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```
\sigma(P,T,D)
P-
T-
D-
                                                                 C=(P,T,I,O)
Р
       т -
P-
T-
0-
I-
                          ; I:T\rightarrow P
                                                                                     2
              T(P).
                                                           C_{\mu} = (P,T,I,O,\mu)
                                                      \mu_0 –
                                                               \begin{array}{c} G \\ G = t_{J1}, \ldots, \ t_{JK} \end{array}
                                                                                      μ:
                                                                 \mu = \mu_0, ..., \mu_K
                                                       G
                                                              μ
                                                                                                                                               ).
                                                                                                                         μ,
```

```
\mu(x) = \mu(y),
                                     х
                                                                         У,
                                                                                                                               х
1.1
1.
            p_{i}
                                                                                            \mu(p_i) <=1 (
                                                 ,
<=1).
2.
             p_i
                                                        k.
                                                                                   k-
            k-
З.
                                                          P P
                                                         \mathbb{E} \ \mu_0(p_i) = \mathbb{E} \ \mu(p_i)
                                                         \mu_0
                                                             \mu_0 .
4.
                                                              1
5.
                                                      \mu_{\text{0}}
1.2
1.
                 t
                                                                             \mu_{\text{0}}
                                                                                                                 (L_0
                                      \mu_0 .
2.
                 t
                                                                                 L_1
                                                                              \mu_{\text{0}}
3.
                                                                                                          k
                                  L_2
                                             k
4.
                                  L_3
                       \mu_{\text{0}}
5.
                                  L_4
                                                                               L_1
                                                                                                                          1
                                                                          L_4
1.3
                                                                       μ''
                                    \mu''. [\mu''(1506)
                                                                   \mu'(1000)]
                               μ'
                                                                       μ'
                                                                                                                      μ''
```

```
. [\mu''(1\omega40)
                            \mu'(1240) \omega >= 2 4>= 4
1.4
1.
2.
3.
1.
2.
3.
4.
1.
2.
3.
4.
2
2.1
2.2
1.
2.
3.
2.2.1
       =<P,T,E,U,\mu_0>, U -
```

2.2.2 2.2.3 t t  $N_R = \langle N, t, 0 \rangle$  , N -; t -> R - $\delta \in R$ . δ. 2.2.4

```
7
```

< Y ,P ,R ,A ,M > , Υ -; R-( Windows 1.0»: 3 3.1 (1973 ={ 0, 1,..., N,...} ( ). (x) = |x0| \* |x1| \*...1. 2. - («

```
3.
                                            ( )
                                                               ( ).
2.
3.2
        (thread)
                                                     (primary thread).
                                                      : 0 - , 31 -
3.3
(
              ).
3.4
```

3.5

3.6 1. 2. 3.

3.7						
<b>«</b>	, , ,		:	,	« »	
3.7.1						
- -			, ,	-	;	•
3.7.2						
1. 2.	•	: (			);	,
3.7.3	«	<b>»</b>				
mutex).					(mutual exclusion	
	_		,		;	_
	· , , , , , , , , , , , , , , , , , , ,		,		;	
_	),		0 (			

```
3.7.4
```

```
V.
                                                                        Ρ
                S.
              P(S):S-1,
                                            1.
S 1.
              V(S):S+1,
                  P(S):
1.
         S>=0,
                                                ;
2.
         S<0,
                                                                                            S (
                                                          V(S),
                  ).
V(S):
1.
         S>0,
2.
         S<=0,
                     (
                                                           V(S),
            ,
P
                 V
                                                                        Р
                                                                               V
S;
             Р
                 V
                    Ρ
                                                                              1.
                                               P(S)
                       i
                                               V(S)
        2-
                                                         -1:
                        S
                                                1,0
        S=1,
        ;
        S=0,
        S=-1,
                                 S,
3.7.5
                                     )
```

```
4
1.
2.
з.
                             );
4.
5.
6.
1.
2.
3.
1.
2.
3.
                                                                                                                )
1.
   b.
                                 )
   b.
   c.
```

( )

```
4.1
```

4.

