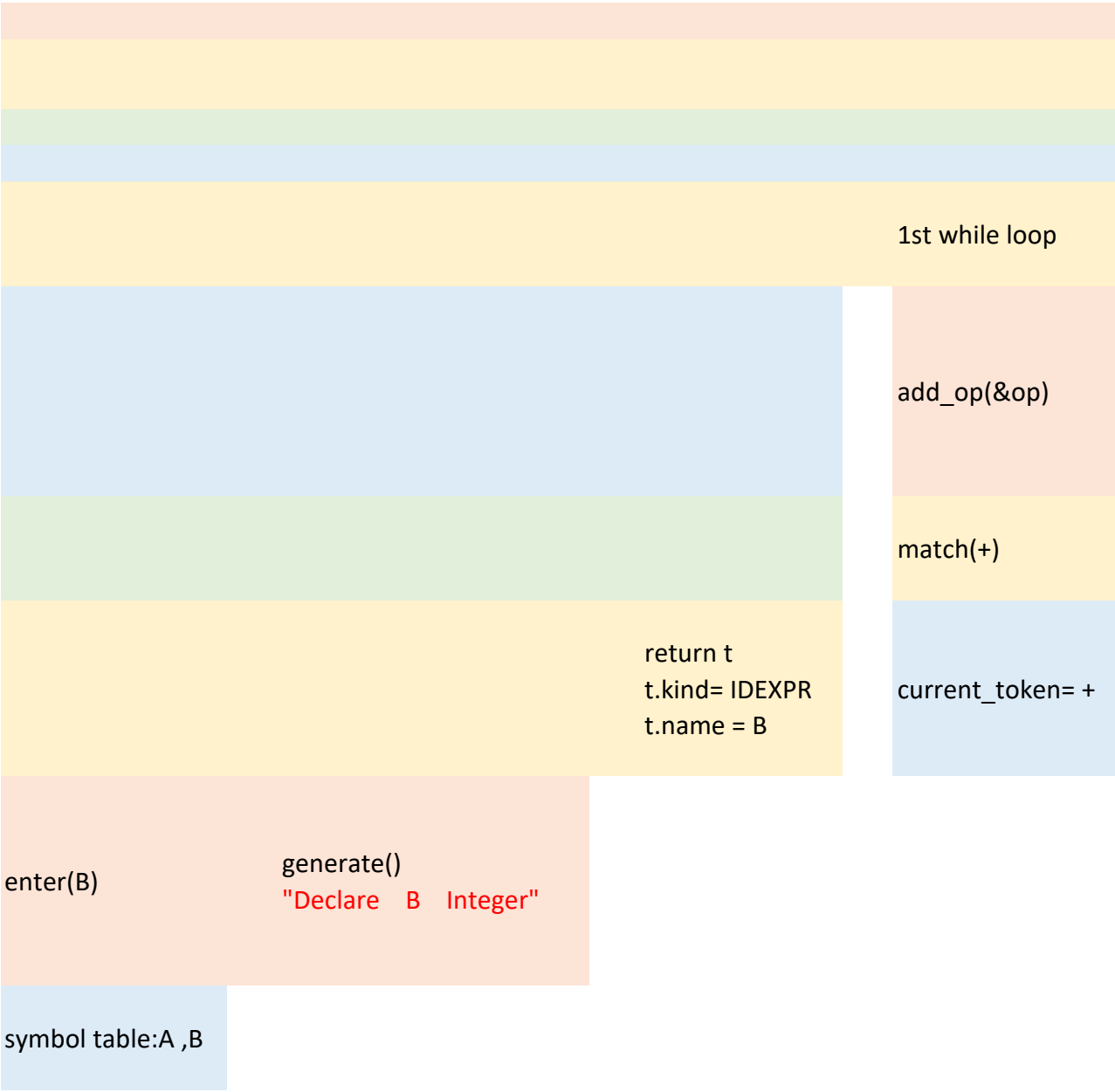BEGIN A := B + (C - 365) ; END