

# COL202 Quiz 5

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TOTAL POINTS

0 / 5

QUESTION 1

1 Problem 1 0 / 5

! + 0 pts *Incorrect*

⌘ + 0.5 pts Base case for recurrence

$f(1, k) = 1$  if  $k=1$ , 0 otherwise

$f(n, 0) = 0$

⌘ + 1.5 pts Correct recurrence

$f(n, k) = (n-1)f(n-1, k) + f(n-1, k-1)$

⌘ + 1 pts Correct argument for recurrence

⌘ + 2 pts Solve to find the generating function

from the recurrence and concluding the proof

⌘ + 0.5 pts Correct Base case for induction on n

⌘ + 0.5 pts Correct Base case for induction on k

⌘ + 2 pts Correct hypothesis for induction on n

⌘ + 2 pts Correct hypothesis for induction on k

