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1 /* EE231002 Lab04. Deciphering Roman Numerals
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4 */
5 #include<stdio.h>
6
7 int main(void){
8
9     char c;                //a char to scan rapidly
10    int c_I = 0, c_II = 0;   //two int to calculate if plus or minus
11    int value = 0;          //total value
12
13    printf("Input a Roman Numeral: "); //basic input
14
15    while ((c = getchar())!='\n') { //continue getchar till 'Enter'
16        c_I = c_II;          //the second int shift to the first
17        switch(c){           //switch case for c
18            case 'I':
19                c_II = 1;     //I = 1
20                break;
21            case 'V':
22                c_II = 5;     //V = 5
23                break;
24            case 'X':
25                c_II = 10;    //X = 10
26                break;
27            case 'L':
28                c_II = 50;    //L = 50
29                break;
30            case 'C':
31                c_II = 100;   //C = 100
32                break;
33            case 'D':
34                c_II = 500;   //D = 500
35                break;
36            case 'M':
37                c_II = 1000;  //M = 1000
38                break;
39        }
40        if (c_II <= c_I){     //calculation
41            value = value + c_I; //if first int is larger than second
42        } else {             //than add the first int
43            value = value - c_I; //if first int is smaller than first
44        }                   //than minus the first int
45    }
46
47    value = value + c_II;     //calculation (add the last)
48    printf("The value is: %d\n", value); //Basic output
49
50    return 0;

```

51 }

Score: 95

- o. Can use space characters more effectively.
- o. [Line 38] 'break' is not needed.