1. #include <stdio.h>
3. void predigit(char num1, char num2);
4. void postdigit(char c, int n);
6. char romanval[1000];
7. int i = 0;
8. int main()
9. {
10. int j;
11. long number;
13. printf("Enter the number: ");
14. scanf("%d", &number);
15. if (number <= 0)
16. {
17. printf("Invalid number");
18. return 0;
19. }
20. while (number != 0)
21. {
22. if (number >= 1000)
23. {
24. postdigit('M', number / 1000);
25. number = number - (number / 1000) \* 1000;
26. }
27. else if (number >= 500)
28. {
29. if (number < (500 + 4 \* 100))
30. {
31. postdigit('D', number / 500);
32. number = number - (number / 500) \* 500;
33. }
34. else
35. {
36. predigit('C','M');
37. number = number - (1000-100);
38. }
39. }
40. else if (number >= 100)
41. {
42. if (number < (100 + 3 \* 100))
43. {
44. postdigit('C', number / 100);
45. number = number - (number / 100) \* 100;
46. }
47. else
48. {
49. predigit('L', 'D');
50. number = number - (500 - 100);
51. }
52. }
53. else if (number >= 50 )
54. {
55. if (number < (50 + 4 \* 10))
56. {
57. postdigit('L', number / 50);
58. number = number - (number / 50) \* 50;
59. }
60. else
61. {
62. predigit('X','C');
63. number = number - (100-10);
64. }
65. }
66. else if (number >= 10)
67. {
68. if (number < (10 + 3 \* 10))
69. {
70. postdigit('X', number / 10);
71. number = number - (number / 10) \* 10;
72. }
73. else
74. {
75. predigit('X','L');
76. number = number - (50 - 10);
77. }
78. }
79. else if (number >= 5)
80. {
81. if (number < (5 + 4 \* 1))
82. {
83. postdigit('V', number / 5);
84. number = number - (number / 5) \* 5;
85. }
86. else
87. {
88. predigit('I', 'X');
89. number = number - (10 - 1);
90. }
91. }
92. else if (number >= 1)
93. {
94. if (number < 4)
95. {
96. postdigit('I', number / 1);
97. number = number - (number / 1) \* 1;
98. }
99. else
100. {
101. predigit('I', 'V');
102. number = number - (5 - 1);
103. }
104. }
105. }
106. printf("Roman number is: ");
107. for(j = 0; j < i; j++)
108. printf("%c", romanval[j]);
109. return 0;
110. }
112. void predigit(char num1, char num2)
113. {
114. romanval[i++] = num1;
115. romanval[i++] = num2;
116. }
118. void postdigit(char c, int n)
119. {
120. int j;
121. for (j = 0; j < n; j++)
122. romanval[i++] = c;
123. }