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C Program to calculate the day of year from the date

 Last updated on September 24, 2020

The following is a C program to calculate the day of year from the date:

```

1  /*****
2   Program to calculate day of year from the date
3   *
4   * Enter date (MM/DD/YYYY): 12/30/2006
5   * Day of year: 364
6   *
7   *****/
8
9  #include<stdio.h> // include stdio.h Library
10
11 int main(void)
12 {
13     int day, mon, year, days_in_feb = 28,
14         doy;    // day of year
15
16     printf("Enter date (MM/DD/YYYY): ");

```



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```
17 scanf("%d/%d/%d", &mon, &day, &year);
18
19 doy = day;
20
21 // check for Leap year
22 if( (year % 4 == 0 && year % 100 != 0 ) || (year % 400 == 0) )
23 {
24     days_in_feb = 29;
25 }
26
27 switch(mon)
28 {
29     case 2:
30         doy += 31;
31         break;
32     case 3:
33         doy += 31+days_in_feb;
34         break;
35     case 4:
36         doy += 31+days_in_feb+31;
37         break;
38     case 5:
39         doy += 31+days_in_feb+31+30;
40         break;
41     case 6:
42         doy += 31+days_in_feb+31+30+31;
43         break;
44     case 7:
45         doy += 31+days_in_feb+31+30+31+30;
46         break;
47     case 8:
48         doy += 31+days_in_feb+31+30+31+30+31;
49         break;
50     case 9:
51         doy += 31+days_in_feb+31+30+31+30+31+31;
```



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```

52         break;
53     case 10:
54         doy += 31+days_in_feb+31+30+31+30+31+31+30;
55         break;
56     case 11:
57         doy += 31+days_in_feb+31+30+31+30+31+31+30+31;
58         break;
59     case 12:
60         doy += 31+days_in_feb+31+30+31+30+31+31+30+31+30;
61         break;
62     }
63
64     printf("Day of year: %d", doy);
65
66     return 0; // return 0 to operating system
67 }

```

Try it now (<https://overiq.com/c-online-compiler/oyN/>)

Expected Output: 1st run:

```

1 Enter date (MM/DD/YYYY): 03/05/2000
2 Day of year: 65

```

2nd run:

```

1 Enter date (MM/DD/YYYY): 12/25/2018
2 Day of year: 359

```



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Day of year is a number between 1 and 365 (or 366, if leap year). For example, 1st Jan is day 1, 5th Feb is day 36 and so on.

Recommended Reading:

- C Program to check whether a year is a leap year (/c-examples/c-program-to-check-whether-a-year-is-a-leap-year/)
- C Program to print the earlier of the two dates (/c-examples/c-program-to-print-the-earlier-of-the-two-dates/)
- C Program to find Prime Numbers (/c-examples/c-program-to-find-prime-numbers/)
- C Program to find the roots of a Quadratic equation (/c-examples/c-program-to-find-the-roots-of-a-quadratic-equation/)
- C Program to check whether the number is a Palindrome (/c-examples/c-program-to-check-whether-the-number-is-a-palindrome/)

C Program to print the date in legal fo... ➔ (/c-examples/c-program-to-print-date-in-legal-form/)



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- C Program to find the sum of digits of a number (/c-examples/c-program-to-find-the-sum-of-digits-of-a-number/)
- C Program to find the factorial of a number (/c-examples/c-program-to-find-the-factorial-of-a-number/)
- C Program to find Armstrong numbers (/c-examples/c-program-to-find-armstrong-numbers/)
- C Program to find Prime Numbers (/c-examples/c-program-to-find-prime-numbers/)
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- C Program to print Triad Numbers (/c-examples/c-program-to-print-triad-numbers/)




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- C Program to find the number of denominations for a given amount (/c-examples/c-program-to-find-the-number-of-denominations-for-a-given-amount/)
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- C Program to convert a decimal number to an octal number (/c-examples/c-program-to-convert-a-decimal-number-to-an-octal-number/)
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