

Coding scheme for sequential discourse

Gerry Stahl

The coding scheme in Table 1 was developed based on the analysis of adjacency pairs in (Schegloff, 2007). It was applied to the log of POW Session 4 of Team B, conducted during VMT SpringFest 2006 (see attached Appendix). This scheme was discussed in (Stahl, 2011a; 2011b; 2011c; 2011d). The same log was analyzed in various other VMT publications, including some collected in (Stahl, 2009).

The basic idea is that discourse is built up hierarchically: from (g) various indexical references (e.g., “that”) in (f) textual utterances (e.g., chat postings) contributing to (e) adjacency pairs (e.g., question/answer). Sequences of adjacency pairs (including extensions and recursive embeddings) form (d) discourse moves, which contribute to (c) conversational topics (that are opened and closed). Topics are included in larger (b) group events, which make up (a) the entire session (e.g., Session 4 of Team B).

In Table 1, examples of (c) through (f) are included under those headings.

Schegloff’s symbols are listed for use in coding utterances in adjacency pairs. For each symbol, its meaning is given.

A list of some common FPPs of adjacency pairs are listed, with their corresponding SPPs.

Inserted in the bottom of Table 1, the four typical Turn Constructional Units are listed, with their common constituent utterances. These are discussed in (Zemel & Stahl, 2010).

Table 1. Coding Scheme.

VMT 2006	Spring Fest	Team B	Session 4				
(c) Conversational Topic	(d) Discourse Move	(e) Adjacency Pair	(f) Textual Utterance	(g) Indexical Reference		(b) Group Event	(a) Temporal Session
transition	anticipate	announcement	announce; acknowledge; follow up				
opening	close	compliment	compliment; acknowledge	Schegloff symbols	meaning of symbol	FPP	SPP
technical	open	explanation	explain; acknowledge; follow up	F, Fbase	first pair part (base FPP)	question / ask	answer
feedback	return to	greeting	greet; return greeting; farewell; return farewell	S, Sbase	second pair part (base SPP)	request	grant
select	introduce new approach	joke	joke; laugh; respond to joke; return laughter	Fpre	pre-sequence FPP	offer *	reject

review	terminate use of approach	proposal	propose; acknowledge; ratify; reject; follow up	Spre	pre-sequence SPP	invite *	accept
wiki		question	question; answer; agree; disagree; follow up	Fins	insert sequence FPP	announce	decline
equation		request	request; acknowledge; accept; reject; follow up	Sins	insert sequence SPP	greet	agree
indexing		suggestion	suggest; acknowledge; ratify; reject; follow up	SCT	sequence closing third	farewell	disagree
compare		directive	direct; acknowledge; receive; reject; follow up; report	Fpost	post sequence FPP	notice *	acknowledge
strategy		evaluation	evaluate; acknowledge; agree; disagree	Spost	post sequence SPP	promise *	contest
wrong		commentary	comment; acknowledge; agree; disagree	+S	preferred SPP	tell *	tease
celebrate		clarification	clarify; acknowledge	PCM	post completion musing	complain *	finess
facilitator		repair	self-correct; question; clarify; acknowledge			propose	comply
follow-up		failed X escalated X		ni	non-interactive or system message	suggest	perform
closing		+ (continuation)	+ (continue)	+	continuation	request	ratify
construction						direct	follow up
narrative		TCU: turn constructional unit	Zemel & Stahl NCA 2010 paper & spreadsheet -- actions			joke	receive
reflection		PRU	proposal, ratification, follow up			laugh	report
		SRU	suggestion, ratification, follow up			compliment	assess
		RAU	request, acknowledge, follow up			explain	return
		DCR	directive, receipt, follow up, report			clarify	clarify
						repair	
						evaluate	
						comment	

