Text Quality Evaluation Results

This document presents the results of the evaluation of a data-to-text system for generating narratives from Activity of Daily Living (ADL) data, as described in:

Pierre-Luc Vaudry and Guy Lapalme. September 2016. Assembling Narratives with Associative Threads. *CC-NLG* 2016 - *Proceedings of the First Computational Creativity in Natural Language Generation Workshop*, Edinburgh, United Kingdom, September. Association for Computational Linguistics.

This page gives a summary of the results. The rest of this document gives detailed results for each evaluated generated text, one text per page.

Summary

Table 1 and Figure 1 present the compiled results for each evaluation criterion and rating.

Rating	Overall	Style	Grammaticality	Flow	Vocabulary	Understandability
0	2	2	1	4	1	3
1	3	3	5	6	4	4
2	15	12	9	13	5	10
3	15	14	16	18	15	7
4	18	16	12	12	20	15
5	7	13	17	7	15	21

Table 1. Number of evaluations for each rating value for each criterion.

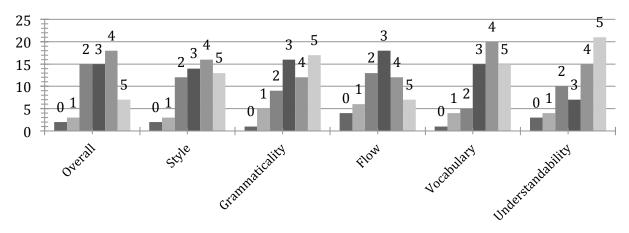


Figure 1. Number of evaluations for each rating value for each criterion.

OrdonezA Monday, 28 November 2011 02:27 AM - Tuesday, 29 November 2011 11:31 AM

OrdonezA got up at 10:18 AM. Then he went to the toilet and took a shower. After his 10:25 AM shower, he ate his breakfast.

In addition to his 10:25 AM shower, he went to the toilet at 1:06 PM. Also as usual at 1:09 PM he left for 20 minutes.

Additionally at 2:22 PM he went to the toilet.

In addition as usual at 3:04 PM he groomed, spent 5 hours in the living room and then he had a snack.

Beside having gotten up at 10:18 AM, he went to bed as usual at 2:16 AM.

Timestamp	12-05-2016 0:09:52	13-05-2016 9:52:49	
Overall	4	2	
Style	4	2	
Grammaticality	4	1	
Flow	3	1	
Vocabulary	4	1	
Understandability	4	3	
Comments	the word "in addition" or "additionaly" is used too much		

OrdonezA Tuesday, 29 November 2011 02:16 AM - Wednesday, 30 November 2011 10:07 AM

OrdonezA got up at 11:31 AM.

As usual at 11:49 AM he took a shower. In addition as usual at 12:19 PM he groomed, spent 2 minutes in the living room, then he had a snack and then he went to the toilet. Also at 5:08 PM he went to the toilet.

As usual at 7:02 PM he left for 1 hour.

Beside having gotten up at 11:31 AM, he went to bed as usual at 1:22 AM.

Timestamp	11-05-2016 16:26:40	14-05-2016 15:17:23
Overall	4	3
Style	5	3
Grammaticality	5	3
Flow	4	4
Vocabulary	4	3
Understandability	4	4
Comments		

OrdonezA Wednesday, 30 November 2011 01:22 AM - Thursday, 1 December 2011 10:50 AM

OrdonezA got up at 10:07 AM. Then he went to the toilet and took a shower. After his 10:14 AM shower, he ate his breakfast.

In addition to his 10:14 AM shower, he groomed as usual at 10:39 AM, spent 2 hours in the living room and then he had a snack.

Aside from his 1:05 PM snack, he had a snack at 4:41 PM.

Beside having groomed at 10:39 AM, he went to the toilet at 7:37 PM. In addition as usual at 7:46 PM he left for 18 minutes.

Beside having gotten up at 10:07 AM, he went to bed as usual at 1:37 AM.

Timestamp	12-05-2016 12:48:26	25-05-2016 13:43:55
Overall	2	4
Style	3	3
Grammaticality	3	3
Flow	2	3
Vocabulary	3	3
Understandability	2	4
Comments		

OrdonezA Thursday, 1 December 2011 01:37 AM - Friday, 2 December 2011 12:15 PM

OrdonezA got up at 10:50 AM and then he took a shower and then he ate his breakfast. In addition to his 10:58 AM shower, he went to the toilet at 7:28 PM. As usual at 5:29 PM he had left for 1 hour.

