

Observation :

- To be in ge
1. Digits don't repeat in the generated array.
↳ Hence, "permutation" → Search method on Google.
 2. Do there exist "Winning Strategy"?
↳ Master Mind
 3. It seems like Max len is 10 given
↳ {0, 1, ..., 9} are the only digits required
↳ Hence, 10^{14} Total Combo can be generated.
↳ ∴ Can just assume the array ^① is the only possible input.
↳ Hence for all possible with Diffculty = 4
⇒ $10 \times 9 \times 8 \times 7 = 5040$
Max possible Candidates #.

Logic : if secret = [1, 0, 3, 7]

Case 1: No Hit, No Blow

First iter: Our Guess = [2, 4, 5, 6]

$$\Rightarrow g([2, 4, 5, 6]) = 0$$

So we know 2, 4, 5, 6
never appear in the secret

Remove all permutations with $[2, 4, 5, 6]$

\Rightarrow Hence we only have $6 \times 5 \times 4 \times 3$

360 possible candidates now

\hookrightarrow keep iter until hits = diff

Case 2 = 1 hit, No blow

$\Rightarrow [1, 2, 4, 8]$

\therefore 1 digit is correct position H, B

$\Rightarrow q([1, 2, 4, 8]) \Rightarrow (1, 0)$

so we need to filter out all candidates

that will produce $q(\text{[candidates]}) = (1, 0)$

$c \in \text{candidates}$

\hookrightarrow for c

if $\text{getHit}(c, \text{guess}) \neq \text{hits}$

& $\text{getBlows}(c, \text{guess}) \neq \text{blows}$

\Rightarrow append (newCar, c)

else never append.

Low mail found $h.t.s = Diff.$