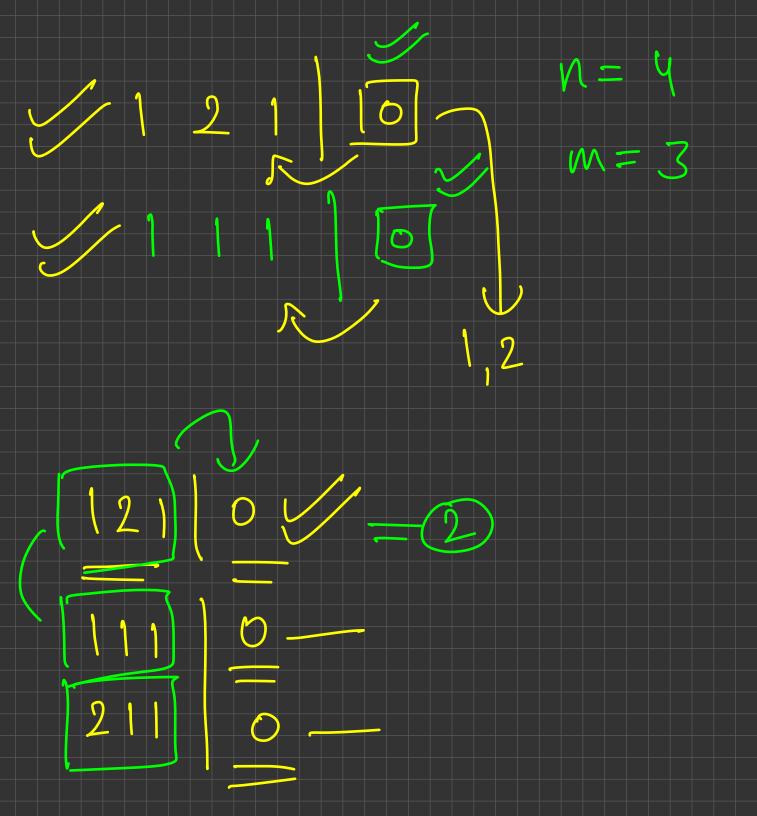
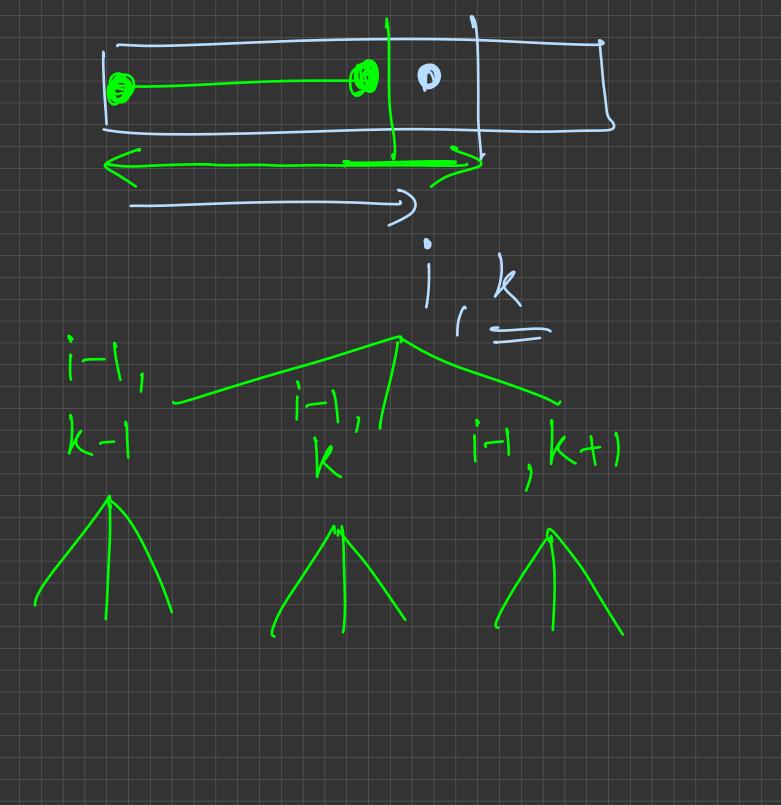
Worst Case



