Refined version of outer loop invariant (chatget) Just before the start of the ith iteration of the outer loop (for i such that StartAs(isfinishA), the polynomial [\subsection terms[K]. B(a)] - that is, the Sum of the partial products formed by multiplying each term terms [K] of polynomial A (for KKi) with the polynomial B— has been correctly compided and stoped in the terms array between indices start and finish 2 as polynomial 2. Initialization; i=startA. The range K=startA to i- 1 controlled does not make sense. The order loop invariant trivially holds. Maintenance: Let, the order loop invariant hold just before the start of the iteration when i=x! in [K]. B(x) is correctly computed K=startA and has been stored in the terms array between indices starty and finish & · By correctness of inner loop, (lines 9-10), the partial product terms [2']* B(1) has been correctly computed and stored in the terms array by the attach function. We know, the current posn of avail is the premary block just to the right of the last term of the Polynomial terms [7] * B(x). (Refer to pf of correctness of inner loop) If i=startA, then only the 1st partial product term has been computed and we rightly stop further iteration of the loop and move on to the next iteration (lines 11-12). · Otherwise, finish y and start y is initialized to the finishing and starting posses of the polynomial & terms [x'] * B(x).