2. Each exponent is unique within a polynomial. There are no duplicate exponents (eg: no two terms like 3x2+422 — these would already be combined during construction). · At the beginning of each loop iteration, for all exponents exp max (terms [start]). expon, terms [startB]. expon) s.t. Fi, j where (OK=iXstartA and exp=terms[i].expon) or (finishA+1/=j/startB and exp=terms[i].expon), we have already calculated the correct corresponding coefficient for year Initialization: At the beginning of the 1st iteration, start A=0, start B= in the polynomial D. finish At 1. This is according to our original representation where polynomial B is just ofter polynomial A. The index OX=iXstartA=O and finish At I doesn't logically make sense. . The Loop invariant X=jXfinish At 1 doesn't logically make sense. . The Loop invariant Maintenance: Let, StartA=2 and Start B=y. Ox2 (finish A and Start B= automatically holds. finish A+1848 finish B. Let, the doop invariant hold just before the start :. For all exponents exp/max(terms[size]. expon, terms[y]. expon) s.t. I is where (the is and expeterms [i] expon) or (finishA+1K=i / comy and exp=termstil. expor), we have already calculated the corresponding coefficient for year in the polynomial D. . From lines 5-19, we can see that we have a Switch block. In the switch condn. on line 5 we compare terms[x]. expon and terms[x]. expon. & Suppose, why, terms [x]. expond terms[y]. expon. :. compare will return - 1 and lines 6-9 will be evaluated. By correctness of attach function, the coefficient of terms[y] along with the respective