1. Draw a deterministic FA for the set of all binary strings with the property that:
   they contain exactly two blocks of 1's and both these blocks have odd length.
   For example, 1010 and 0100111000 should be accepted, but not 00110001 or 10101.

2. Give an RE for the above language.

   $$0^* 1(11)^* 00^* 1(11)^* 0^*$$