Team Assignment 9		
Team Number and Initials		
Describe algorithms to decide the following problems:		
1. The DFA acceptance problem A_{DFA} . Given a DFA D and a string w , does D accept w .		
2. The NFA acceptance problem A_{NFA} . Given an NFA N and a string w , does N accept w .		

3. The regex acceptance problem A_{REX} . Given a regular expression R and a string w, does R produce w.

4.	The DFA emptiness problem E_{DFA} . Given a DFA D , determine if the language of D is empty.
5.	The DFA equivalence problem EQ_{DFA} . Given two DFAs A and B , determine whether $L(A)$ is the same as $L(B)$.

6.	The CFG acceptance problem A_{CFG} . Given a context-free grammar G and a string w , does G produce w .
7.	The CFG emptiness problem E_{CFG} . Given a context-free grammar G , determine if the language of G is empty.