3) Write a function pmult that multiplies two polynomials. Figure out the computing time of your function. ($\chi 5+\chi^3+\chi^2$) \times ($\chi 6+\chi^2+\chi^2+\chi^2+\chi^4$) = $(5,1;4,2)$, ($5,0;3,2$)
(3,1;4,2), (3,0;3,12)
(1st, 1st), [0x, 40), (1st) 1 C Void Pmult (int start A, int finish A, int start B, int finish B)
1. Void print (un sun 1991);
25. int ini; 4. int starty = avail, finish x = avail+ (finish B-start B); 5. int starty, finish y; 6. int starty, finish y;
6. int startD, finishD; 7. for(i=StartA; ix=finishA; itt)
8. & for (i= startb; i/= finishb; i+t) coef, terms[i]. expon + terms[i].expon);
$\int_{0}^{\infty} \int_{0}^{\infty} \int_{0$
10 chapty = avail - Francis Du to 17
14. finishy = avall-1; 15. padd(startx, finishx, starty, finishy, astartD, rfinishD); 16. ctartx = startD;
16. Start x = Start D; 17. finish x = finish D; 18.7.
Proof of Correctness will hold. The assumptions in the case of padd the hold. The assumptions in the case of padd the hold.
The assumptions in the case of pada short of the loop iteration, $\forall K$,
The assumptions in the case of the start of the loop iteration, the Inner Loop Invariant: Dust before the start of the loop iteration, the exponsion of the polynomial, as terms [i] coef* x terms [i] coef* x terms [startb] expon + terms [j] coef* x terms [startb] expon + terms [j] coef* x terms [startb] expon has been correctly to the computed.
* (terms [startb]. coef * x terms [startb]. expon + terms [j]. coef * x terms [startb].
* (terms [startb].coef * x terms [finishb].expon) has been correctly