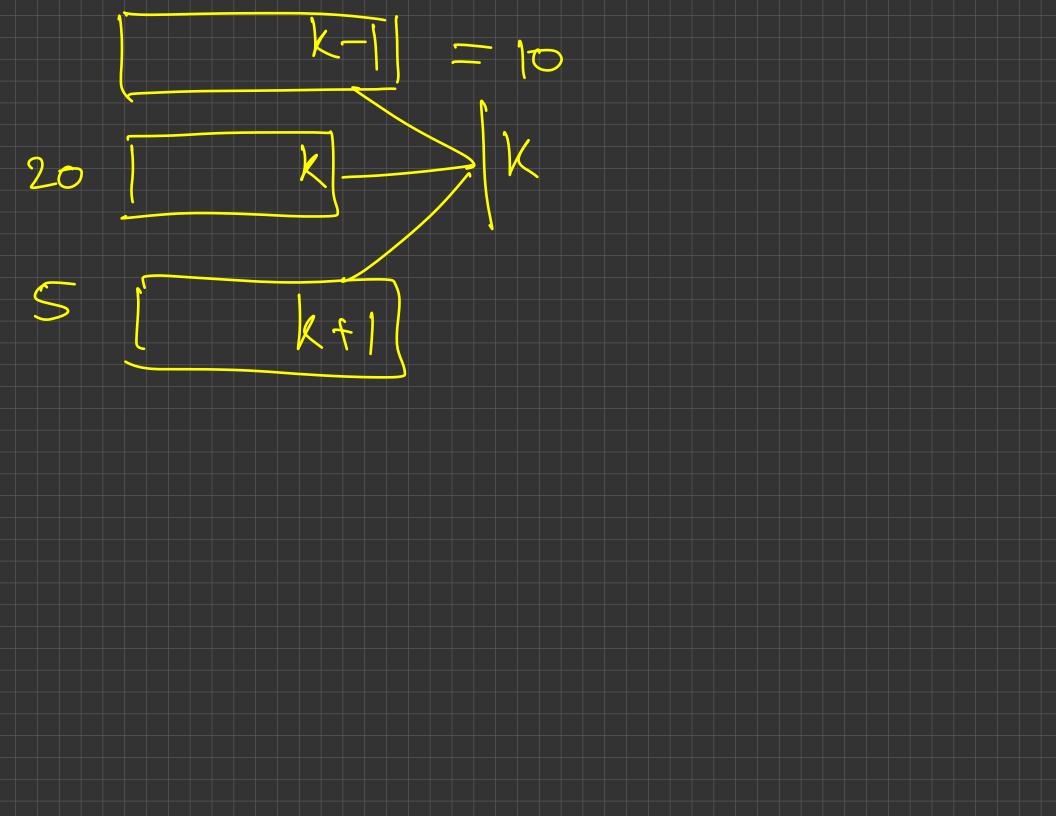
Con we bother only about a prefix?

