Alien Microwave

- We may count non-Error-Prone times, which are the numbers that are still valid after *any* one of its digits is removed.
- It can be observed that for any consecutive four digits **a,b,c,d**, where **ab** belongs to a same time partition t(i), and **cd** belongs to a same time partition t(i+1), (aka |**ab**|**cd**|), we must have:
  - Deleting **c** gives |_**a**|**bd**|, **bd** < t(i+1)
  - Deleting **d** gives |_**a**|**bc**|, **bc** < t(i+1)
- Use dynamic programming to enumerate digits **ab** (**ab** < t(i)) from the least significant time partition to the most significant.
- The DP state saves the count of (partial) non-Error-Prone times, and keeps track of the previous two digits in the time partition on the right.
- Time: $O(t^2 n)$, t <= 100, n <= 9