X~pors(); what value(s) of R maximize the pmf of X: p(k). p(k)= x e 20,1,2,... }, x > 0.  $f(x) = \frac{p(x)}{p(x-1)} = \frac{x}{x}$ if f(k) = 1: P(k) = 1 or P(k) = P(k1). in this case, no change if fle) > 1: Plus >1, and plus > p(k1). in this case, we museuse when going from k-1 -> K. me ore now decreasing. 76 flx)2/: S(K) >1 (=) x >1 (=) (R) Suprose > 15 not integer.

[] = floor (); biggest int, smaller them ey: \=TT, L>1=3 TXT = ceil(X): smallest int. bigger trank R=TXT, P(K) < P(K) whole number is not # p(k) 5  $\lambda \in (0,1)$ of the Roy Portolly.

X ~ number of Sish in a lake for a given time. 2 Shert k=1, k=2 flx) < 1, decv