Also as usual at 2:15 AM he went to bed.

Timestamp	11-05-2016 16:06:10
Overall	4
Style	5
Grammaticality	3
Flow	2
Vocabulary	5
Understandability	4
Comments	The sentence "As usual at 5:29 PM he had left for 1 hour." is ambiguous. Does the author mean that OrdonezA left at 5:29 PM and came back an hour later, or that he'd been gone for an hour by 5:29 PM (left at 4:29 PM)? Also, it should be clearer what time OrdonezA took his shower and ate breakfast, as opposed to simply stating what time he got up.

OrdonezA Friday, 2 December 2011 02:15 AM - Saturday, 3 December 2011 11:56 AM

OrdonezA got up at 12:15 PM. Then he went to the toilet but then he unexpectedly took a shower instead of going to the toilet.

After his 12:21 PM shower, he unexpectedly spent 2 hours in the living room. At 12:37 PM he did not eat his breakfast.

Then however he lunched instead of eating his breakfast.

In addition to having gotten up at 12:15 PM, he went to bed as usual at 1:47 AM.

Timestamp	12-05-2016 12:40:50	19-05-2016 12:47:00
Overall	2	1
Style	2	1
Grammaticality	3	4
Flow	0	1
Vocabulary	2	2
Understandability	1	4
Comments		

OrdonezA Saturday, 3 December 2011 01:47 AM - Sunday, 4 December 2011 12:37 PM

OrdonezA got up at 11:56 AM and at 1:29 PM groomed. In addition at 3:19 AM he went to bed.

Timestamp	16-05-2016 21:55:38	26-05-2016 21:52:57
Overall	4	4
Style	4	2
Grammaticality	5	3
Flow	5	3
Vocabulary	4	4
Understandability	5	4
Comments		

OrdonezA Sunday, 4 December 2011 03:19 AM - Monday, 5 December 2011 11:48 AM

OrdonezA got up at 12:37 PM.

At 2:00 PM he went to the toilet and left for 2 hours. In addition at 5:45 PM he groomed. At 5:27 PM he had had and had had a snack.

Aside from having gotten up at 12:37 PM, he went to bed as usual at 1:35 AM.

Timestamp	11-05-2016 20:24:19	14-05-2016 00:19:35	
Overall	3	3	
Style	4	3	
Grammaticality	2	1	
Flow	2	2	
Vocabulary	5	2	
Understandability	4	2	
Comments			

OrdonezA Monday, 5 December 2011 01:35 AM - Tuesday, 6 December 2011 10:07 AM

OrdonezA got up at 11:48 AM. As usual at 3:44 PM he went to the toilet and at 8:08 PM he went to the toilet. As usual at 5:17 PM he left for 2 hours.

In addition as usual at 12:42 AM he went to bed.

Timestamp	11-05-2016 20:24:19	14-05-2016 00:19:35
Overall	3	3
Style	2	3
Grammaticality	5	3
Flow	2	2
Vocabulary	5	3
Understandability	5	3
Comments	As usual at 3:44 PM he went to the toilet => As usual, he went to the toilet at 3:44 PM.	

OrdonezA Tuesday, 6 December 2011 12:42 AM - Wednesday, 7 December 2011 10:45 AM

OrdonezA got up at 10:07 AM.

As usual at 11:12 AM he took a shower and then he ate his breakfast.

In addition at 5:13 PM he went to the toilet. Also at 6:07 PM he groomed, spent 1 hour in the living room and then he had a snack. Additionally at 7:25 PM he groomed.

In addition to having gotten up at 10:07 AM, he went to bed as usual at 12:59 AM.

Timestamp	12-05-2016 0:09:52	13-05-2016 9:52:49
Overall	5	2
Style	4	2
Grammaticality	5	2
Flow	4	2
Vocabulary	4	3
Understandability	5	3
Comments	This part of sentence seams useless: "In addition to having gotten up at 10:07 AM"	

OrdonezA Wednesday, 7 December 2011 12:59 AM - Thursday, 8 December 2011 11:14 AM

OrdonezA got up at 10:45 AM.

As usual at 11:05 AM he took a shower and then he ate his breakfast. In addition to his 11:12 AM breakfast, he had a snack as usual at 8:37 PM. At 8:40 PM he spent 2 minutes in the living room but then he again spent 2 hours in the living room instead of having a snack.

