1) Construct a Deterministic Finite State machine that accepts the following:

All identifiers that start with alphabet (‘A’-‘Z’, ‘a’-‘z’) contains alphabets and digits and contains underscores (‘_’).

The identifiers cannot start or end with underscore.
The identifiers cannot contain two successive underscores.

2) Construct a Deterministic Finite State machine that accepts the following:

All powers of 2 in binary. That is 1, 10, 100, etc.