Write down regular expressions for each of the following languages. Throughout the exercise we assume the alphabet to be $\Sigma=\{0,1\}$.

1. All strings having 0 at the 39 th position
2. All strings containing 000 or 111 as substrings
3. All strings containing 000 or 111 as subsequences
4. All strings not containing 000 nor 111 as substrings
5. All strings not containing 000 nor 111 as subsequences
6. All strings except for 000 and 111
7. All strings containing 000 and 111 as substrings
8. All strings that contains at least three 0 s and two 1 s
9. All strings with more 01s than 10 s