Also as usual at 3:31 PM he had gone to the toilet. Additionally at 6:14 PM he groomed.

At 4:25 PM he had left for 2 hours.

In addition to having gotten up at 10:45 AM, he went to bed as usual at 1:39 AM.

Timestamp	11-05-2016 16:26:40	14-05-2016 15:17:23
Overall	3	1
Style	3	2
Grammaticality	3	1
Flow	3	1
Vocabulary	4	1
Understandability	2	1
Comments		The links between sentences (additionally, as usual, also) are poorly used making the text difficult to understand in general.

OrdonezA Thursday, 8 December 2011 01:39 AM - Friday, 9 December 2011 10:49 AM

OrdonezA got up at 11:14 AM. As usual at 11:19 AM he took a shower and then he ate his breakfast.

In addition as usual at 1:16 AM he went to bed.

Timestamp	12-05-2016 12:48:26	25-05-2016 13:43:55
Overall	5	4
Style	5	4
Grammaticality	4	4
Flow	4	3
Vocabulary	4	3
Understandability	5	5
Comments		

OrdonezA Friday, 9 December 2011 01:16 AM - Saturday, 10 December 2011 09:26 AM

OrdonezA got up at 10:49 AM. As usual at 10:54 AM he took a shower and then he ate his breakfast.

In addition to his 10:54 AM shower, he went to the toilet at 5:01 PM. At 12:44 PM he had left for 4 hours and he had left for 17 minutes.

Also at 5:59 PM he groomed.

Beside having gotten up at 10:49 AM, he went to bed as usual at 12:50 AM.

Timestamp	11-05-2016 16:06:10
Overall	4
Style	5
Grammaticality	3
Flow	2
Vocabulary	4
Understandability	3
Comments	Same ambiguity with "had left for (time)" as before. There are inconsistencies, like saying that OrdonezA had left for 4 hours but also for 17 minutes. It's also unclear what is meant by "groomed," which includes a wide range of activities.

OrdonezA Saturday, 10 December 2011 12:50 AM - Sunday, 11 December 2011 11:57 AM

OrdonezA got up at 9:26 AM.

As usual at 1:04 PM he left for 4 hours and at 8:25 PM he left for 5 hours. As usual at 2:31 AM he went to bed.

Timestamp	12-05-2016 12:40:50	19-05-2016 12:47:00	
Overall	0	5	
Style	1	5	
Grammaticality	1	5	
Flow	0	5	
Vocabulary	0	5	
Understandability	0	5	
Comments			

OrdonezB Tuesday, 13 November 2012 01:30 AM - Wednesday, 14 November 2012 05:12 AM

OrdonezB got up at 8:52 AM and then he ate his breakfast. In addition to his 8:56 AM breakfast, he had a snack at 10:14 AM. At 10:52 AM he left for 3 hours and he left for 19 minutes.

Aside from his 10:14 AM snack, he dined at 11:17 PM.

As usual at 12:29 AM he went to bed.

Timestamp	12-05-2016 12:40:50	19-05-2016 12:47:00	
Overall	4	4	
Style	5	5	
Grammaticality	3	5	
Flow	5	4	
Vocabulary	5	4	
Understandability	4	5	
Comments			

OrdonezB Wednesday, 14 November 2012 12:29 AM - Thursday, 15 November 2012 07:46 AM

OrdonezB got up at 5:12 AM but then he groomed instead of going to the toilet.

After having groomed at 5:15 AM, he slept 4 hours.

In addition to having groomed at 5:15 AM, he took a shower at 11:56 AM. Then he groomed. Also as usual at 12:29 PM he spent 24 minutes in the living room. Additionally at 9:22 AM he had unexpectedly spent 1 hour in the living room instead of going to the toilet.

After having spent 1 hour in the living room at 9:22 AM, he ate his breakfast instead of grooming.

In addition at 9:37 PM he dined. Additionally at 10:14 PM he had a snack.

After having spent 24 minutes in the living room at 12:29 PM, he had left for 3 minutes. In addition at 2:29 PM he left for 1 hour.

Beside having spent 24 minutes in the living room at 12:29 PM, he spent 1 hour in the living room at 12:43 AM instead of grooming.

Just before that,, however he had slept 4 minutes and he had slept 30 minutes. Then he went to bed again.

