CS 278   Lab 12

10.3.1 b) Digits {0 - 9}, Letters {a - z}
Special char {*, &, $, #}
String length 6 can be special char,
letters, or digits, no repeated characters
First char can't be a special char.
36 × 39 × 38 × 37 × 36 × 35 =
$$\boxed{2487270240}$$

10.3.3 b) License plate: Digit - Letters - L - L L -
D - D

How many possible combinations if no
digits appear more than once?

10 × 26 × 26 × 26 × 26 × 9 × 8 =
$$\boxed{3290222720}$$

c) How many possible if no digit or letter
occurs more than once
10 × 26 × 25 × 24 × 23 × 9 × 8 =
$$\boxed{258336000}$$

10.4.3 b) Ten members of a club line up in a row
for a picture, It has a president, VP, secretary, treasurer.
How many ways to line them up if president is next
to the VP? 2·9! = $\boxed{725760}$