Record-by-record count by get_calendar_days() algorithm

Data Variables				Algorithm Variables		
ID	**Start Date**	**End Date**		**Previous ID**	**Last Counted Date**	**ICU days**
P004	8/7/2017	8/8/2017	**a**	P004		2
P005	8/8/2017	8/11/2017	**b**	P004	8/8/2017	4
P005	8/11/2017	8/11/2017	**c**	P005	8/11/2017	0
P005	8/14/2017	8/17/2017	**d**	P005	8/11/2017	4
P006	8/5/2017		**e**	P005	8/17/2017	
P006	8/9/2017	8/13/2017	**f**	P006		5
P006	8/13/2017	8/14/2017	**g**	P006	8/13/2017	1
P006	8/14/2017	8/20/2017	**h**	P006	8/14/2017	6

The above tables illustrate the record-by-record count performed by the get_calendar_days() algorithm.

1. Patient P004 has one record **a** and a total ICU-day count of 2.
2. Patient P005 has three records **b**, **c**, and **d**.
    i. Record **b** includes four days, the 8th, 9th, 10th, and 11th of August. Calendar days = 4.
    ii. Record **c** includes one day, August 11th, that was already counted. Calendar days = 0.
    iii. Record **d** includes four days, the 14th, 15th, 16th, and 17th of August, that are not a continuation from the previous record. Calendar days = 4.
3. Patient P006 has four records **e**, **f**, **g**, and **h**.
    i. Record **e** is not counted because only records with both start and end dates are counted. Calendar days = null.
    ii. Record **f** includes five days, the 9th, 10th, 11th, 12th, and 13th of August. Calendar days = 5.
    iii. Record **g** includes two days, the 13th and 14th of August, but the 13th was already counted. Calendar days = 1.
    iv. Record **h** includes seven days, the 14th, 15th, 16th, 17th, 18th, 19th, and 20th of August, but the 14th was already counted. Calendar days = 6.