Timestamp	12-05-2016 0:09:52	13-05-2016 9:52:49
Overall	2	2
Style	3	2
Grammaticality	3	2
Flow	2	3
Vocabulary	4	3
Understandability	2	3
Comments	The fact that the text does not respect the time flow makes it complicated to follow.	

OrdonezB Thursday, 15 November 2012 01:55 AM - Friday, 16 November 2012 10:37 AM

OrdonezB got up at 7:46 AM and then he went to the toilet, then he slept 2 hours and then he ate his breakfast. In addition to his 9:37 AM breakfast, he had a snack at 10:11 AM.

At 11:42 AM he left for 1 hour. Also at 3:54 PM he left for 4 hours.

Beside his 10:11 AM snack, he had a snack at 10:07 PM.

In addition to having slept at 7:53 AM, he went to bed as usual at 12:58 AM.

Timestamp	11-05-2016 16:26:40	14-05-2016 15:17:23
Overall	5	2
Style	5	1
Grammaticality	5	3
Flow	5	3
Vocabulary	5	3
Understandability	5	1
Comments		This text seems better in terms of grammar and flow but the confused chronology, focusing on events (such as snacks) rather than time, makes it very hard for the reader to have a clear idea of the events of the day.

OrdonezB Friday, 16 November 2012 12:58 AM - Saturday, 17 November 2012 09:46 AM

OrdonezB got up at 10:37 AM and then he ate his breakfast and then he took a shower.

In addition to his 10:39 AM breakfast, he had a snack at 12:09 PM.

At 3:17 PM he left for 3 hours. Also at 10:18 PM he left for 4 hours. At 2:34 AM he went to bed.

Timestamp	12-05-2016 12:48:26	25-05-2016 13:43:55	
Overall	2	4	
Style	0	3	
Grammaticality	1	4	
Flow	0	3	
Vocabulary	1	3	
Understandability	1	5	
Comments			

OrdonezB Saturday, 17 November 2012 02:34 AM - Sunday, 18 November 2012 08:57 AM

OrdonezB got up at 9:46 AM.

At 10:18 AM he took a shower, as usual at 12:35 PM he groomed, spent 2 hours in the living room and then he left for 2 hours. In addition to leaving at 2:42 PM, he left for 1 hour at 10:47 AM. Also as usual at 9:19 PM he left for 3 hours.

At 8:26 PM he had had a snack.

As usual at 1:39 AM he went to bed.

Timestamp	11-05-2016 16:06:10
Overall	4
Style	5
Grammaticality	4
Flow	3
Vocabulary	5
Understandability	4
Comments	Again, the word "groomed" is ambiguous. Verb tense is better overall, except for that one "had had a snack." Otherwise, the report could be a little more specific about what OrdonezB did in the living room for 2 hours.

OrdonezB Sunday, 18 November 2012 01:39 AM - Monday, 19 November 2012 10:09 AM

OrdonezB got up at 8:57 AM. At 9:22 AM he took a shower. In addition at 5:44 PM he groomed and spent 2 hours in the living room. Aside from spending 2 hours in the living room at 5:45 PM, he had spent 14 minutes in the living room at 10:36 AM.

After having spent 2 hours in the living room at 5:45 PM, he left for 3 hours, at 10:53 AM he left for 4 hours and he left for 8 minutes.

At 11:00 PM he had a snack.

As usual at 12:13 AM he went to bed.

Timestamp	12-05-2016 12:40:50	19-05-2016 12:47:00
Overall	1	2
Style	2	4
Grammaticality	0	5
Flow	0	2
Vocabulary	2	4
Understandability	0	4
Comments		

OrdonezB Monday, 19 November 2012 12:13 AM - Tuesday, 20 November 2012 09:58 AM

OrdonezB got up at 10:09 AM.

At 12:04 PM he took a shower and went to the toilet. In addition as usual at 2:27 PM he groomed and spent 2 hours in the living room. Then however he groomed again instead of spending 1 minute in the living room.

At 2:31 PM he left for 1 hour.

At 3:55 PM he had a snack. Also at 9:59 PM he dined. Additionally at 10:31 PM he had a snack.

In addition to having gotten up at 10:09 AM, he went to bed as usual at 1:25 AM.

Timestamp	16-05-2016 21:55:38	26-05-2016 21:52:57
Overall	3	3
Style	4	4
Grammaticality	4	5
Flow	5	4
Vocabulary	4	3
Understandability	5	5
Comments		

OrdonezB Tuesday, 20 November 2012 01:25 AM - Wednesday, 21 November 2012 09:53 AM

OrdonezB got up at 9:58 AM. At 1:01 PM he went to the toilet and left for 5 hours.