References

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Appendix

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Line #	Date	Time Start Typing	Time Posting	Duration of Pause	Bwang8	Aznx	Quicksilver	Gerry	J	Explicit Ref	Threading	Code	Utterance Category	Adjacency Pair	Discourse Move	Conversational Topic	Analytic Comment
	1141	5/17/06	0:18:14	0:18:23		Sorry I have to leave early						ni		announce	non-interactive	anticipate issue of early leaving	Transition	Announcement not taken up until 1615
2	1142	5/17/06	0:18:26	0:18:56	0:00:33	updated our wiki page to explain the equation from the last session						ni		announce	non-interactive	anticipate review of wiki	Transition	Announcement taken up at 1216
3	1143	5/17/06	0:34:13	0:34:54	0:15:58	also added some stuff, change anything you want						1142	ni	announce	non-interactive		Transition	
4	1144	5/17/06	0:39:49	0:39:55	0:05:01	I hope you can read this						1143	ni	announce	non-interactive		Transition	
5	1145	5/17/06		0:39:59	0:00:04	leaves the room						ni			system		Transition	
6	1146	5/17/06		14:01:20	13:21:21			joins the room				ni			system		Transition	
7	1147	5/17/06		14:26:46	0:25:26							ni			non-interactive		Transition	
8	1148	5/17/06		14:32:44	0:05:58							ni			non-interactive		Transition	
9	1149	5/17/06		14:53:05	0:20:21							ni			non-interactive		Transition	
10	1150	5/17/06	17:32:22	17:32:41	2:39:36			Here is some feedback from the VMT mentors.		#TextStuff		ni		announce	non-interactive	anticipate discussion of facilitator feedback	Transition	Announcement taken up at 1183
11	1151	5/17/06		17:34:26	0:01:45			leaves the room				ni			system		Transition	
12	1152	5/18/06		18:35:44	1:01:18			joins the room				ni			system		Opening	Preparations and greetings
13	1153	5/18/06		18:53:08	0:17:24	joins the room						ni			system		Opening	
14	1154	5/18/06	18:53:20	18:53:20	0:00:12	hi						F	greet	greeting	open greetings		Opening	
15	1155	5/18/06	18:55:15	18:55:45	0:02:25	$\$sum(1,n,3)=$						ni	experiment	non-interactive			Opening	
16	1156	5/18/06	18:55:49	18:55:59	0:00:14	$\$sum(1,n,3)=\$$						1155	ni	experiment	non-interactive		Opening	
17	1157	5/18/06	18:57:22	18:57:58	0:01:59	$\$sum(1,n,1)=? 4n(n+1)+(n+1)$						1156	ni	experiment	non-interactive		Opening	
18	1158	5/18/06		18:58:10	0:00:12			joins the room				ni			system		Opening	
19	1159	5/18/06		18:58:29	0:00:19			leaves the room				ni			system		Opening	
20	1160	5/18/06	18:58:41	18:58:42	0:00:13	$\$sum(1,n,1)=? 4n(n+1)+(n+1)\$$					1157	1157	ni	experiment	non-interactive		Opening	
21	1161	5/18/06	18:58:47	18:58:52	0:00:10	$\$sum(1,n,1)=4n(n+1)+(n+1)\$$						1160	ni	experiment	non-interactive		Opening	
22	1162	5/18/06	18:59:02	18:59:09	0:00:17	$\$sum(1,n,1)=4n(n+1)+(n+1)\$$						1161	ni	experiment	non-interactive		Opening	
23	1163	5/18/06	18:59:14	18:59:28	0:00:19	$\$sum(1,n,1)=74n(n+1)+(n+1)\$$						1162	ni	experiment	non-interactive		Opening	
24	1164	5/18/06	18:59:30	18:59:34	0:00:06	$\$sum(1,n,1)=4n(n+1)+(n+1)\$$						1163	ni	experiment	non-interactive		Opening	
25	1165	5/18/06	18:59:50	18:59:59	0:00:25	$\$sum(n=1,n,1)=4n(n+1)+(n+1)\$$						1164	ni	experiment	non-interactive		Opening	
26	1166	5/18/06		19:00:10	0:00:11			joins the room				ni			system		Opening	
27	1167	5/18/06	19:00:16	19:00:17	0:00:07	hi						1154	S	return greeting			Opening	
28	1168	5/18/06		19:00:26	0:00:09			joins the room				ni			system		Opening	
29	1169	5/18/06	19:00:15	19:00:26	0:00:00			lol aznx joined the lobby at exactly 4 pm.				1168	F	laugh	joke		Opening	Quicksilver is on the US West Coast, three hours behind the East Coast where the log was recorded in local time.
30	1170	5/18/06	19:00:34	19:00:35	0:00:09	lol						1169	S	laugh at joke			Opening	
31	1171	5/18/06	19:00:36	19:00:36	0:00:01	ok						1168	SCT	agree			Opening	
32	1172	5/18/06	19:00:39	19:00:49	0:00:13	do the rewind button on the chat thing						1171	F	suggest	suggestion		Opening	
33	1173	5/18/06	19:00:44	19:00:55	0:00:06			lol. U guys are punctual				1169	S, F	laugh at joke; give compliment	compliment		Opening	
34	1174	5/18/06	19:00:56	19:00:58	0:00:03		Hey everyone					1167	F	greet	greeting		Opening	
35	1175	5/18/06		19:01:03	0:00:05		leaves the room								system		Technical	Technical: problems with the Internet
36	1176	5/18/06	19:01:02	19:01:03	0:00:00	hi						1174	S	return greeting			Opening	
37	1177	5/18/06	19:01:05	19:01:05	0:00:02			hey				1174	S	return greeting			Opening	
38	1178	5/18/06		19:01:07	0:00:02			joins the room				ni			system		Technical	
39	1179	5/18/06	19:01:09	19:01:10	0:00:03			thanks				1173	S	acknowledge compliment			Opening	
40	1180	5/18/06		19:01:41	0:00:31			leaves the room				ni			system		Technical	
41	1181	5/18/06	19:01:45	19:01:45	0:00:04	?						1180	F	ask question	failed question		Technical	
42	1182	5/18/06		19:01:47	0:00:02			joins the room				ni					Technical	
43	1183	5/18/06	19:01:25	19:01:48	0:00:01			Can everyone see the purple feedback? Someone moved it over a bit				none	F	ask question	question	open discussion of feedback	Feedback	Feedback: discussion of facilitator feedback
44	1184	5/18/06	19:01:58	19:01:58	0:00:08	ywa						1183	S	agree			Feedback	
45	1185	5/18/06	19:01:58	19:01:58	0:00:02	yes						1184	S	self repair			Feedback	
46	1186	5/18/06	19:02:00	19:02:01	0:00:03		yes					1183	S	agree			Feedback	
47	1187	5/18/06	19:02:21	19:02:28	0:00:27	$\$sum(n=1,n,1)=4^n(n+1)+(n+1)\$$						1165	ni	experiment			Opening	
48	1188	5/18/06	19:02:31	19:02:32	0:00:04	test						none	ni	experiment		open discussion of technical problem	Technical	
49	1189	5/18/06	19:02:35	19:02:36	0:00:04	test						1187	F	explain	failed explanation		Opening	
50	1190	5/18/06	19:02:34	19:02:38	0:00:02	I can't see my own messages						1188	F	explain	failed explanation		Technical	
51	1191	5/18/06	19:02:41	19:02:43	0:00:05			I can				1190	S	follow up			Technical	
52	1192	5/18/06	19:02:40	19:02:44	0:00:01			I'm going to log out				1190	F	announce	announcement		Technical	
53	1193	5/18/06	19:02:45	19:02:46	0:00:02	completely						1192	+				Technical	
54	1194	5/18/06	19:02:47	19:02:48	0:00:02			ok				1192	S	acknowledge			Technical	
55	1195	5/18/06	19:02:47	19:02:52	0:00:04			and try back logging in				1193	+				Technical	
56	1196	5/18/06	19:02:52	19:02:52	0:00:00	ok						1192	S	acknowledge			Technical	
57	1197	5/18/06	19:02:52	19:02:53	0:00:01			hold on				1195	F	request	request		Technical	
58	1198	5/18/06	19:02:56	19:02:56	0:00:03			k				1197	S	accept			Technical	
59	1199	5/18/06	19:02:54	19:02:56	0:00:00			hey				1195	F	announce	announcement		Technical	
60	1200	5/18/06	19:02:57	19:02:59	0:00:03			it loaded!				1199	+				Technical	
61	1201	5/18/06	19:03:00	19:03:01	0:00:02			#NAME?				1200	+				Technical	
62	1202	5/18/06	19:03:07	19:03:09	0:00:08	great						1199	S	acknowledge		close discussion of technical problem	Technical	
63	1203	5/18/06	19:03:36	19:03:44	0:00:35			for this session, it says to revisit an old problem				1183	Fpre	announce	announcement	return to discussion of feedback	Select	Select:discussion of math topic
64	1204	5/18/06	19:04:09	19:04:10	0:00:26		Hm.					1203	Spre	acknowledge			Select	