SCANEOF
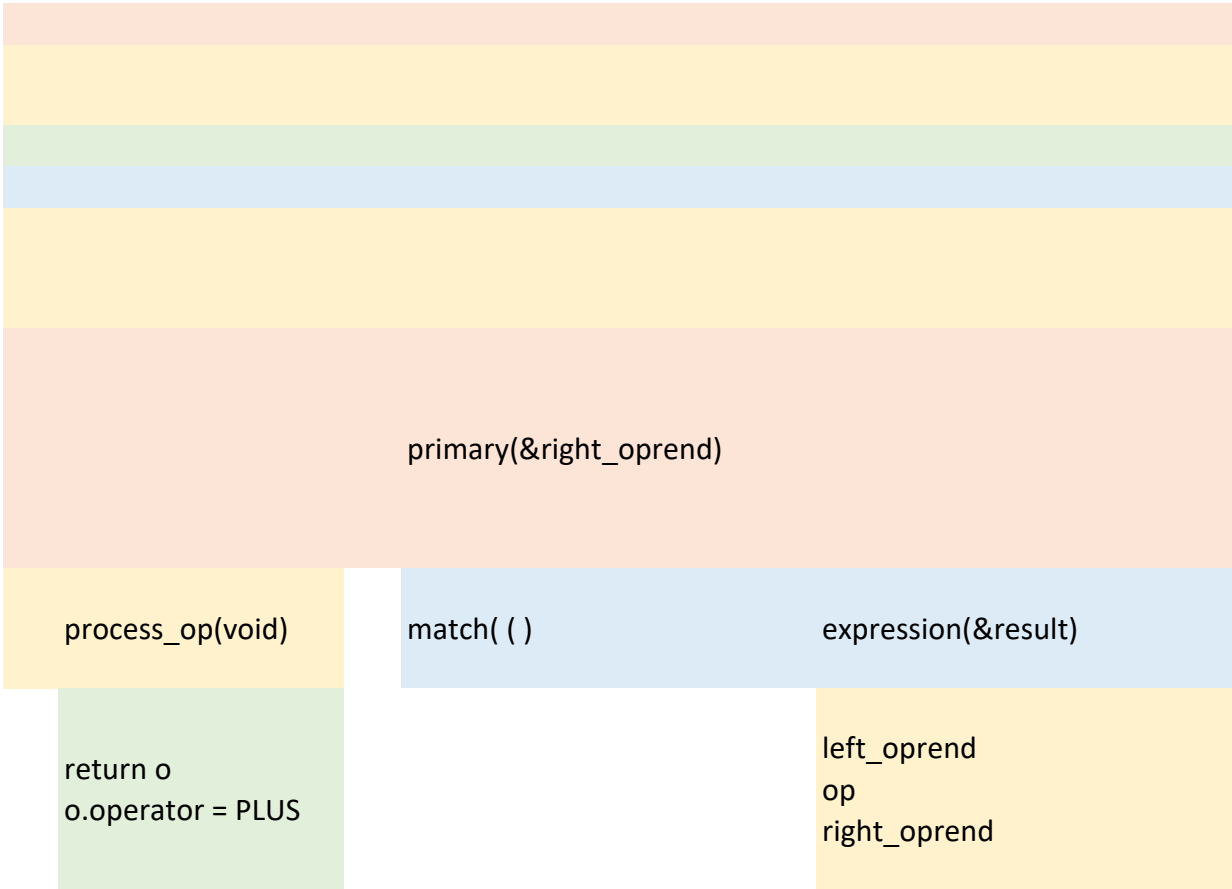
system_goal()

