

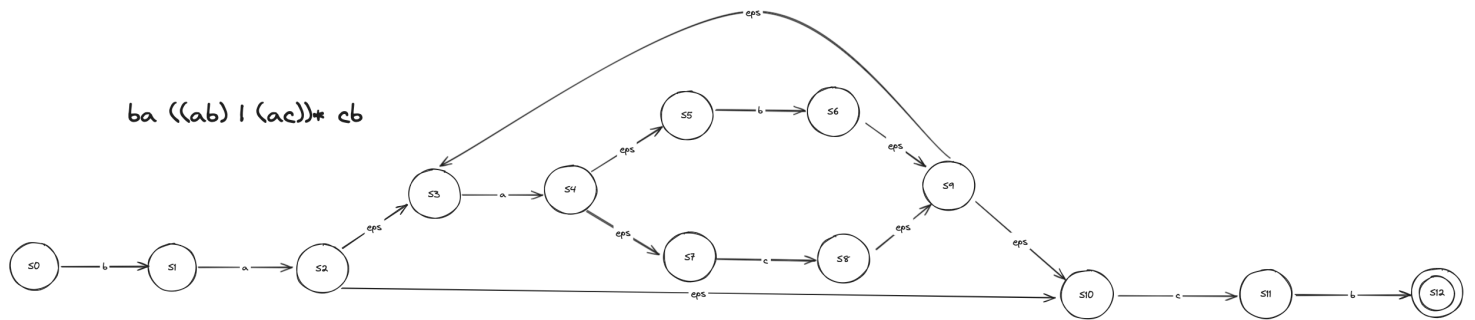


Университет ИТМО
Факультет ПИ и КТ

Лабораторная работа № 2
По Дисциплине «Compilers». V3.



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STATE	a	b	c
S0	-	S1	-
S1	S2, S3, S10	-	-
S2, S3, S10	S4, S5, S7	-	S11
S4, S5, S7	-	S6, S9, S10, S3	S8, S9, S10, S3
S11	-	S12	-
S12	-	-	-
S6, S9, S10, S3	S4, S5, S7	-	S11
S8, S9, S10, S3	S4, S5, S7	-	S11

1) $\text{mov}(S0, b) \rightarrow S1$;

$\epsilon_{\text{closure}}(S1) \rightarrow \{S1\}$;

2) $\text{mov}(S1, S2)$

$\epsilon_{\text{closure}}(S2) \rightarrow \{S2, S3, S10\}$;

