

Sequential Calendar Date 11-12-13 is One-of-a-Kind

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If a calendar date in day-month-year date format is expressed as a six-digit number using only the rightmost two digits of the year, today’s date, 11-12-13, is a sequential number calendar date since 11, 12, and 13 are three consecutive integers. Each century contains eleven such sequential number calendar dates: the first being 01-02-03, representing 1 February 2003 in this century, and the last is 11-12-13, corresponding to 11 December 2013 (see Table 1). Also, among all sequential calendar dates, 11-12-13 is one-of-a-kind because not only it is the 345th day of its year, where digits 3, 4 and 5 form a sequential series, but also it coincides with the 21st day of the year if the days are counted backwards starting from the end of the year towards its beginning, where again, digits 2 and 1 are consecutive.

Note that in addition to 11-12-13, this year contained three other sequential calendar dates, each being the last of its kind. First one was 5 August 2013, expressed as 05-08-13, where 5, 8, and 13 constitute three consecutive Fibonacci numbers. Each century has five such sequential Fibonacci-number calendar dates. The first one is 01-01-02, representing 1 January 2002 in this century, and the last one was 05-08-13. Table 2 lists all the five sequential Fibonacci-number calendar dates that occurred in this century.

Second sequential calendar date was 7 November 2013, written as 07-11-13, where 7, 11, and 13 are three consecutive prime numbers. Each century contains four such sequential prime-number calendar dates. The first one was 02-03-05, representing 2 March 2005 in this century, and the last one was 07-11-13 (see Table 3).

Third one was 9 November 2013, expressed as 09-11-13, consisting of three consecutive odd integers, 9, 11, and 13. Each century has five of these sequential odd-number calendar dates. The first was 01-03-05, representing 1 March 2005 in this century, and the last one was 09-11-13 (see Table 4). Note that the last similar sequential even-number calendar date of this century will be 10-12-14, to occur next year on 10 December 2014 (see Table 5).

In addition to the ones discussed above, there exist other types of sequential calendar dates that repeat every century. For example, consider sequential perfect square calendar dates consisting of three consecutive square numbers. There are two such dates in each century. The first in this century occurred on 1 April 2009 expressed as 01-04-09 and the second (last) one will be 04-09-16, to occur on 4 September 2016 (see Table 6).

Note that sequential calendar dates are mostly clustered around the first two decades of each century, simply due to the fact that the month number of a calendar date cannot exceed 12. However, there are exceptions. For example, each century contains only one sequential cube-number calendar date, expressed as 01-08-27. In this century, 01-08-27 represents calendar date 1 August 2027 (see Table 7).

This year is rich with sequential calendar dates because it contains four of them, each being the last of its kind. The last one, 11-12-13, is indeed a very special one since it coincides with the 345th day of 2013. On this day, the times of 08:09:10 and 14:15:16 will particularly be unique because each can be expressed in terms of six consecutive numbers as 08:09:10-11-12-13 and 11-12-13-14:15:16 respectively.

Table 1—Sequential Number Calendar Dates of the 21st Century

1. 1 February 2003	01-02-03	7. 7 August 2009	07-08-09
2. 2 March 2004	02-03-04	8. 8 September 2010	08-09-10
3. 3 April 2005	03-04-05	9. 9 October 2011	09-10-11
4. 4 May 2006	04-05-06	10. 10 November 2012	10-11-12
5. 5 June 2007	05-06-07	11. 11 December 2013	11-12-13
6. 6 July 2008	06-07-08		

Table 2—Sequential Fibonacci-Number Calendar Dates of the 21st Century

1. 1 January 2002	01-01-02	4. 3 May 2008	03-05-08
2. 1 February 2003	01-02-03	5. 5 August 2013	05-08-13
3. 2 March 2005	02-03-05		

Table 3—Sequential Prime-Number Calendar Dates of the 21st Century

1. 2 March 2005	02-03-05	3. 5 July 2011	05-07-11
2. 3 May 2007	03-05-07	4. 7 November 2013	07-11-13

Table 4—Sequential Odd-Number Calendar Dates of the 21st Century

1. 1 March 2005	01-03-05	4. 7 September 2011	07-09-11
2. 3 May 2007	03-05-07	5. 9 November 2013	09-11-13
3. 5 July 2009	05-07-09		

Table 5—Sequential Even-Number Calendar Dates of the 21st Century

1. 2 April 2006	02-04-06	4. 8 October 2012	08-10-12
2. 4 June 2008	04-06-08	5. 10 December 2014	10-12-14
3. 6 August 2010	06-08-10		

Table 6—Sequential Perfect Square Calendar Dates of the 21st Century

1. 1 April 2009	01-04-09
2. 4 September 2016	04-09-16

Table 7—Sequential Cube-Number Calendar Dates of the 21st Century

1. 1 August 2027	01-08-27
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