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Line #	Date	Time Start Typing	Time Posting	Duration of Pause	Bwang8	Aznx	Quicksilver	Gerry	J	Explicit Ref	K	Threading	Code	Utterance Category	Adjacency Pair	Discourse Move	Conversational Topic	Analytic Comment
66	1205	5/18/06	19:04:11	19:04:16	0:00:06		Let's make a new problem					1203	Fbase	follow up, propose	proposal	open selection of a new problem	Select	
67	1206	5/18/06	19:03:57	19:04:18	0:00:02	the pyramid one that we didn't finish last time						1205	Fins1	follow up, propose	proposal		Select	
68	1207	5/18/06	19:04:17	19:04:21	0:00:03		Not necessarily 3-D					1206	Fins2	follow up, propose	proposal		Select	
69	1208	5/18/06	19:04:25	19:04:26	0:00:05		Yeah					1206	Sins1	ratify			Select	
70	1209	5/18/06	19:04:30	19:04:31	0:00:05			ok				1207	Sins2	ratify			Select	
71	1210	5/18/06	19:04:28	19:04:32	0:00:01		let's do the pyramid one					1205	Sbase	ratify			Select	
72	1212	5/18/06	19:05:03	19:05:09	0:00:37		How do you remove things from the board?					none	F	question	question	open technical question	Technical	
73	1213	5/18/06	19:05:14	19:05:18	0:00:09			u select and delete				1212	S	answer	proposal		Technical	
74	1214	5/18/06	19:05:01	19:05:22	0:00:04	it is the 2 flat sided pyramid						1210	Fpost	clarify	clarification		Select	
75	1215	5/18/06	19:05:28	19:05:34	0:00:12			oh yes...like the corner of a room				1214	Spost	acknowledge			Select	
76	1216	5/18/06	19:05:33	19:05:42	0:00:08	by the way check out our wiki page						none	F	propose	proposal	open review of wiki	Select	
77	1217	5/18/06	19:05:43	19:05:45	0:00:03		How do you delete?					1213	Fpost	question	question		Technical	
78	1218	5/18/06	19:05:45	19:05:45	0:00:00			ok				1216	S	acknowledge			Select	
79	1220	5/18/06	19:05:43	19:05:48	0:00:03	i updated some stuff						1216	Fpost	announce	failed announcement		Select	
80	1221	5/18/06	19:05:49	19:05:52	0:00:04		I see how you select.					1217	Fins1	clarify	clarification		Technical	
81	1222	5/18/06	19:05:56	19:05:58	0:00:06		But how to delete?					1221	Fins2	question	question		Technical	
82	1223	5/18/06	19:05:56	19:06:06	0:00:08	del button on your keyboard would work						1222	Spost, Sins1, Sins2	answer			Technical	
83	1224	5/18/06	19:06:10	19:06:11	0:00:05		yea					1223	Sins2	agree		close technical question	Select	
84	1225	5/18/06	19:06:42	19:07:07	0:00:56	can someone make our wiki page clearer						1220	F	question	question		Wiki	
85	1226	5/18/06	19:07:11	19:07:19	0:00:12	i can't explain it clear enough						1225	+	+			Wiki	
86	1227	5/18/06	19:07:18	19:07:25	0:00:06			indram! can u stop deleting for a sec				1224	F	request	request		Select	use of real name
87	1228	5/18/06	19:07:31	19:07:39	0:00:14		i can't even see anything for team b on the wiki					1225	Fins1	announce	failed announcement	open problem with viewing wiki	Wiki	
88	1229	5/18/06	19:07:28	19:07:39	0:00:00		Should I delete the session II board?					1227	Fins2	question	question		Select	
89	1230	5/18/06	19:07:50	19:07:55	0:00:16			just minimize				1229	Sins2	answer			Select	
90	1231	5/18/06	19:08:13	19:08:14	0:00:19	ok						1230	Sins2	agree			Select	
91	1232	5/18/06	19:08:16	19:08:16	0:00:02		ok					1230	SCTins2	accept			Select	
92	1233	5/18/06	19:08:20	19:08:27	0:00:11			i don't see anything on the wiki for team b				1225	Fins1	announce	escalated announcement		Wiki	
93	1234	5/18/06	19:08:32	19:08:33	0:00:06	?						1233	Fins3	question	repair		Wiki	
94	1235	5/18/06	19:08:41	19:08:43	0:00:10			i see team a and c				1233	Sins3	answer			Wiki	
95	1236	5/18/06	19:08:44	19:08:46	0:00:03			but i don't see team b				1235	+	+			Wiki	
96	1237	5/18/06	19:09:04	19:09:04	0:00:18		?					1236	Fins3	question	repair		Wiki	
97	1238	5/18/06	19:09:03	19:09:04	0:00:00	which page						1236	Fins4	question	question		Wiki	
98	1239	5/18/06	19:09:07	19:09:08	0:00:04	are you on						1238	+	+			Wiki	
99	1240	5/18/06	19:09:19	19:09:20	0:00:12			o wait...				1236	F	request	request		Wiki	
100	1241	5/18/06	19:09:21	19:09:26	0:00:06			I'm on patterns for the sticks				1240	Fins	clarify	clarification		Wiki	
101	1242	5/18/06	19:10:03	19:10:05	0:00:39		I see it.					1237	S	announce			Wiki	
102	1243	5/18/06	19:10:05	19:10:06	0:00:01			k got it				1241	SCT	announce		close problem of wiki	Wiki	
103	1244	5/18/06	19:10:02	19:10:46	0:00:40			click on the wiki "index" -- you might want http://mathforum.org/wiki/VMTStudents/VMTStudents?OtherSticksProblems&as				1236	F	announce	announcement		Wiki	
104	1245	5/18/06	19:10:52	19:11:02	0:00:16			i got it already, but thanks		1244	1244	S	acknowledge		close problem of wiki	Wiki		
105	1246	5/18/06	19:11:39	19:11:46	0:00:44			what happened at the bottom of the comments?				1245	F	question	failed question	open new problem with wiki	Wiki	
106	1247	5/18/06	19:11:53	19:11:54	0:00:08		Ok.					1243	SCT	acknowledge			Wiki	
107	1248	5/18/06	19:11:55	19:12:00	0:00:06		Let's first discuss about the feedback.					1247	F	propose	proposal	open discussion of feedback	Feedback	
108	1249	5/18/06	19:12:06	19:12:06	0:00:06	ok						1248	S	agree			Feedback	
109	1250	5/18/06	19:12:02	19:12:06	0:00:00		As usual, what do you guys					1248	F	question	question		Feedback	
110	1251	5/18/06	19:12:08	19:12:18	0:00:12	yeah, we didn't work that well last session						1249	S	agree			Feedback	
111	1252	5/18/06	19:12:22	19:12:38	0:00:20	i don't think we understand each other's point						1251	F	propose	proposal		Feedback	
112	1253	5/18/06	19:12:46	19:12:51	0:00:13		I kind of agree and disagree.					1252	S	agree			Feedback	
113	1254	5/18/06	19:12:58	19:12:59	0:00:08			same				1253	S	agree			Feedback	
114	1255	5/18/06	19:12:59	19:13:12	0:00:13			because sometimes we weren't clear on what the problem actually was.				1254	F	propose	proposal		Feedback	
115	1256	5/18/06	19:12:53	19:13:14	0:00:02		I disagree because sometimes, by having a different aspect of the other person's point of view, you come up with a new concept but the problem					1253	S, F	disagree, follow up	proposal		Feedback	
116	1257	5/18/06	19:13:22	19:13:23	0:00:09	ok						1256	S	agree			Feedback	
117	1258	5/18/06	19:13:33	19:13:34	0:00:11			yes				1256	S	agree			Feedback	
118	1259	5/18/06	19:13:26	19:13:39	0:00:05		This would allow us to further investigate not only the answer, but the reason behind it.					1256	F	propose	proposal		Feedback	
119	1260	5/18/06	19:13:35	19:13:52	0:00:13			we might understand the person differently than the other person would.		1256	1256	S, F	agree, follow up	proposal		Feedback		
120	1261	5/18/06	19:13:43	19:13:56	0:00:04		Plus, it become much easier to draw more problems similar to it from just one problem.					1259	+	+			Feedback	
121	1262	5/18/06	19:14:08	19:14:10	0:00:14	yeah						1261	S	agree			Feedback	
122	1263	5/18/06	19:14:02	19:14:17	0:00:07			yes...but at the same time we can't really focus in on one				1261	F	agree, follow up	proposal		Feedback	
123	1264	5/18/06	19:14:18	19:14:23	0:00:06			but it is good we are finding similarities				1263	+	+		close discussion of feedback	Feedback	
124	1265	5/18/06	19:14:26	19:14:28	0:00:05			to other problems				1264	+	+			Feedback	
125	1266	5/18/06	19:14:23	19:14:38	0:00:10	let's just focus on diamond problem today						1263	F	propose	proposal	open selection of a problem	Select	
126	1267	5/18/06	19:14:36	19:14:44	0:00:06		So let's really focus on the pyramid.					1263	F	propose	proposal		Select	

