

OneMonthCalendar

Write a program that prints a one-month calendar. The first column contains all Mondays, the second one all Tuesdays etc ... The user specifies the number of days in a month and the day of the week of the first day of the printed month.

After the month and day of week have been entered, a single new-line character is printed (see example, there is a single empty line before the days are printed). Each day printed is followed by a single space character (including those at the end of the week in the 7th column; this also simplifies the implementation). After the last day one space character and a newline character is printed. Ensure that you do not print two new-line characters in case the last day is printed in the 7th column, but exactly one new-line character in all cases after the last day.

Examples

(Text in red = user input)

```
Enter number of days in month: 31
Enter starting day of the week (1=Monday, 7=Sunday): 3

    1  2  3  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 31
```

```
Enter number of days in month: 28
Enter starting day of the week (1=Monday, 7=Sunday): 1

 1  2  3  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
```

Hint

The most important part is the for-loop that uses a variable *i* to count from 1 to *n*, where *n* is the number of days in a month, printing each value of *i*. Inside the loop, an if statement tests whether *i* is the last day in a week; if so, it prints a new-line character (again, the remainder-operator % can come to rescue).