

```

1  /*****
2  /*HW00_AhmetEmin_Kaplan_131044042.c
3  /*
4  /*Written by Ahmet Emin Kaplan on February 15, 2015
5  /*
6  /*Description
7  /*
8  /*Takes multiplication of the pair of second degree polynomials
9  /*Inputs:
10 /* -Coefficients of the first 2nd degree polynomial
11 /* -Coefficients of other 2nd degree polynomial
12 /*Outputs:
13 /* -Multiplication of the pair of 2nd degree polynomials
14 /*****
15 /*
16 /*-----*/
17 /*                               Includes
18 /*-----*/
19 #include <stdio.h>
20
21
22 int main()
23 {
24     double f1,f2,f3;      /*Coefficients of the first poly*/
25     double s1,s2,s3;      /*Coefficients of the second poly*/
26     double r1,r2,r3,r4,r5; /*Coefficients of the resulting poly*/
27
28
29     /*Get the first polynomial*/
30     printf("Please Enter coefficients of the first 2nd degree polynomial.\n");
31     scanf("%lf %lf %lf",&f1,&f2,&f3);
32     /*Show the first polynomial the user entered*/
33     printf("The first polynomial which was entered by you is\n");
34     printf("(f)x^2 + (f)x + (f)\n",f1,f2,f3);
35
36     /*Get the second polynomial*/
37     printf("Please Enter coefficients of the other 2nd degree polynomial.\n");
38     scanf("%lf %lf %lf",&s1,&s2,&s3);
39
40     /*Show the second polynomial the user entered*/
41     printf("The second polynomial which was entered by you is\n");
42     printf("(f)x^2 + (f)x + (f)\n",s1,s2,s3);
43
44
45     r1 = (f1*s1); /*Calculate the coefficient of x^4 */
46     r2 = (f1*s2) + (f2*s1); /*Calculate the coefficient of x^3 */
47     r3 = (f1*s3) + (f3*s1) + (f2*s2); /*Calculate the coefficient of x^2 */
48     r4 = (f2*s3) + (f3*s2); /*Calculate the coefficient of x */
49     r5 = (f3*s3); /*Calculate the p(0) degree*/
50
51     /*Output the resulting polynomial*/
52     printf("The Resulting polynomial>\n");
53     printf("(f)x^4 + (f)x^3 + (f)x^2 + (f)x + (f)\n",r1,r2,r3,r4,r5);
54
55
56     return(0);
57 }
58
59
60
61
62 /*-----*/
63 /*                               End of HW00_AhmetEmin_Kaplan_131044042_part2.c
64 /*-----*/

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