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Line #	Date	Time Start	Time Posting	Duration of Pause	Bwang8	Aznx	Quicksilver	Gerry	J	Explicit Ref	Threadding	Code	Utterance Category	Adjacency Pair	Discourse Move	Conversational Topic	Analytic Comment	
127	1268	5/18/06	19:14:39	19:14:48	0:00:04	we almost got the solution last session						1266	+	+			Select	
128	1269	5/18/06	19:14:48	19:14:49	0:00:01		lol					1266, 1267	F	laugh	repair		Select	
129	1270	5/18/06	19:14:46	19:14:49	0:00:00		Diamond or pyramid?					1266, 1267	F	question	repair		Select	
130	1271	5/18/06	19:14:53	19:14:55	0:00:06	diamond						1270	S	answer			Select	
131	1272	5/18/06	19:14:58	19:14:59	0:00:04		aditya?					1270, 1271	F	question	question		Select	use of real name
132	1273	5/18/06	19:14:55	19:15:02	0:00:03	because we worked on it longer						1271	+	+			Select	
133	1274	5/18/06	19:15:02	19:15:03	0:00:01		diamond					1272	S	answer			Select	
134	1275	5/18/06	19:15:06	19:15:08	0:00:05		agreed then					1274	SCT	ratify			Select	
135	1276	5/18/06	19:15:11	19:15:11	0:00:03	ok						1275	S	agree			Select	
136	1277	5/18/06	19:15:06	19:15:13	0:00:02		we have a more thorough understanding of it					1274	F	proposal	proposal		Select	
137	1278	5/18/06	19:15:17	19:15:18	0:00:05	yeah						1277	S	agree			Select	
138	1279	5/18/06	19:15:54	19:15:57	0:00:39		so where were we?					1277	F	question	question	close selection of problem	Review	start of excerpt from ICCE 2009 paper
139	1280	5/18/06	19:15:23	19:16:00	0:00:03	so right now we know that we must calculate the number of squares on each level by making a big square and minus the 4						1279	S	answer			Review	
140	1281	5/18/06	19:15:22	19:16:03	0:00:03	I'd say, we work on the pyramid problem, solve it thoroughly, and then state the solution as they suggested in the feedback. Then, if we have enough time, which probably will we'll start on the pyramid problem						1275	F	propose	proposal		Select	
141	1282	5/18/06	19:16:16	19:16:21	0:00:18		u said two pyramid problems?					1281	Fins	question	repair		Select	
142	1283	5/18/06	19:16:24	19:16:27	0:00:06		read ur thing again			1281		1281	+	+			Select	
143	1284	5/18/06	19:16:27	19:16:27	0:00:00		OOps					1283	Sins	answer			Select	
144	1285	5/18/06	19:16:30	19:16:34	0:00:07		I meant in the first part the diamond problem					1284	+	+			Select	
145	1286	5/18/06	19:16:34	19:16:37	0:00:03		not the pyramid					1285	+	+			Select	
146	1287	5/18/06	19:16:38	19:16:41	0:00:04		lol					1286	+	+			Select	
147	1288	5/18/06	19:16:41	19:16:41	0:00:00		lol			1281		1281	Fins	laugh	repair		Select	
148	1289	5/18/06	19:16:41	19:16:45	0:00:04		so do diamond?					1287	Fins	question	question		Select	
149	1290	5/18/06	19:16:43	19:16:49	0:00:04		so we first work on the diamond solutions					1289	Sins	answer			Select	
150	1291	5/18/06	19:16:51	19:16:51	0:00:02		yeah					1290	Sins	agree			Select	
151	1292	5/18/06	19:16:52	19:16:57	0:00:06		we pretty much solved it didnt					1291	F	question	question		Select	
152	1293	5/18/06	19:17:05	19:17:09	0:00:12	yeah						1292	S	agree			Select	
153	1294	5/18/06	19:17:05	19:17:11	0:00:02		Well 50% of it I should say.					1292	S	answer			Select	
154	1295	5/18/06	19:17:02	19:17:15	0:00:04		lets just recap the process					1292	F	propose	proposal	open recap of work	Review	
155	1296	5/18/06	19:17:16	19:17:27	0:00:12		from the point of view who had never seen this problem					1295	+	+			Review	
156	1297	5/18/06	19:17:16	19:17:32	0:00:05	we know how to calculate the big square in a level						1295	S	follow up			Review	
157	1298	5/18/06	19:17:43	19:17:44	0:00:12		ok hold on					1297	F	request	request		Review	
158	1299	5/18/06	19:17:45	19:17:50	0:00:05		as in this			#whiteboardDoc		1297	+	+			Review	
159	1300	5/18/06	19:17:54	19:17:56	0:00:06	whole thing						1299	+	+			Review	
160	1301	5/18/06	19:17:45	19:17:57	0:00:01		our objective is to find the amount of squares and sticks in each level right?					1298	F	question	question		Review	
