

	M	T	W	T	F	S	S
	1	2	3
APRIL	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	.

Saturday
071-294 • Week 10

12

12-03-2011

MARCH

45. I write a program that uses a function pointer as a function argument.

```
#include <math.h>
#define PI 3.1415926
double y(double);
double cos(double);
double table(double (*f)( ), double, double, double);
main()
{
    printf("Table of  $y(x) = 2 * x * x - x + 1$  \n\n");
    table(y, 0.0, 2.0, 0.5);
    printf("\nTable of cos(x) \n\n");
    table(cos, 0.0, PI, 0.5);
}
double table(double (*f)( ), double min, double max, double step)
{
    double a, value;
    for(a = min; a <= max; a += step)
    {
        value = (*f)(a);
        printf(" %.5.2f  %.10.4f \n", a, value);
    }
}
double y(double x)
{
    return (2 * x * x - x + 1);
}
```

Appointments Meetings

Sunday 13

OUTPUT:

Appointments Meetings

Table of $y(x) = 2^x x^{x-x+1}$

0.00	1.0000
0.50	1.0000
1.00	2.0000
1.50	4.0000
2.00	7.0000

Table of $\cos(x)$

0.00	1.0000
0.50	0.8776
1.00	0.5403
1.50	0.0707
2.00	-0.4161
2.50	-0.8011
3.00	-0.9900