**Литвичнук Дарья. Вариант 10.**

**Регулярное выражение:** begin;(□)\* return;(□)\* (abs(calc+pr);) + □ \* end;

[0] begin; [1] (□)\* [2] return; [3] (□)\* [4] (abs(calc +pr);)+ [5] □\* [6] end; [7]

[0] a; [1] (b)\* [2] c; [3] (b)\* [4] (k+l);+ [5] b\* [6] j; [7]

**Примеры цепочек:**

1) begin □ return □ abs(calc) □ end

abcbkbj

2) begin □□ return □□ abs(pr) □ end

abbcbblbj

3) begin λ return □□□ abs(calc)abs(calc)abs(pr)abs(pr) □□□□ end

ascbbbkkllbbbbj

4) begin λ return □□ abs(pr) λ end

ascbblsj

5) begin λ return λ abs(pr) λ end

ascslsj

6) begin λ return λ abs(pr) □□□ end

ascslbbbj

7) begin λ return λ abs(calc) □ end

ascskbj

**Граф конечного автомата:** begin;(□)\* return;(□)\* (abs(calc+pr);) + □ \* end;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| begin; | □ | return; | end; | abs(calc); | abs(pr); | λ |
| a | b | c | j | k | l | s |

|  |
| --- |
|  |

**Таблица переходных состояний:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | a | b | c | k | l | j | λ |
| S0 | S1 |  |  |  |  |  |  |
| S1 |  | S2 |  |  |  |  | S2 |
| S2 |  | S2 | S3 |  |  |  |  |
| S3 |  | S4 |  |  |  |  | S4 |
| S4 |  | S4 |  | S5 | S5 |  |  |
| S5 |  | S6 |  | S5 | S5 |  | S6 |
| S6 |  | S6 |  |  |  | S7 |  |