```
(x);
       y:=1;
                                  * y:=a;
* 1: p(x)
1:
                                                         11;
                        11;
                                        y := g(x,y);
        y:=x*y;
                                      x := h(x);
        x := x-1;
          1;
                                          1;
                                  * 11:
          (y)
                                           (y)
4.1.1
1. = \{ 1, 2... ; 1, 2...; z, z_1, z_2... \} -
2. F = \{f^{(0)}, f^{(1)}, f^{(2)} \dots; g^{(0)}, g^{(1)}, g^{(2)} \dots; h^{(0)}, h^{(1)}, h^{(2)} \dots\} -
                                                                     a, b, c...;
{ (U), q(U), ...} -
4. { , , , , , := . .} -
1.
    t f^{(n)}(t_1, t_2...t_n),
                                   t_1, t_2... t_n - , ... 1, 2,
2.
: , f^{(0)}, , f^{(1)}( ), g^{(2)}(x, h^{(3)}(y, a)).
(t_1, t_2... t_n), (t_1, t_2... t_n)
p^{(0)}, p^{(0)}(), p^{(2)}(f^{(2)}(x, y)).
1.
                                              (t_1, t_2...t_n),
2.
3.
                                          :=t, -
```

5.--.

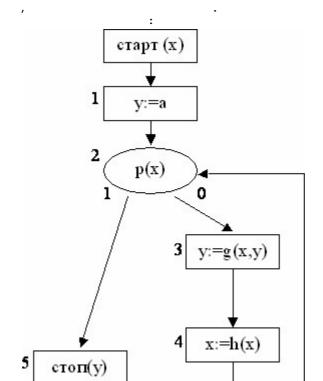
4.1.2

1. ( );

3. - . .

0. , 1 S, S, 1,

(0, 1, 2...).



- - .

1. ( 1, ... n)

2. S 0: (1, ..., n) = 1; 1: t, n

1: x:=t 11; S 1 -

3.  $(t_1, \ldots t_m),$   $1: \qquad (t_1, \ldots t_m);$ 

```
15
```

```
4.
                           S
                                                                               (t1,...tk),
                                                                                                    1-
                                                                              10,
                                         (t_1, \ldots t_k)
                                                          11
                                                                     10;
5.
                                               1:
                           S
                                                                    0,..., n-1.
1.
                                               1: A 11
                                                                     11=1+1 ( . .
      ),
                                                   1: A
2.
0: () 1,

1: := 2,

2: () 5

3: := g (x,y) 4,

4: := h (x) 2,
                                               ,
( ) 5
                                          : = g(x,y),
                                          : = h (x)^{2},
5: ().
                                             ( ).
4.1.3
1.
2.
З.
                           1
                                   2
                                                                 2,
                   WΟ
(
                                                                             ) .
4.2
                                                                    :
                 D
                                                                    d=I(x)
1.
D;
2.
                                                                   d=I()
D;
                                        f^{(n)} (n>=1) - f^{(n)} n>=1 -
                                                                                            F<sup>(n)</sup>=I(f<sup>(n)</sup>);
3.
                                                                       {0,1};
                                                                                       P^{(n)}=I(p^{(n)}).
                                                                                                D.
```

```
D -
         (S,I),
                      S -
                                                              W: X_S \rightarrow D,
                                    (S,I)
                                                            W(x)
                                                                                               D.
W(x) -
                                                            Ι
                                    XS
                                                                                       WΟ
     WO(x) = I(x)
                                               XS.
                                                                           U=(1,W), 1 -
                       S,
                             ₩ -
                       )
(
5
                  (
                                                       1
1.
2.
1.
                                     (
                                                   )
2.
5.1
a)
b)
c)
1.
2.
```

з.

1. 2.

з.

4.

1.

2.

3. 4. 5.

6.

7. 8.

5.2

: x>0.

```
).
6
1.
 a.
b.
 2.
 1.
 2.
                                                                       Prolog.
                              : \{Q\}S\{R\}, Q,R -
                                                                                , S -
                                                                                                                        ) S.
                 \begin{array}{c} / & & \text{S, } & \text{R} & - \\ : & \{x > 0\} & := +1 & \{ & > 1\} \\ & : & & \end{array}
                                                            S R
                                                                                                                                   x>10.
```