Eric Altenburg I pleage my honor that I have abided by the Stevens Honor system. - For Attenting a) { w \ \{a,b} \ \ : w contains the string as but not the string bb } (a U ba) (ba) \* a+ (a U (ba)) \* (bu E) (ab) \* b) { w & {a,b} #: w contains on even # of a's but doesn't contain strong ga } b\* ((abta) U(abtabt)\*)b\* c) /# (aUbU / U (#\* (aUb))) \*#/ Using the knowledge that DFA's only function when it is given a regular language, it can be said that the DFA only accepts all regular languages. From this, if a relationship between the two types of machines, then the same can apply for OFA's. WITH the use of NFA's, when processing input and it encounters on E transition it will clone itself. For the NFA to function, at least I clone must end up in an accept state. This differs for OFA's in that all of the "clones" must be accept states. This similar to how a DFA functions, all of the input paths that are recognized end in an accept state even though its only one "poth that is followed. This meens that a DFA is basically on OFA. One can say that technically all of the OFA clone poths is its own DFA. Therefore, on OFA is composed of DFA's making it a DFA, and since a DFA accepts it, it is considered a regular language. R representing a new porn VISUC! - D This represents a DFA, path token by the input.

