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. That is 0, 10, 100, etc.