program();

#start   match(BEGIN)   statement _list()

statement()

ident()

match(A)   process_id(void)

match(A)   process_id(void)

token_buffer:A   check_id(A)

lookup(A)

return false

:

match(:=)

return t
t.kind= IDEXPR
t.name = A

enter(A)

generate()
"Declare   A
Integer"

symbol table:A

expression(&result)

left_oprend
op
right_oprend

primary(&left_oprend)

ident()

match(B)

process_id(void)

token_buffer:B

check_id(B)

lookup(B)

return false

1st while loop

add_op(&op)

match(+)

current_token= +

return t
t.kind= IDEXPR
t.name = B

enter(B)

generate()
"Declare   B   Integer"

symbol table:A ,B

primary(&right_oprend)

process_op(void)

match( )

expression(&result)

return o
o.operator = PLUS

left_oprend
op
right_oprend

primary(&left_oprend)

ident()

match(C)   process_id(void)

token_Cuffer:C   check_id(C)

                                 lookup(C)   enter(C)

1st while loop

add_op(&op)

match(-)

return t
t.kind= IDEXPR
t.name = C

current_token= -

generate()
"Declare   C   Integer"

primary(&right_oprend)

process_op(void)

match(365)

#process_literal

return o
o.operator = MINUS

token_buffer:365

return t
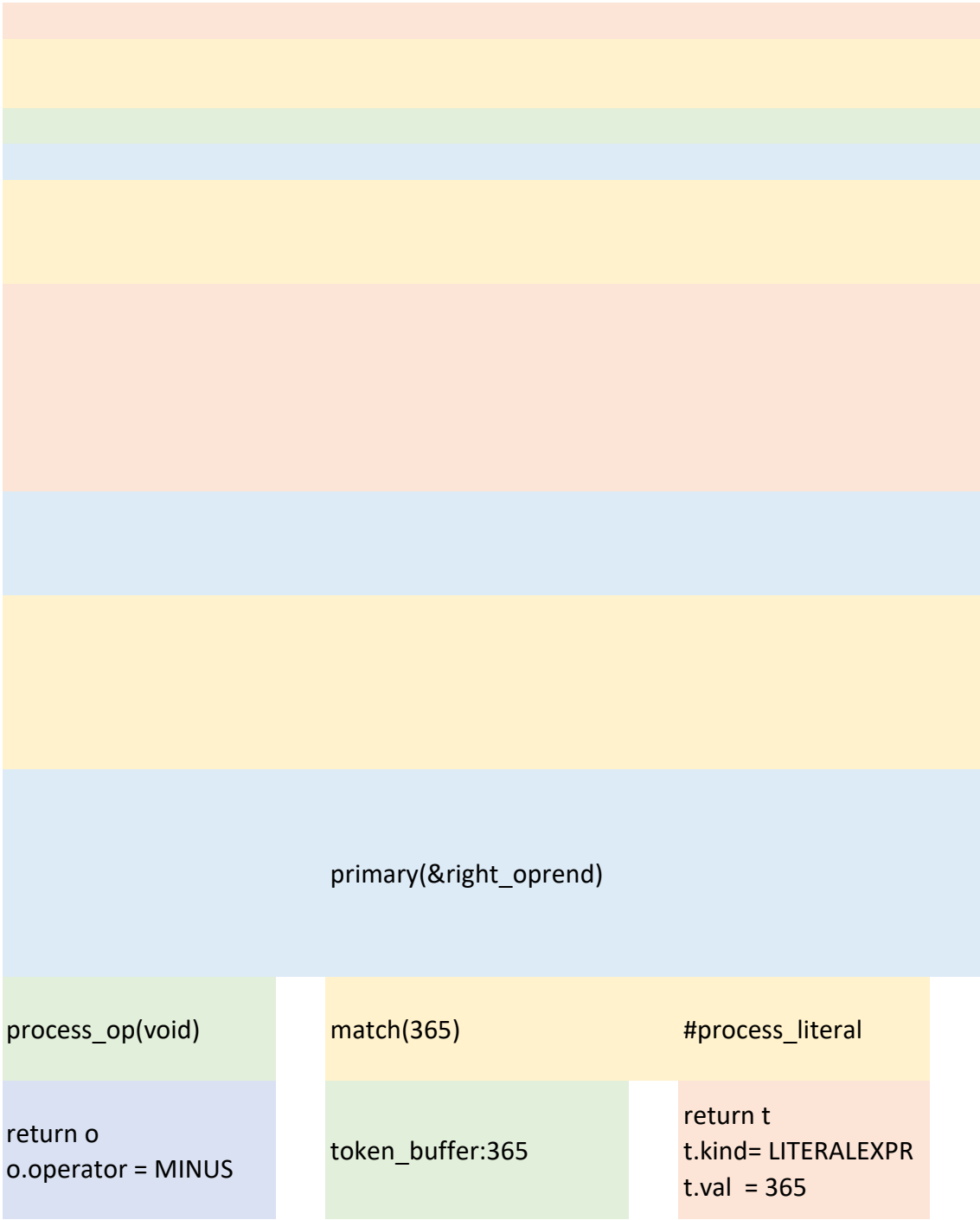t.kind= LITERALEXPR
t.val = 365

left_oprand=
gen_infix(
    left_oprand   , op   , right_oprend   )
    e1.kind= IDEXPR , op.operator = MINUS , e2.kind= LITERALEXPR
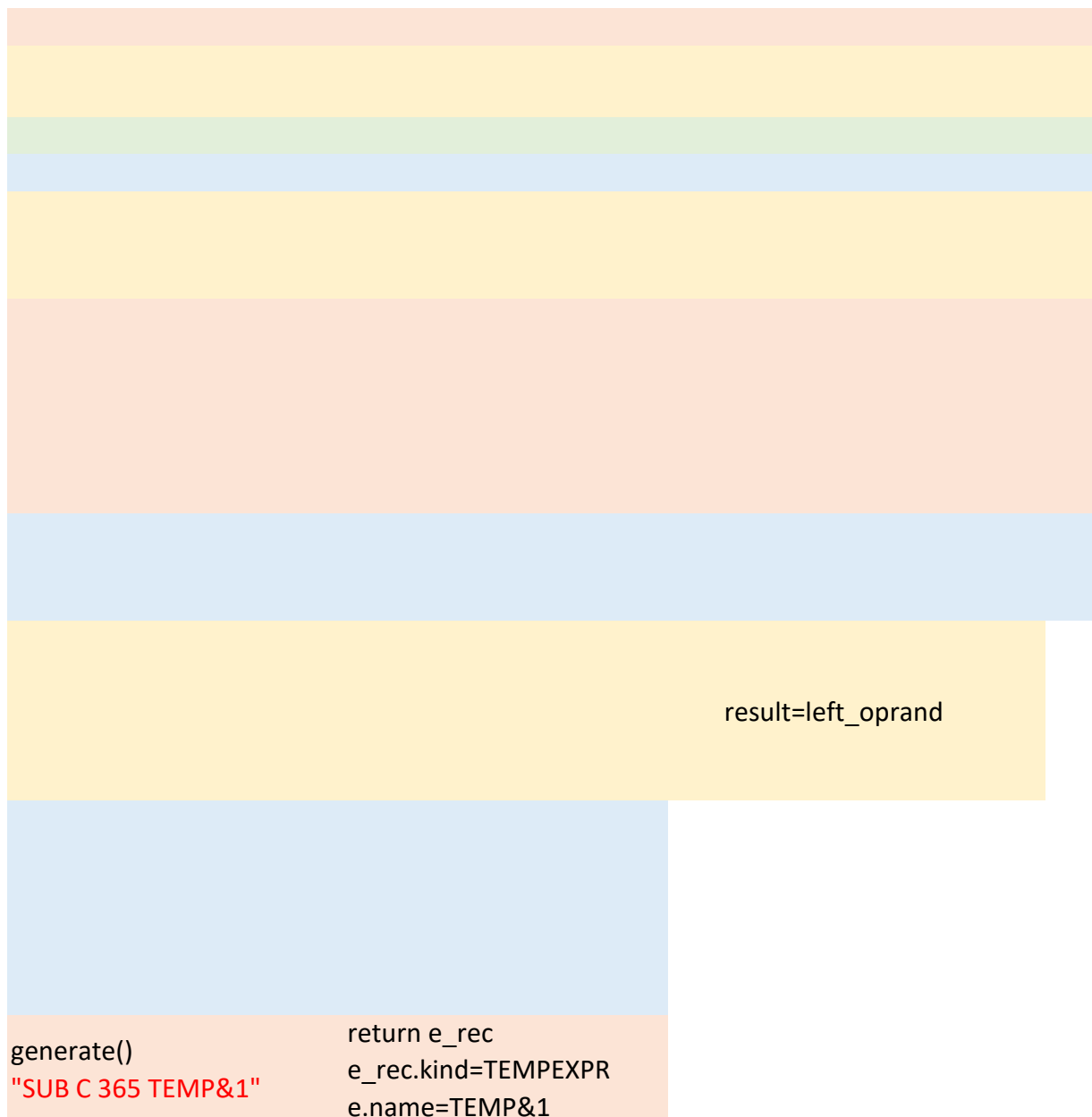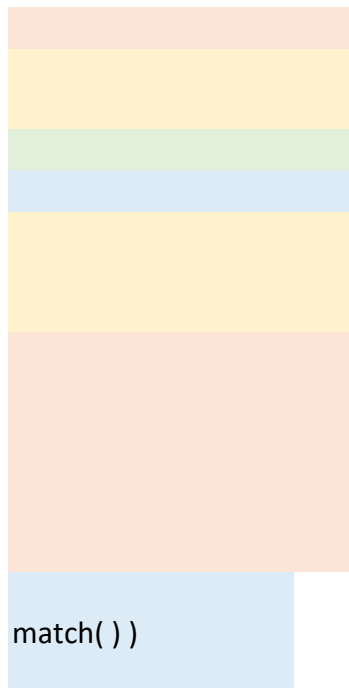   e1.name = C   e2.val =365