161	1302	5/18/06	19:18:02	19:18:03	0:00:06	yeo						1301	S	agree			Review	
162	1303	5/18/06	19:18:04	19:18:04	0:00:01	yep						1302	S	self-repair			Review	
163	1304	5/18/06	19:18:01	19:18:08	0:00:04		Yeah, intending that it is n.					1301	S	agree			Review	
164	1305	5/18/06	19:18:08	19:18:10	0:00:02		that was step a from the comments					1301	F	propose	proposal		Review	
165	1306	5/18/06	19:18:13	19:18:15	0:00:05		no, step one					1305	+	+			Review	
166	1307	5/18/06	19:18:15	19:18:18	0:00:03		we defined the problem					1306	F	propose	proposal		Review	
167	1308	5/18/06	19:18:17	19:18:21	0:00:03		oh					1307	S	agree			Review	
168	1309	5/18/06	19:18:25	19:18:26	0:00:05		yes					1308	S	agree			Review	
169	1310	5/18/06	19:18:27	19:18:27	0:00:01		lets put that in the wiki now					1308	F	propose	proposal		Wiki	Wiki: negotiate posting to wiki
170	1311	5/18/06	19:18:36	19:18:40	0:00:13		So we dined the problem. Hold on.					1308	S	agree			Wiki	
171	1312	5/18/06	19:18:41	19:18:45	0:00:05		Let's finish the entire thing up first.					1311	Fpre	request	request		Wiki	
172	1313	5/18/06	19:18:49	19:18:50	0:00:05		We can always look back if we mess up.					1313	F	propose	proposal		Wiki	
173	1314	5/18/06	19:18:51	19:18:56	0:00:06		ok					1314	+	+			Wiki	
174	1315	5/18/06	19:18:57	19:19:04	0:00:08		So now we should focus on integrating the solution and how we found it.					1315	F	propose	proposal		Wiki	
175	1316	5/18/06	19:19:08	19:19:07	0:00:03	the formula is correct, right?						1315	F	propose	proposal		Wiki	
176	1317	5/18/06	19:19:13	19:19:24	0:00:17		yep					1318	S	agree			Wiki	
177	1318	5/18/06	19:19:14	19:19:24	0:00:00		this one			#TextStuff:1147994349485-29257065		1317	+	+			Wiki	
178	1319	5/18/06	19:19:41	19:19:42	0:00:18							1318	S	agree			Wiki	
179	1320	5/18/06	19:19:42	19:19:44	0:00:02							1317	+	+			Wiki	
180	1321	5/18/06	19:19:46	19:19:47	0:00:03	ok						1318	S	agree			Wiki	
181	1322	5/18/06	19:19:46	19:19:47	0:00:00		Yeah.					1320	S	agree			Wiki	
182	1323	5/18/06	19:19:48	19:19:55	0:00:08		We can always double check, and if's darn right.					1322	F	propose	proposal		Wiki	
183	1324	5/18/06	19:19:56	19:20:05	0:00:10		So we solve it by really looking at a bigger picture.					1323	+	+			Equation	Equation: work on symbolic representation
184	1325	5/18/06	19:20:10	19:20:15	0:00:10		or bigger square in this case					1324	S	agree			Equation	
185	1326	5/18/06	19:20:12	19:20:20	0:00:05		In this case, the "square" itself.					1325	S	agree			Equation	
186	1327	5/18/06	19:20:22	19:20:23	0:00:03		Yeah.					1326	S	agree			Equation	
187	1328	5/18/06	19:19:52	19:20:34	0:00:11	i think the 4 corner is growing like this						1318	F	propose	proposal	open discussion of growth pattern	Equation	
188	1329	5/18/06	19:20:35	19:20:43	0:00:09	0.1,3,6,10						1328	+	+			Equation	
189	1330	5/18/06	19:20:44	19:20:48	0:00:05	what is the pattern						1329	F	question	question		Equation	
190	1331	5/18/06	19:20:53	19:20:56	0:00:08		Triagnular numbers.					1330	S	answer			Equation	
191	1332	5/18/06	19:20:52	19:20:58	0:00:02		triagnular numbers!					1330	S	answer			Equation	
192	1333	5/18/06	19:20:59	19:21:00	0:00:02	yep						1331	S	agree			Equation	
193	1334	5/18/06	19:20:57	19:21:03	0:00:03		We had already figured that out.					1332					Equation	
194	1335	5/18/06	19:21:01	19:21:10	0:00:07	we can use the equation from session 1						1333	F	propose	proposal	open reuse of equation	Equation	
195	1336	5/18/06	19:21:10	19:21:11	0:00:01		yes					1335	S	agree			Equation	
196	1337	5/18/06	19:21:19	19:21:20	0:00:09		Yup.					1335	S	agree			Equation	
197	1338	5/18/06	19:21:35	19:21:36	0:00:16	n(n+1)/2						1335	F	propose	proposal		Equation	
198	1339	5/18/06	19:21:44	19:21:56	0:00:20	4*n(n+1)/2= the four corners						1338	F	propose	proposal		Equation	
199	1340	5/18/06	19:21:53	19:21:57	0:00:01		this right?			#whiteboardDoc		1338	F	question	question		Equation	
200	1341	5/18/06	19:22:01	19:22:03	0:00:06	yes												

