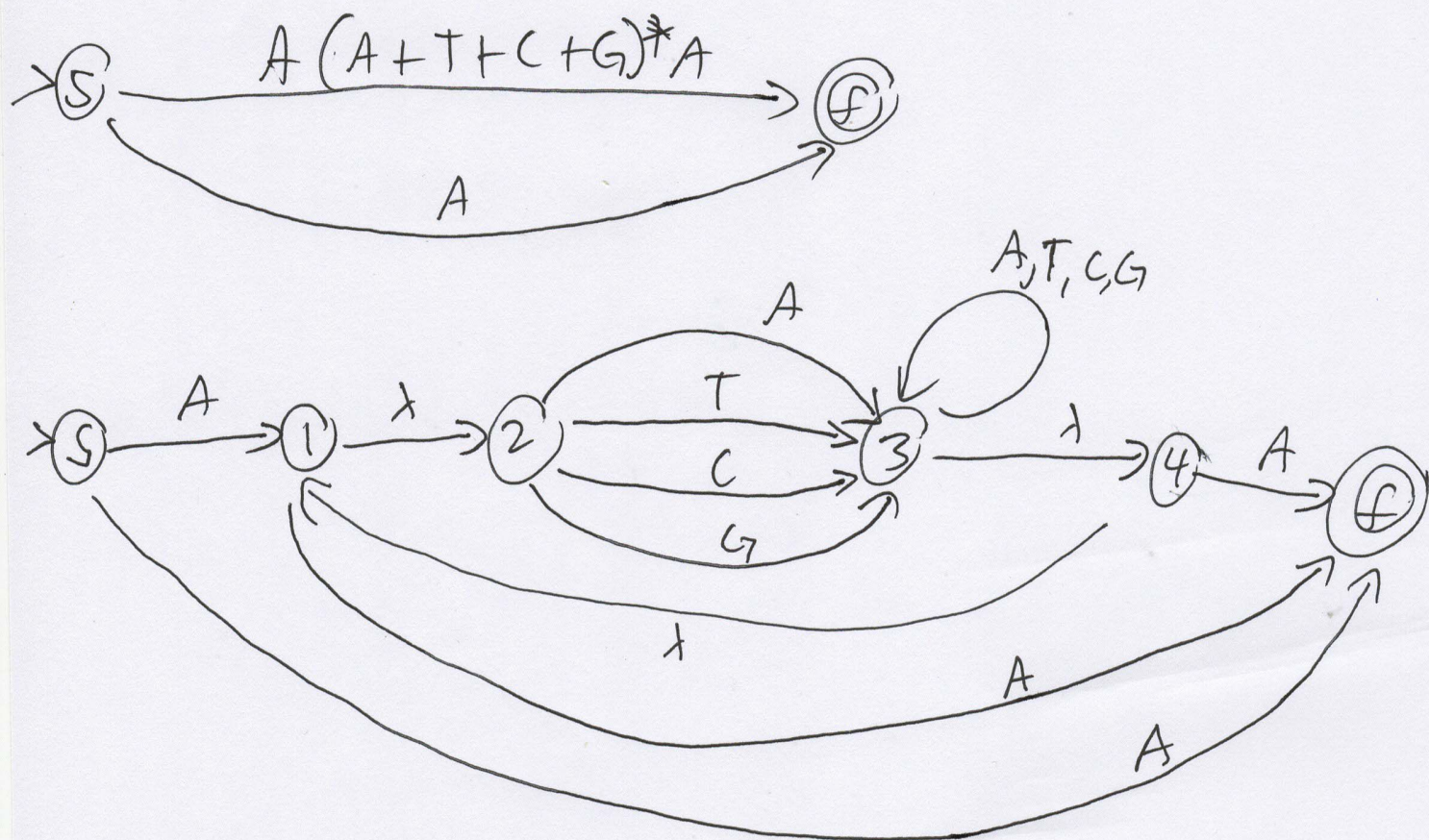


RE: $A + A(A+T+C+G)^*A$

RE \Rightarrow NFA

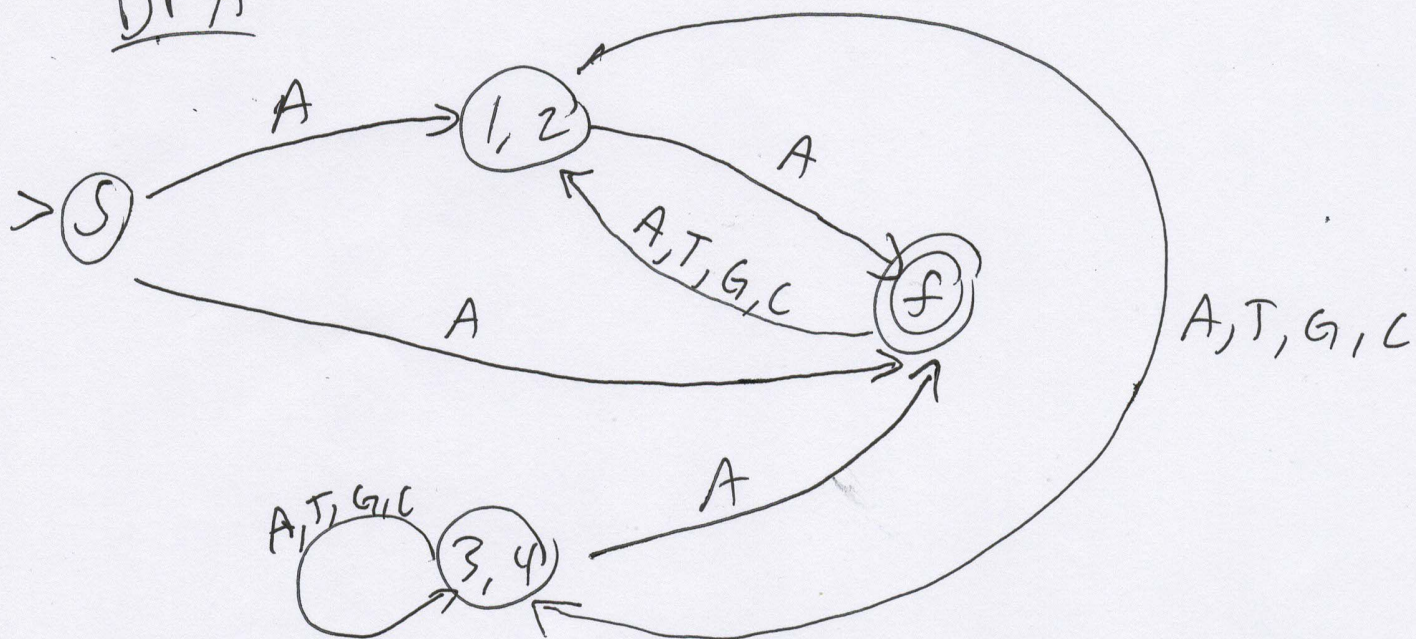


NFA \rightarrow DFA

	A	T	G	C	λ^*
S	1, f	-	-	-	S
1	f	-	-	-	1, 2
2	3	3	3	3	2
3	3	3	3	3	3, 4
4	f	-	-	-	1, 4
f	1	1	1	1	f

	$A\lambda^*$	$T\lambda^*$	$G\lambda^*$	$C\lambda^*$
S	1, 2, {f}	-	-	-
1, 2	3, 4, {f}	3, 4	3, 4	3, 4
f	1, 2	1, 2	1, 2	1, 2
3, 4	3, 4, {f}	3, 4	3, 4	3, 4

DFA



DFA \rightarrow C++

