## Consider that non Atoms is n,

Due to the rewsons above, the prayram will run  $N^2-N$  times and cost  $26\left(\frac{n^2-N}{2}\right)$  ticks. The numeroser dividing by two morkes a huge differences Compared to the first adjorithm, but in terms of big-0 notation, the function is defined as  $\frac{1}{2}(n^2-n)$  so thus, according to the Big-Oh rules, the function -1 tion remains out a -1 -1 Complexity.