Show that the 1-point compact; fically OF Z+ is homeomorphic with the subspace 103U {1/n | n ∈ Z, 3= 6 + 1R Z+ and { 1/1 N = Z+3 are locally compact es they are simply ordered sets with the least upper bound property letting $f(x) = \frac{1}{n}$ and equipping Z_{+} with the discrete topology we see that F' is clearly continuous for any n: F(n) = = = (1) / n-1) MY which is to then open i thus f is a homeomorphism. By exercise 5 their I point compactifications are homee morphic