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Line #	Date	Time Start Typing	Time Posting	Duration of Pause	Bwang8	Aznx	Quicksilver	Gerry	J Explicit Ref	K	Threa ding	Code	Utterance Category	Adjacency Pair	Discourse Move	Conversati onal Topic	Analytic Comment
205	1346	5/18/06	19:22:57	19:23:04	0:00:12			we can use the brute force				1345	Sins	answer			Equation	
206	1347	5/18/06	19:23:08	19:23:15	0:00:11			but im sure there's a better way				1346	+				Equation	
207	1348	5/18/06	19:23:14	19:23:19	0:00:04	wait what do you mean						1345	Fins2	question	question		Equation	inquire about strange question
208	1349	5/18/06	19:23:11	19:23:19	0:00:00		Suppose we didn't know the formula.					1335	Fins	question	question		Equation	
209	1350	5/18/06	19:23:29	19:23:36	0:00:17		hmm...					1349	Sins	answer			Equation	
210	1351	5/18/06	19:23:34	19:23:39	0:00:03		Not $n(n+1)/2$					1349	+				Equation	
211	1352	5/18/06	19:23:44	19:23:47	0:00:08		so we don't know that?					1351	Fins3	question	repair		Equation	
212	1353	5/18/06	19:23:28	19:23:50	0:00:03	can you explain this				1345		1345	Fins2	escalated question	question		Equation	
213	1354	5/18/06	19:23:56	19:23:57	0:00:07		look					1353	Sins3	follow up			Equation	
214	1355	5/18/06	19:23:58	19:24:02	0:00:05		he means as the levels increase					1353	Sins2	answer			Equation	
215	1356	5/18/06	19:23:58	19:24:06	0:00:04		first there's $n(n+1)/2$ right?					1354	+				Equation	
216	1357	5/18/06	19:24:04	19:24:09	0:00:03		what is the pattern					1355	+				Equation	
217	1358	5/18/06	19:24:10	19:24:12	0:00:03		So now we know					1356	F	propose			Equation	
218	1359	5/18/06	19:24:12	19:24:19	0:00:07		that the number of squares in the pattern					1358	+				Equation	
219	1360	5/18/06	19:24:20	19:24:24	0:00:05		is related to this formula					1359	+				Equation	
220	1361	5/18/06	19:24:25	19:24:32	0:00:08		because the numbers are triangular numbers					1360	+				Equation	
221	1362	5/18/06	19:24:37	19:24:43	0:00:11		So from there, what do we know what to do?					1361	F	question	question		Equation	
222	1363	5/18/06	19:24:59	19:25:13	0:00:30	$n(n+1)/2^4$						1362	S	answer			Equation	
223	1364	5/18/06	19:25:25	19:25:28	0:00:15		because of four corners					1363	S	answer			Equation	
224	1365	5/18/06	19:25:29	19:25:30	0:00:02		right?					1364	F	question	question		Equation	
225	1366	5/18/06	19:25:21	19:25:36	0:00:06	that is the number of squares in four corners						1363	S	answer			Equation	
226	1367	5/18/06	19:25:40	19:25:40	0:00:04		ok					SCT	agree				Equation	
227	1368	5/18/06	19:25:37	19:25:43	0:00:03		But that's not what it ends up to					1363	F	propose	proposal		Equation	
228	1369	5/18/06	19:25:49	19:25:56	0:00:13		If you double check with our already-given formula					1368	+			open comparison of equation with Team C	Equation	
229	1370	5/18/06	19:25:58	19:26:00	0:00:04		why?					1368	F	question	question		Equation	
230	1371	5/18/06	19:26:05	19:26:07	0:00:07		It's this					1369	S	answer			Equation	
231	1372	5/18/06	19:26:10	19:26:12	0:00:05		oh yeah					1370	S	agree			Equation	
232	1373	5/18/06	19:26:12	19:26:14	0:00:02		it doesn't work					1373	+				Equation	
233	1374	5/18/06	19:26:14	19:26:16	0:00:02		The first one					1371	+				Equation	"the first one"
234	1375	5/18/06	19:26:26	19:26:29	0:00:13	no						1374	S	disagree			Indexing	
235	1376	5/18/06	19:26:30	19:26:39	0:00:10	it is the second one that calculate the square						1375	F	propose	proposal		Indexing	"the second one"
236	1377	5/18/06	19:27:06	19:27:11	0:00:32		are you talking about this?					1374	F	question	repair		Indexing	
237	1378	5/18/06	19:27:17	19:27:21	0:00:10		Then what's the first one for?					1376	F	question	question		Indexing	
238	1379	5/18/06	19:27:25	19:27:27	0:00:06		the sticks					1378	S	answer			Indexing	
239	1380	5/18/06	19:27:30	19:27:33	0:00:06		Oh!					1379	SCT	agree			Indexing	
240	1381	5/18/06	19:27:34	19:27:40	0:00:07		Then the formula makes sense.					1380	+				Indexing	
241	1382	5/18/06	19:27:39	19:27:45	0:00:05		but pretend we don't know those yet					1381	F	propose	failed proposal		Indexing	
242	1383	5/18/06	19:27:44	19:27:47	0:00:02		Yeah, I got it.					1381	Spost	agree			Indexing	
243	1384	5/18/06	19:27:50	19:27:51	0:00:04	lol						1383	S	laugh			Indexing	
244	1385	5/18/06	19:27:55	19:28:01	0:00:10		I got confused with all the formulas lol.					1384	PCM	clarify			Indexing	
