- 6) Suppose we start with n sets, each containing a distinct element.
 - a) Show that if u unions are performed, then no set contains more than u + 1 elements.
 - b) Show that at most n-1 unions can be performed before the number of sets becomes

If a set has n elements, then it needs n-1 times of union perform. Another set has un element, then it need u-n-1 times of union perform. Thus to perform it until the number of set becomes I needs u-1 times of perform. So there is not a set with more than a element in this case.