get_temp()

max_temp=1
check_id(TEMP&1)

lookup(TEMP&1)

return false

return "TEMP&1"

enter(TEMP&1)

generate()
"Declare   TEMP&1   Integer"

symbol table:A ,B,C,TEMP&1

result=left_oprand

generate()
"SUB C 365 TEMP&1"

return e_rec
e_rec.kind=TEMPEXPR
e.name=TEMP&1

match( ))
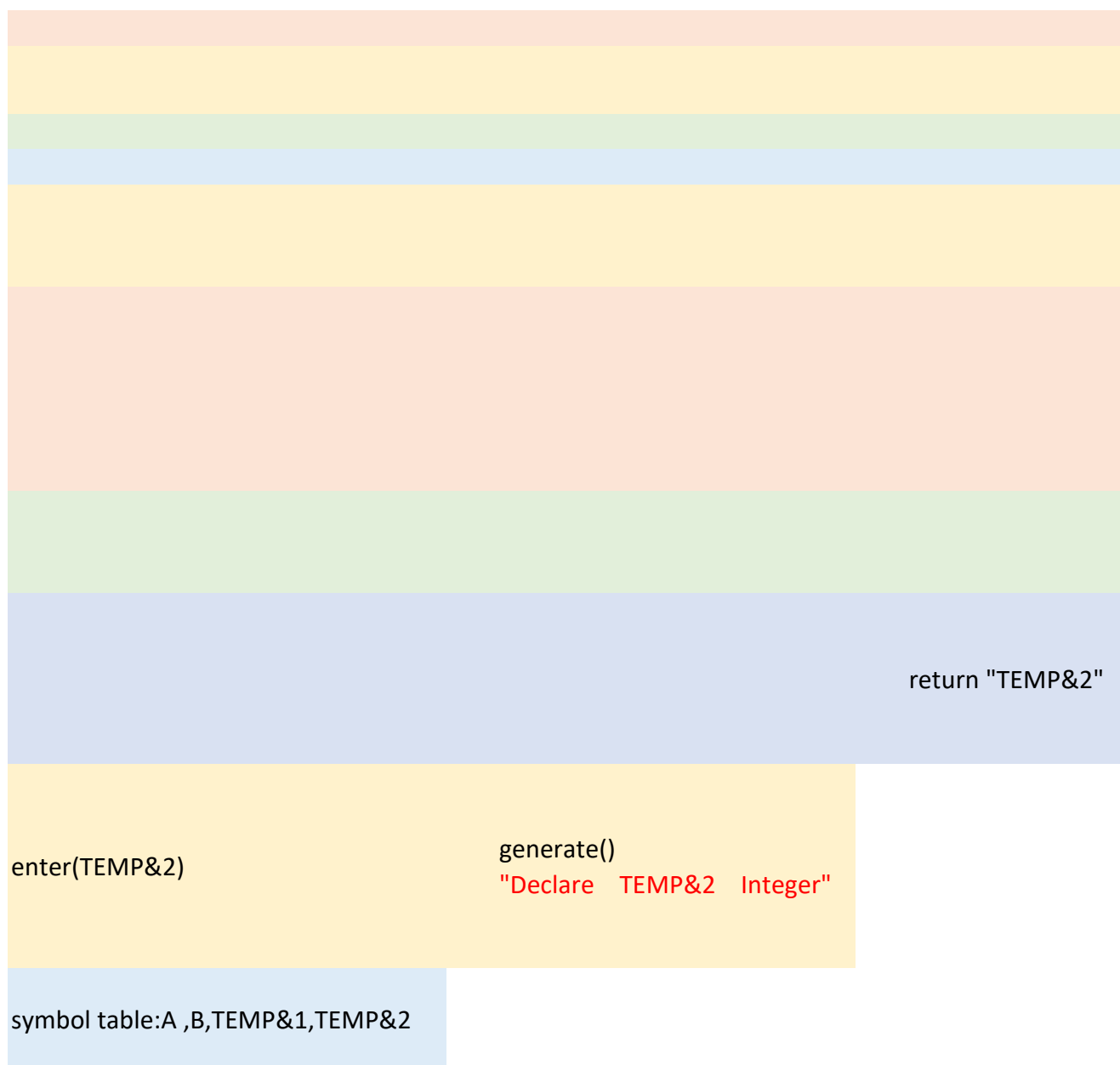
left_oprand=
gen_infix(
    left_oprand   ,   op   , right_oprend   )
    e1.kind= IDEXPR , op.operator = PLUS   , e2.kind= TEMPEXPR
