## 

```
class Solution:
def countGoodArrays(self, n: int, m: int, k: int) -> int:

MOD = 10**9 + 7
comb = math.comb(n - 1, k)
return comb * m * pow(m - 1, n - k - 1, MOD) % MOD
```



- choose k positions to insert = into n-1 spaces
- each of the remaining n k -1 groups must have different value from the previous one, so each have m -1 options, then modulo MOD
- · m is the options for the first segment
- pow(base, exponent, modulus)