245	1386	5/18/06	19:28:12	19:28:16	0:00:15		i suppose so					1385	S	agree			Indexing	
246	1387	5/18/06	19:28:19	19:28:22	0:00:06		So is that all?					1381	F	question	question	open discussion of summary	Wiki	
247	1388	5/18/06	19:28:29	19:28:37	0:00:15		what is the actual solution then? those equations?					1387	F	question	question		Wiki	
248	1389	5/18/06	19:28:41	19:28:43	0:00:06		Yeah.					1388	S	agree			Wiki	
249	1390	5/18/06	19:28:46	19:28:59	0:00:16		but when we put in the wiki how we did it...what will we write					1389	F	question	question	open discussion of wiki posting	Wiki	
250	1391	5/18/06	19:29:19	19:29:20	0:00:21		Um.					1390	S	answer			Wiki	
251	1392	5/18/06	19:29:38	19:29:42	0:00:22		I don't know how to exactly word					1391	+				Wiki	
252	1393	5/18/06	19:29:26	19:29:46	0:00:04		(a) was define the problem, (b) was the solution which we got...					1390	F	propose	proposal	open discussion of feedback	Wiki	start of excerpt from SVM T Ch 26
253	1394	5/18/06	19:29:07	19:29:48	0:00:02	we calculated the # of square if the diamond makes a perfect						1390	S	answer			Wiki	
254	1395	5/18/06	19:29:44	19:29:48	0:00:00		We can define the problem.					1393	S	follow up	proposal		Wiki	
255	1396	5/18/06	19:29:50	19:29:55	0:00:07		We got the solutions.					1393	S	follow up			Wiki	
256	1397	5/18/06	19:30:11	19:30:12	0:00:17		yes					1394	S	agree			Wiki	
257	1398	5/18/06	19:30:12	19:30:16	0:00:04		the added corners					1397	Fpre	propose	proposal		Wiki	
258	1399	5/18/06	19:29:56	19:30:18	0:00:02		But I'm not sure how to explain how we got to the solutions, although it makes perfect sense to me.					1396	F	question	question		Wiki	
259	1400	5/18/06	19:30:17	19:30:19	0:00:01		to make a square					1398	+				Wiki	
260	1401	5/18/06	19:30:20	19:30:24	0:00:05		I'm just not sure how to explain it.					1399	+				Wiki	
261	1402	5/18/06	19:30:20	19:30:23	0:00:01		and we found those were triangular numbers					1400	F	propose	proposal		Wiki	
262	1403	5/18/06	19:30:25	19:30:32	0:00:07		Well, I can explain the second formula.					1401	Fpre	proposal	proposal		Wiki	
263	1404	5/18/06	19:30:31	19:30:35	0:00:03		lets go step by step					1401	F	request	failed request		Indexing	Indexing; problem with indexing (pointing to) equations
264	1405	5/18/06	19:30:36	19:30:37	0:00:02		NO!					1403	S	disagree			Indexing	
265	1406	5/18/06	19:30:38	19:30:42	0:00:05		we don't know hte second					1405	F	propose	repair		Indexing	
266	1407	5/18/06	19:30:33	19:30:45	0:00:03		It was done through the method of fining the pattern of triangular					1403	F	propose	proposal		Indexing	
267	1408	5/18/06	19:30:49	19:30:50	0:00:05		Yes we do.					1406	S	disagree			Indexing	
268	1409	5/18/06	19:30:55	19:30:55	0:00:05		?					1408	F	question	repair		Indexing	
269	1410	5/18/06	19:30:51	19:30:56	0:00:01		Suppose their second formula is our third.					1408	F	propose	proposal		Indexing	their second; our first
270	1411	5/18/06	19:30:56	19:31:06	0:00:10		That was taem c's tho					1410	S	disagree			Indexing	
271	1412	5/18/06	19:31:11	19:31:12	0:00:06		No.					1411	S	disagree			Indexing	
272	1413	5/18/06	19:31:13	19:31:16	0:00:04		They didn't do.					1412	F	propose	proposal		Indexing	
273	1414	5/18/06	19:31:17	19:31:20	0:00:04		The number of squares					1413	+				Indexing	
274	1415	5/18/06	19:31:24	19:31:25	0:00:05		oh!					1412	SCT	follow up			Indexing	
275	1416	5/18/06	19:31:22	19:31:26	0:00:01		or the find the big square					1414	+				Indexing	
276	1417	5/18/06	19:31:26	19:31:27	0:00:01		that formula					1414	+				Indexing	
277	1418	5/18/06	19:31:28	19:31:31	0:00:04		i thot u meant the other one					1417	+				Indexing	
278	1419	5/18/06	19:31:33	19:31:36	0:00:05		yeah that is ours					1418	S	agree			Indexing	
279	1420	5/18/06	19:32:16	19:32:37	0:01:01	point formula out with the tools so we don't get confused						1418	F	request	request		Indexing	
280	1421	5/18/06	19:32:37	19:32:49	0:00:12		So we're technically done with all of it right?					1407	F	question	question	open discussion of wiki posting	Wiki	
281	1422	5/18/06	19:32:50	19:32:51	0:00:02		this is ours					1420	S	follow up			Indexing	
282	1423	5/18/06	19:32:53	19:32:58	0:00:07		all right...lets put it on the wiki					1421	F	request	request		Wiki	
283	1424	5/18/06	19:33:00	19:33:02	0:00:04		That is theirs.					1420	S	follow up			Indexing	
284	1425	5/18/06	19:32:59	19:33:05	0:00:03		adn lets clearly explain it					1423	+				Wiki	

