

of all valid passwords - # of passwords containing 0 lower case letter
- # of passwords containing 1 lower case letter

$$\# \text{ of all valid passwords} = 36^6$$

6 x

$$\# \text{ of passwords containing 0 lower case letter} = 10^6$$

$$\# \text{ of passwords containing 1 lower case letter} = 6 \times 10^5 \times 26.$$

$$\text{Answer} = 36^6 - 10^6 - 6 \times 10^5 \times 26 = 2,160,182,336.$$