In addition as usual at 12:12 AM he went to bed.

Timestamp	11-05-2016 20:24:19	14-05-2016 00:19:35	
Overall	5	3	
Style	5	3	
Grammaticality	5	2	
Flow	4	3	
Vocabulary	5	3	
Understandability	5	2	
Comments			

OrdonezB Wednesday, 21 November 2012 12:12 AM - Thursday, 22 November 2012 10:11 AM

OrdonezB got up at 9:53 AM. At 10:07 AM he spent 1 hour in the living room.

As usual at 9:18 PM he left for 4 hours and at 1:40 AM had a snack. As usual at 1:55 AM he went to bed.

Timestamp	11-05-2016 20:24:19	14-05-2016 00:19:35
Overall	5	3
Style	4	2
Grammaticality	5	2
Flow	4	3
Vocabulary	5	4
Understandability	5	3
Comments		

OrdonezB Thursday, 22 November 2012 01:55 AM - Friday, 23 November 2012 09:40 AM

OrdonezB got up at 10:11 AM.

As usual at 9:06 PM he left for 3 hours and at 12:36 AM had a snack. As usual at 1:34 AM he went to bed.

Timestamp	12-05-2016 0:09:52	13-05-2016 9:52:49
Overall	4	4
Style	5	3
Grammaticality	5	3
Flow	5	4
Vocabulary	4	4
Understandability	5	4
Comments	It would be useful to know what "as usual" means more precisely.	

OrdonezB Friday, 23 November 2012 01:34 AM - Saturday, 24 November 2012 10:02 AM

OrdonezB got up at 9:40 AM and he slept 2 hours. At 12:53 PM he had a snack and at 4:57 PM he had a snack.

As usual at 7:53 PM he left for 2 hours. At 10:07 PM he went to the toilet.

In addition to having slept at 10:56 AM, he went to bed as usual at 12:33 AM.

Timestamp	11-05-2016 16:26:40	14-05-2016 15:17:23
Overall	2	2
Style	3	2
Grammaticality	5	2
Flow	3	3
Vocabulary	5	3
Understandability	2	2
Comments		The first sentence is chronologically very confusing. The rest, even though repetitive and grammatically poor, is understandable.

OrdonezB Saturday, 24 November 2012 12:33 AM - Sunday, 25 November 2012 09:24 AM

OrdonezB got up at 10:02 AM and then he ate his breakfast. As usual at 10:17 AM he went to the toilet but then he unexpectedly spent 1 hour in the living room instead of grooming.

In addition to having gone to the toilet at 10:17 AM, he took a shower at 11:30 AM. Also at 12:01 PM he went to the toilet. Beside his 10:04 AM breakfast, he had a snack at 12:09 PM.

At 2:36 PM he left for 1 hour.

In addition to his 12:09 PM snack, he had a snack at 11:21 PM.

As usual at 1:50 AM he went to bed.

Timestamp	12-05-2016 12:48:26	25-05-2016 13:43:55
Overall	0	5
Style	0	5
Grammaticality	2	5
Flow	2	5
Vocabulary	2	5
Understandability	0	5
Comments		

OrdonezB Sunday, 25 November 2012 01:50 AM - Monday, 26 November 2012 08:50 AM

OrdonezB got up at 9:24 AM. At 10:22 AM he spent 20 minutes in the living room, left for 3 hours and went to the toilet. In addition to having left at 10:44 AM, he left for 4 hours at 3:58 PM.

Also as usual at 1:32 AM he went to bed.

Timestamp	11-05-2016 16:06:10	
Overall	4	
Style	5	
Grammaticality	5	
Flow	4	
Vocabulary	5	
Understandability	5	
Comments	Could mention what time OrdonezB went to the bathroom.	

OrdonezB Monday, 26 November 2012 01:32 AM - Tuesday, 27 November 2012 10:12 AM

OrdonezB got up at 8:50 AM and then he went to the toilet and then he slept 1 hour.

In addition to having gone to the toilet at 8:55 AM, he took a shower at 10:42 AM. Also at 11:15 AM he went to the toilet.

At 11:34 AM he left for 26 minutes. Additionally as usual at 9:17 PM he left for 4 hours.

