eql is ==
gtr is >
lst is <
lste is <=
mdl is %
and is &&
block of code is delimited by &
ret is return
assignment operator is :
multiply operator mul
div operator is div

---

p1

```
num_list : [3, 5, 4, 8];
max : -Inf;

while (i lst num_list.len) &
    if ( num_list[i] gtr max ) &
        max : num_list[i];
    &
    i : i + 1;
&

ret max;
```

---

p2

```
num : 16;
d : 2;
is_not_prime : true;

while ( d mul d lste num and is_not_prime) &
    if ( num mdl d eql 0 ) &
        is_not_prime : false;
    &
    d : d + 1;
&

ret is_not_prime;
```

---

p3

```
num_list : [1,2,3,4,5];
sum is 0; ///lexical error

while ( i < num_list.len ) &
    sum : sum + num_list[i];
    i : i + 1;
```

&

---

p4

```
num_list: [1,2,3,4,5];

while ( i < num_list.len ) &
    num_list[i] : num_list[i] + 1;
    i : i + 1;
&

ret num_list;
```