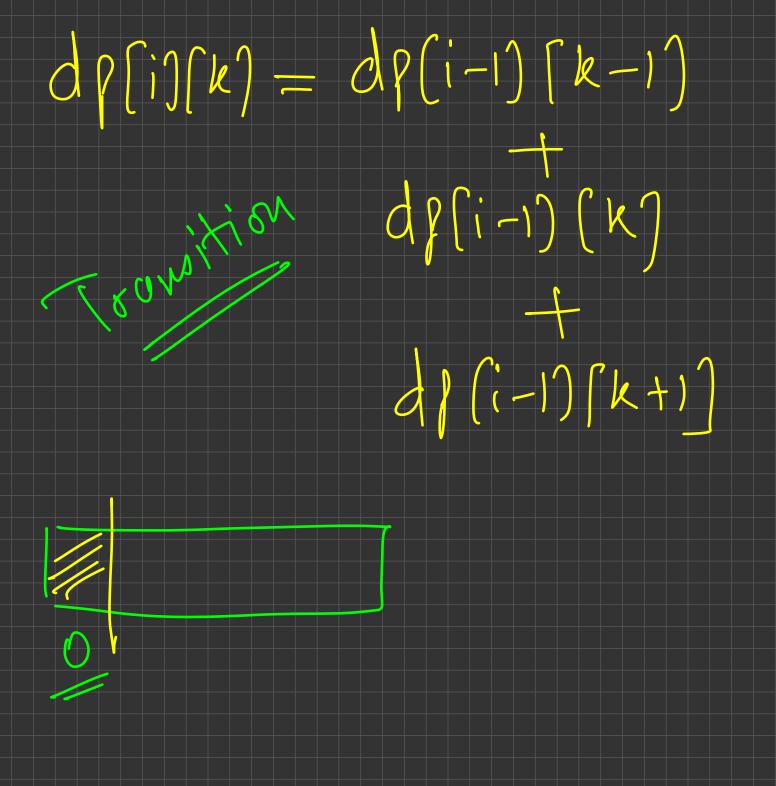
2 3 0 3 0 5

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dP[i](k) = no. of Prefixes oflength = i that can be formed such that the Cast element of the gretin





$$df(i)(k) = 1 \quad \text{if} \quad a(o) = k$$

$$0 \quad 0 \quad 0 \quad -0$$

$$0 \quad \text{Base case}$$

$$1 \quad -0$$

$$2 \quad -0$$

$$3 \quad -0$$

$$4 \quad -0$$

$$4 \quad -0$$

$$4 \quad -0$$

$$5 \quad -0$$

$$4 \quad -0$$

$$4 \quad -0$$

$$5 \quad -0$$

$$6 \quad -0$$

$$7 \quad -0$$

$$8 \quad -0$$

$$8 \quad -0$$

$$8 \quad -0$$

$$8 \quad -0$$

$$9 \quad -0$$

$$1 \quad -0$$

$$1 \quad -0$$

$$1 \quad -0$$

$$2 \quad -0$$

$$3 \quad -0$$

$$4 \quad -0$$

$$4 \quad -0$$

$$4 \quad -0$$

$$5 \quad -0$$

$$4 \quad -0$$

$$5 \quad -0$$

$$6 \quad -0$$

$$7 \quad -0$$

$$7 \quad -0$$

$$8 \quad -0$$

$$8 \quad -0$$

$$8 \quad -0$$

$$9 \quad -0$$

$$9 \quad -0$$

$$1 \quad -0$$

$$1 \quad -0$$

$$1 \quad -0$$

$$2 \quad -0$$

$$1 \quad -0$$

$$2 \quad -0$$

$$3 \quad -0$$

$$4 \quad -0$$

$$4 \quad -0$$

$$4 \quad -0$$

$$5 \quad -0$$

$$4 \quad -0$$

$$5 \quad -0$$

$$6 \quad -0$$

$$7 \quad -0$$

$$7 \quad -0$$

$$8 \quad -0$$

$$8 \quad -0$$

$$9 \quad -0$$

$$9 \quad -0$$

$$1 \quad -0$$

$$1 \quad -0$$

$$1 \quad -0$$

$$2 \quad -0$$

$$3 \quad -0$$

$$4 \quad -0$$

$$4 \quad -0$$

$$4 \quad -0$$

$$5 \quad -0$$

$$5 \quad -0$$

$$7 \quad -0$$

$$7 \quad -0$$

$$8 \quad -0$$

$$9 \quad$$

final subprosum? dp(1)(1) + dp(n)[2] 2 dp(n)[i)