3) $\text{mov}(S2, S3, S10, a) \rightarrow \{S4\}$

$\varepsilon_{\text{closure}}(S4) \rightarrow \{S4, S5, S7\}$

4) $\text{mov}(S2, S3, S10, c) \rightarrow \{S11\}$

$\varepsilon_{\text{closure}}(S11) \rightarrow \{S11\}$

5) $\text{mov}(S11, b) \rightarrow \{S12\}$

S12 - Допуск

6) $\text{mov}(S4, S5, S7, b) \rightarrow \{S6\}$

$\varepsilon_{\text{closure}}(S6) \rightarrow \{S6, S9, S10, S3\}$

7) $\text{mov}(S4, S5, S7, c) \rightarrow \{S8\}$

$\varepsilon_{\text{closure}}(S8) \rightarrow \{S8, S9, S10, S3\}$

8) $\text{mov}(S6, S9, S10, S3, c) \rightarrow \{S11\}$

S11 exists

9) $\text{mov}(S8, S9, S10, S3, c) \rightarrow \{S11\}$

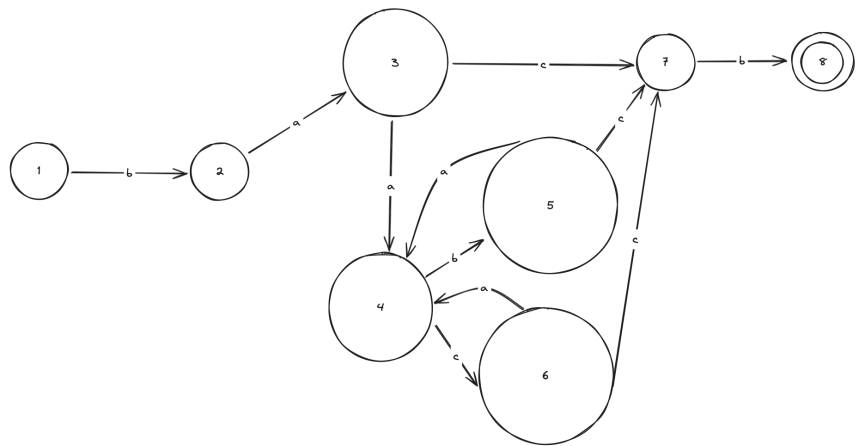
S11 exists

10) $\text{mov}(S6, S9, S10, S3, a) \rightarrow \{S4\}$

$\varepsilon_{\text{closure}}(S4) \rightarrow \{S4, S5, S7\}$

11) $\text{mov}(S8, S9, S10, S3, a) \rightarrow \{S4\}$

$\varepsilon_{\text{closure}}(S4) \rightarrow \{S4, S5, S7\}$



Осталось минимизировать

P0 : A0 = {8}, B0 = {1,2,3,4,5,6,7};

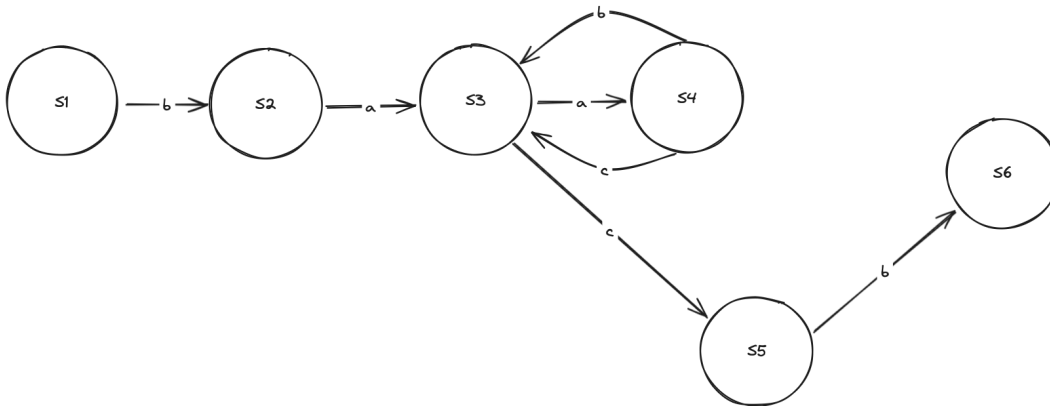
P1: A1 = {8}, B1 = {3,5,6}, C1 = {1,2,4,7,8}

				P0			P1		
S	a	b	c	a	b	c	a	b	c
1	-	2	-	-	B0	-	-	C1	-
2	3	-	-	B0	-	-	B1	-	-
3	4	-	7	B0	-	B0	C1	-	C1
4	-	5	6	-	B0	B0	-	B1	B1
5	4	-	7	B0	-	B0	C1	-	C1
6	4	-	7	B0	-	B0	C1	-	C1
7	-	8	-	-	A0	-	-	A1	-
8	-	-	-	-	-	-	-	-	-

S1 = 1, S2 = 2, S3 = 3,5,6, S4 = 4, S5 = 7, S6 = 8;

MIN

$ba((ab) \mid (ac))^*cb$



Examples:

1)baabacabaccb

Stage 1 -- OK

Moving to Stage 2

Stage 2 -- OK

Moving to Stage 3

Stage 3 -- OK

Moving to Stage 4

Stage 4 -- OK

Moving to Stage 3

Stage 3 -- OK

Moving to Stage 4

Stage 4 -- OK

Moving to Stage 3

Stage 3 -- OK

Moving to Stage 4

Stage 4 -- OK

Moving to Stage 3

Stage 3 -- OK

Moving to Stage 4

Stage 4 -- OK

Moving to Stage 3

Stage 3 -- OK

Moving to Stage 4

Stage 5 -- OK

Moving to Stage 6

2)bacb
Stage 1 -- OK
Moving to Stage 2

Stage 2 -- OK
Moving to Stage 3

Stage 3 -- OK
Moving to Stage 4

Stage 5 -- OK
Moving to Stage 6

3)abcb
Stage 1 -- FAILED

4)babcb
Stage 1 -- OK
Moving to Stage 2

Stage 2 -- OK
Moving to Stage 3

Stage 3 -- FAILED