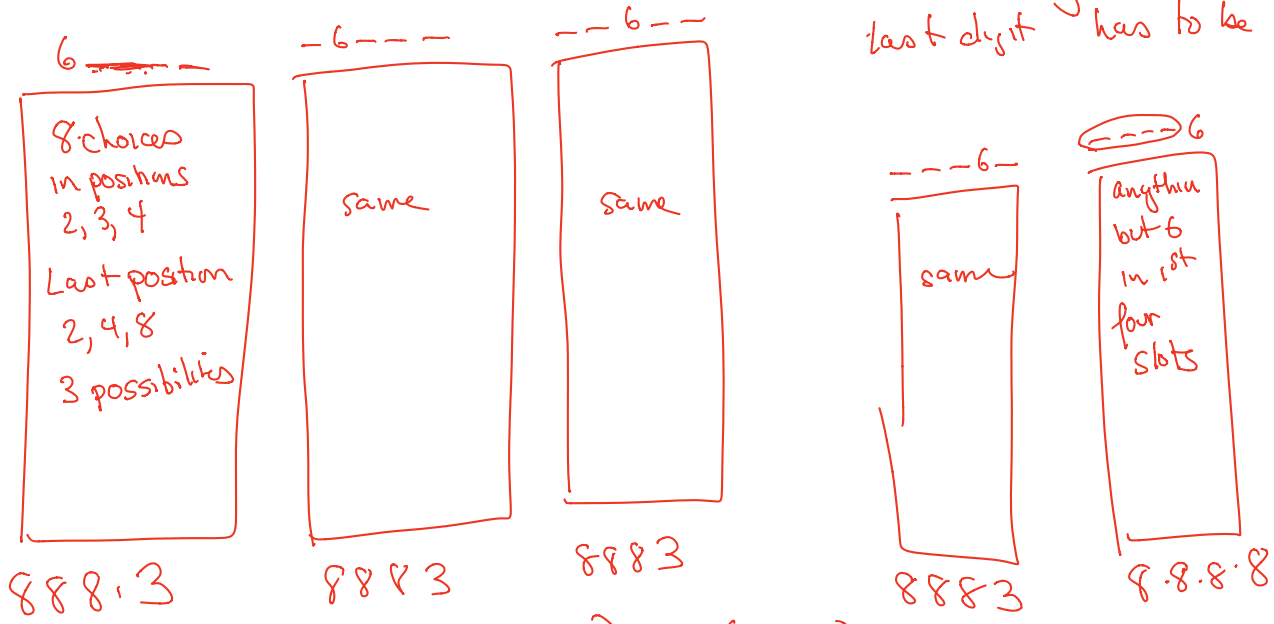


Examples

(Example 3.6) How many even 5 digit numbers are there for which:

- no digit is zero
- the digit 6 appears exactly once.

- 1, 2, 3, 4, 5, 6, 7, 8, 9
 there's only one 6.
 last digit has to be 2, 4, 6, 8



total # of ways = $4(8 \cdot 8 \cdot 8 \cdot 3) + 1(8 \cdot 8 \cdot 8 \cdot 8)$