As usual at 1:43 AM he went to bed.

Timestamp	12-05-2016 12:40:50	19-05-2016 12:47:00
Overall	2	2
Style	2	4
Grammaticality	3	5
Flow	1	2
Vocabulary	3	4
Understandability	4	4
Comments		

OrdonezB Tuesday, 27 November 2012 01:43 AM - Wednesday, 28 November 2012 09:16 AM

OrdonezB got up at 10:12 AM.

At 10:46 AM he spent 1 hour in the living room. In addition as usual at 2:10 PM he spent 25 minutes in the living room, he groomed, just before he had taken a shower and he went to the toilet.

After having spent 25 minutes in the living room at 2:10 PM, he left for 2 hours. Also as usual at 9:12 PM he left for 4 hours.

As usual at 1:51 AM he went to bed.

Timestamp	16-05-2016 21:55:38	26-05-2016 21:52:57
Overall	3	4
Style	3	4
Grammaticality	3	4
Flow	4	3
Vocabulary	5	4
Understandability	5	5
Comments		

OrdonezB Wednesday, 28 November 2012 01:51 AM - Thursday, 29 November 2012 09:35 AM

OrdonezB got up at 9:16 AM.

As usual at 10:04 AM he groomed but then he unexpectedly spent 13 minutes in the living room instead of grooming.

In addition to having spent 13 minutes in the living room at 10:33 AM, he spent 14 minutes in the living room at 10:50 AM. At 11:04 AM he left for 1 hour.

At 12:28 PM he had a snack.

Aside from having left at 11:04 AM, he left for 2 hours at 2:28 PM. Additionally as usual at 7:48 PM he left for 2 hours.

In addition to having groomed at 10:04 AM, he went to the toilet at 11:54 PM and he groomed but just before he had slept 1 hour. He did not go to the toilet at 12:58 AM. After having groomed at 12:58 AM, he went to bed.

Timestamp	11-05-2016 20:24:19	14-05-2016 00:19:35
Overall	2	2
Style	4	2
Grammaticality	4	2
Flow	1	2
Vocabulary	4	1
Understandability	2	2
Comments	Some paragraphs are really confusing. This one in particular: 'In addition to having groomed at 10:04 AM, he went to the toilet at 11:54 PM and he groomed but just before he had slept 1 hour. He did not go to the toilet at 12:58 AM. After having groomed at 12:58 AM, he went to bed.'	
	Also, 'Additionally as usual at 7:48 PM he left for 2 hours': I highly doubt it is usual for anyone to leave for two hours. A sequential description would be best. Just like people do.	

OrdonezB Thursday, 29 November 2012 12:59 AM - Friday, 30 November 2012 10:20 AM

OrdonezB got up at 9:35 AM. Then he ate his breakfast.

At 10:45 AM he left for 3 hours.

At 4:12 PM he groomed and then he went to the toilet. Then however he spent 2 hours in the living room instead of grooming.

In addition to having gotten up at 9:35 AM, he went to bed as usual at 1:41 AM.

Timestamp	16-05-2016 21:55:38	26-05-2016 21:52:57	
Overall	4	3	
Style	4	4	
Grammaticality	5	4	
Flow	4	3	
Vocabulary	5	4	
Understandability	5	5	
Comments			

OrdonezB Friday, 30 November 2012 01:41 AM - Saturday, 1 December 2012 09:40 AM

OrdonezB got up at 10:20 AM. As usual at 10:27 AM he groomed. Then however he ate his breakfast instead of grooming.

In addition as usual at 12:18 AM he went to bed.

Timestamp	12-05-2016 0:09:52	13-05-2016 9:52:49
Overall	3	3
Style	4	3
Grammaticality	4	3
Flow	3	3
Vocabulary	4	3
Understandability	2	3
Comments	Sentence 2 and 3 make nonsense together.	

OrdonezB Saturday, 1 December 2012 12:18 AM - Sunday, 2 December 2012 09:20 AM

OrdonezB got up at 9:40 AM. At 12:52 PM he went to the toilet. At 1:37 PM he lunched.

As usual at 9:20 PM he left for 4 hours and went to bed.

Timestamp	11-05-2016 16:26:40	14-05-2016 15:17:23
Overall	3	4
Style	4	3
Grammaticality	4	2
Flow	3	1
Vocabulary	5	3
Understandability	5	4
Comments		Commas should be used to set off introductory elements in most sentences.