let x = max(0, n-(N-K))

Program ended with exit code: 0

let y = min(n,K)

print(x)
print(y)

2 $n \ge K$, n < N-K Supp $[X] = \{0,1,...,K\}$ - choose more/equal then/to success & less then failure

4 n < K, $n \ge N-K$ Supp $[X] = \{n-(N-K),...,n\}$ - choose less then success & more/equal then/to failure

n < K n ≥ K

 $Supp[X] = \{ max(0, n-(N-K)), ..., min(n,K) \}$

n < N-K {0,1,...,n} {0,1,...,K}

 $n \ge N-K \mid \{n-(N-K),...,n\} \mid \{n-(N-K),...,K\}$

3 $n \ge K$, $n \ge N-K$ Supp[X] = $\{n-(N-K),...,K\}$ - choose more/equal then/to success & more/equal then/to failure

 $\sum_{x \in \mathcal{X}} p(x) = 1 ?$

use Vandermonde's Identity to prove this