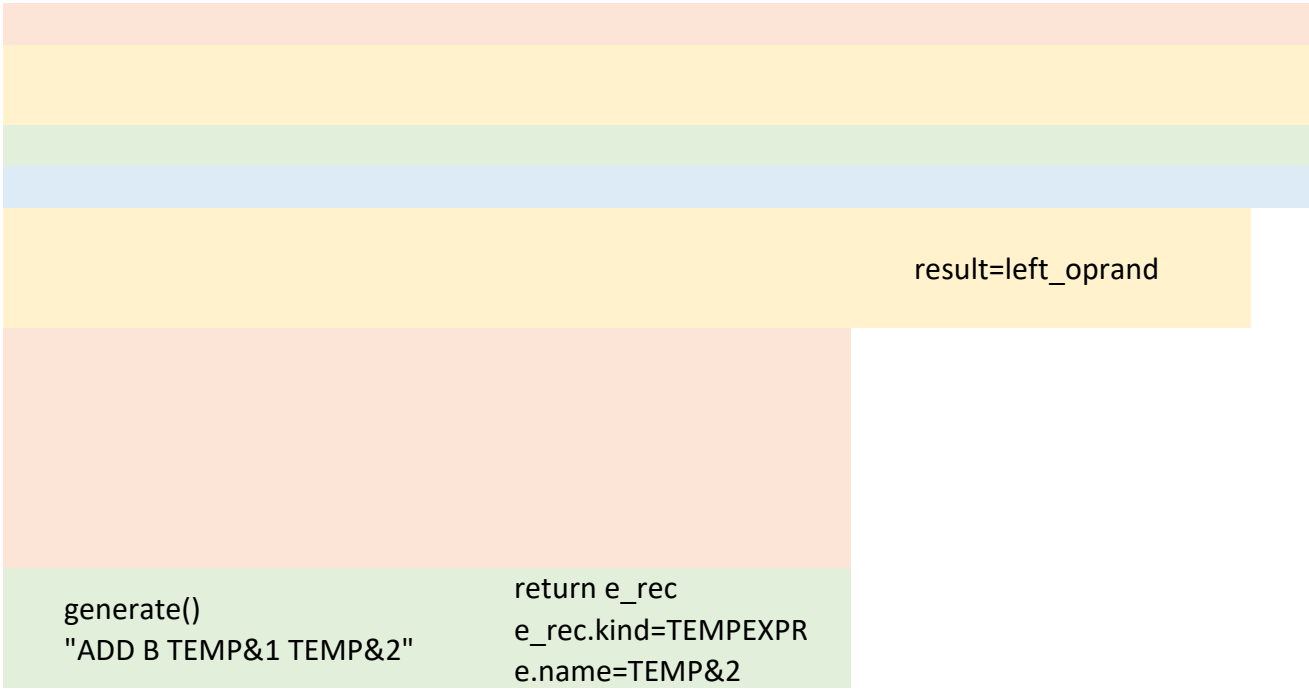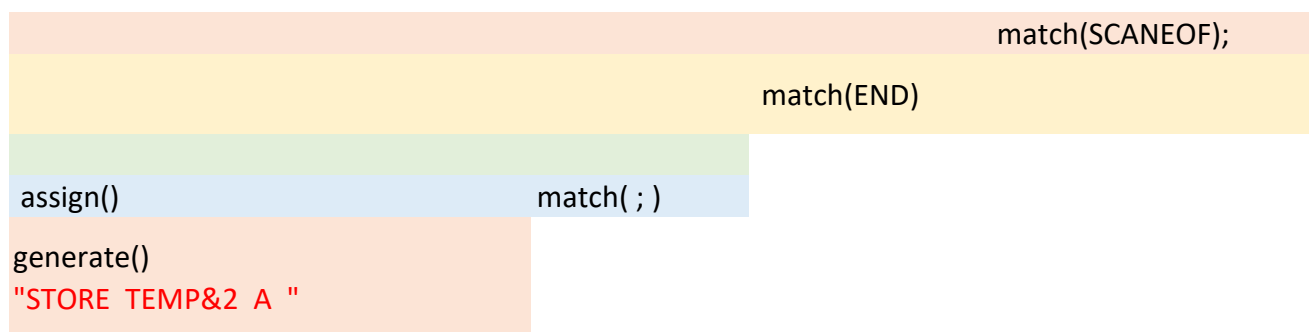   e1.name = B   e.name=TEMP&1

get_temp()

max_temp=2
check_id(TEMP&2)

lookup(TEMP&2)

return false

return "TEMP&2"

enter(TEMP&2)

generate()
"Declare   TEMP&2   Integer"

symbol table:A ,B,TEMP&1,TEMP&2

result=left_oprand

generate()
"ADD B TEMP&1 TEMP&2"

return e_rec
e_rec.kind=TEMPEXPR
e.name=TEMP&2

match(SCANEOF);

match(END)

assign()   match(;)

generate()
"STORE TEMP&2 A "

```
#finish
generate()
"HALT"
```