

Homework 10

1.

[ORGGoogle] began in [TIMEJanuary 1996] as a research project by [PERSLarry Page] and [PERSSergey Brin] when they were both PhD students at [ORGStanford University] in [LOCStanford, California]. Prior to the launch of [PRODHangouts], [ORGGoogle] had maintained several [RESmessaging services] and platforms across its suite of [PRODproducts]. These have included the enterprise-oriented [PRODGoogle Talk], [PRODGoogle+ Messenger], and the [PRODHangouts] feature of [PRODGoogle+], which provided [RESchat], [RESvoice], and [RESvideoconferencing] features.

2.

Relations	Cases
Affiliations	<ul style="list-style-type: none"> [PERSLarry Page] PHD student(s) at [ORGStanford University] [PERSSergey Brin] PHD student(s) at [ORGStanford University]
Geospatial	<ul style="list-style-type: none"> [ORGStanford University] in [LOCStanford, California]
Part-Of	<ul style="list-style-type: none"> [RESHangouts], [ORGGoogle]

3.

Student ID	Organization:	Stanford University
	Students:	Larry Page and Sergey Brin
	Location:	Stanford, California
	Time:	January 1996

Organization ID	Organization:	Google
	Products:	Google Talk, Google+ Messenger, Google+, Hangouts
	Features:	Chat, voice, videoconferencing

4.

Alice [OCCURENCEbegan] working on the problem shortly [TIMEafter noon]. Her boss had [OCCURENCEordered] it the [TIMEprevious week], stressing that it [REPORTINGhad to be done] by the [DATE10th of April]. However, her boss [OCCURENCEcame by] [TIMEbefore the end of work], [OCCURENCEsaying] the problem had been on the user's end.

Temporal Expressions	Events	Temporal Relations
[after noon] – Relative Time	[began] – Occurrence	?
[previous week] – Relative Time	[ordered] – Occurrence	?
[10th of April] – Absolute Date	[had to be done] – Reporting	?
[before the end of work] – Relative Time	[came by] – Occurrence	?
-	[saying] - Occurrence	?

5. Thirteen Basic Relations

1. Precedes: $(a < b < c < d)$
2. Meets: $(a < b = c < d)$
3. Overlaps: $(a < c < b < d)$
4. Finished By: $(a < c < b = d)$
5. Contains: $(a < c < d < b)$
6. Starts: $(a = c < b < d)$
7. Preceded by: $(c < d < a < b)$
8. Met by: $(c < d = a < b)$
9. Overlapped by: $(c < a < d < b)$
10. Finishes: $(c < a < b = d)$
11. During: $(c < a < b < d)$
12. Started by: $(c = a < d < b)$
13. Equals: $(a = c < b = d)$

6.

Category: Facts & Figures - Guinness says the record they reject most often is for the longest chain of these office supplies

Fine-grained Tag: Entity: Other

Lexical Answer Types: Noun, Object

Category: 3-Letter Words - According to the cliché, “That’s just” this part “of the iceberg”

Fine-grained Tag: Description: Description

Lexical Answer Types: Noun, Portion

Category: People - Surprisingly, this man, Elvis’ manager, was born in Holland, & his real name is Andreas van Kujik

Fine-grained Tag: Human: Description

Lexical Answer Types: Pronoun, Name

Category: Perfume - Though Niki de Saint Phalle’s perfume shows 2 of these animals entwined on the bottle, people buy it anyway

Fine-grained Tag: Entity: Animal

Lexical Answer Types: Pronoun, Name