

Divide and Conquer

template

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Prob( $A_{\{1 \sim n\}}$ ) \ if  $n == 1$  \ return solution(Conquer) \ else \ left_solution = Prob( $A_{\{1 \sim \lfloor \frac{n}{2} \rfloor\}}$ ) \
right_solution = Prob( $A_{\{\lfloor \frac{n}{2} \rfloor + 1 \sim n\}}$ ) \ return combine(left_solution, right_solution) \
```