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#include<stdio.h>

int main( void )
{
    int loop; /* loop counter */
    int div; /* tens digit */
    int mod; /* ones digit */

    /* display table headers */
    printf( " Roman\nNumeral\t\tDecimal\n" );

    /* loop 100 times */
    for ( loop = 1; loop <= 100; loop++ ) {
        div = loop / 10; /* separate tens digit */
        mod = loop % 10; /* separate ones digit */

        /* switch structure for tens digit */
        switch ( div ) {

            /* print appropriate Roman numeral for tens digit */
            case 0:
                break;

            case 1:
                printf( "X" );
                break; /* exit switch */

            case 2:
                printf( "XX" );
                break; /* exit switch */

            case 3:
                printf( "XXX" );
                break; /* exit switch */

            case 4:
                printf( "XL" );
                break; /* exit switch */

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case 5:
    printf( "L" );
    break; /* exit switch */

case 6:
    printf( "LX" );
    break; /* exit switch */

case 7:
    printf( "LXX" );
    break; /* exit switch */

case 8:
    printf( "LXXX" );
    break; /* exit switch */

case 9:
    printf( "XC" );
    break; /* exit switch */

case 10:
    printf( "C" );
    break; /* exit switch */

default:
    break; /* exit switch */
} /* end switch */

/* switch structure for ones digit */
switch( mod ) {

    /* print appropriate Roman numeral for ones digit */
    case 0:
        printf( "\t\t%4d\n", div * 10 );
        break; /* exit switch */

    case 1:

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printf( "I\t\t%4d\n", div * 10 + mod );  
break; /* exit switch */
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case 2:

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printf( "II\t\t%4d\n", div * 10 + mod );  
break; /* exit switch */
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case 3:

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printf( "III\t\t%4d\n", div * 10 + mod );  
break; /* exit switch */
```

case 4:

```
printf( "IV\t\t%4d\n", div * 10 + mod );  
break; /* exit switch */
```

case 5:

```
printf( "V\t\t%4d\n", div * 10 + mod );  
break; /* exit switch */
```

case 6:

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printf( "VI\t\t%4d\n", div * 10 + mod );  
break; /* exit switch */
```

case 7:

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printf( "VII\t\t%4d\n", div * 10 + mod );  
break; /* exit switch */
```

case 8:

```
printf( "VIII\t\t%4d\n", div * 10 + mod );  
break; /* exit switch */
```

case 9:

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printf( "IX\t\t%4d\n", div * 10 + mod );  
break; /* exit switch */
```

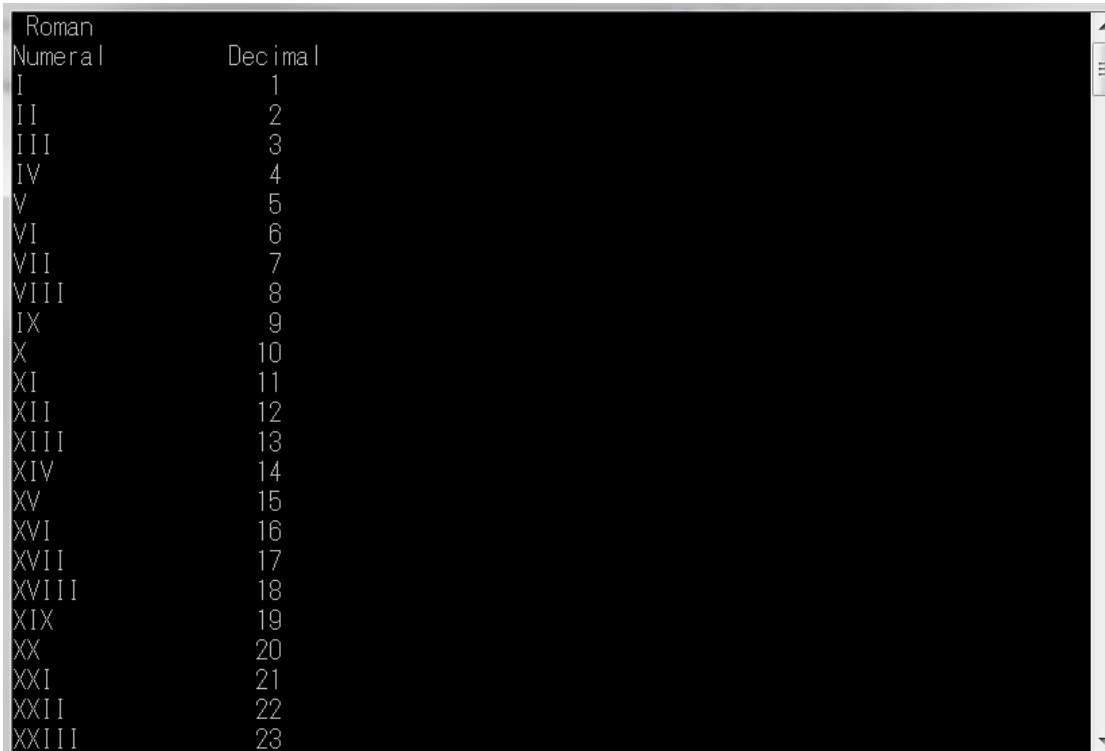
case 10:

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printf( "X\t\t%4d\n", div * 10 + mod );  
break; /* exit switch */
```

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        default:
            break; /* exit switch */
    } /* end switch */

} /* end for */

return 0; /* indicate successful termination */
} /* end main */
```



The screenshot shows a terminal window with a black background and white text. The text displays a table with two columns: 'Roman Numeral' and 'Decimal'. The table lists Roman numerals from I to XXIII and their corresponding decimal values from 1 to 23. The terminal window has a standard scrollbar on the right side.

Roman Numeral	Decimal
I	1
II	2
III	3
IV	4
V	5
VI	6
VII	7
VIII	8
IX	9
X	10
XI	11
XII	12
XIII	13
XIV	14
XV	15
XVI	16
XVII	17
XVIII	18
XIX	19
XX	20
XXI	21
XXII	22
XXIII	23

XXIV	24
XXV	25
XXVI	26
XXVII	27
XXVIII	28
XXIX	29
XXX	30
XXXI	31
XXXII	32
XXXIII	33
XXXIV	34
XXXV	35
XXXVI	36
XXXVII	37
XXXVIII	38
XXXIX	39
XL	40
XLI	41
XLII	42
XLIII	43
XLIV	44
XLV	45
XLVI	46
XLVII	47
XLVIII	48

XLIX	49
L	50
LI	51
LII	52
LIII	53
LIV	54
LV	55
LVI	56
LVII	57
LVIII	58
LIX	59
LX	60
LXI	61
LXII	62
LXIII	63
LXIV	64
LXV	65
LXVI	66
LXVII	67
LXVIII	68
LXIX	69
LXX	70
LXXI	71
LXXII	72
LXXIII	73

LXXIV	74	
LXXV	75	
LXXVI	76	
LXXVII	77	
LXXVIII	78	
LXXIX	79	
LXXX	80	
LXXXI	81	
LXXXII	82	
LXXXIII	83	
LXXXIV	84	
LXXXV	85	
LXXXVI	86	
LXXXVII	87	
LXXXVIII		88
LXXXIX	89	
XC	90	
XCI	91	
XCII	92	
XCIII	93	
XCIV	94	
XCV	95	
XCVI	96	
XCVII	97	
XCVIII	98	

XCIX 99  
C 100  
Press any key to continue