Let us call a key as a 6-digit number with zeroes allowed in every position, such as 043771. (And note that 0 is even.)

(a) How many possible keys?

(b) How many possible keys with all digits distinct?

(c) How many possible keys if each digit is even?

(d) How many possible keys if no digit is even?

(e) How many possible keys if it alternates odd and even digits (but can start with any digit)?

(f) How many possible keys if exactly one digit is even?

(g) How many possible keys if an even number of digits is even?