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Line #	Date	Time Start	Time Posting	Duration of Pause	Bwang8	Aznx	Quicksilver	Gerry	J Explicit Ref	Threeding	Code	Utterance Category	Adjacency Pair	Discourse Move	Conversational Topic	Analytic Comment		
285	1426	5/18/06	19:33:08	19:33:11	0:00:06		bwang you do it =P				1423	F	request	request	close discussion of wiki posting	Wiki	end of excerpt from SVMT Ch 26	
286	1427	5/18/06	19:33:07	19:33:13	0:00:02			the comments said we need			1425	+	+			Wiki		
287	1428	5/18/06	19:33:03	19:33:14	0:00:01		we only calculated the number of squares				1423	F	propose	proposal		Strategy		
288	1429	5/18/06	19:33:19	19:33:23	0:00:09		and the big square				1428	S	follow up			Strategy		
289	1430	5/18/06	19:33:28	19:33:30	0:00:07			and subtract			1429	S	follow up			Strategy		
290	1431	5/18/06	19:33:25	19:33:30	0:00:00		we didn't calculate the number of sticks				1429	Fpre	propose	proposal		Strategy		
291	1432	5/18/06	19:33:31	19:33:34	0:00:04		wanna do it?				1431	F	question	question	open problem solving work	Strategy		
292	1433	5/18/06	19:33:34	19:33:36	0:00:02		yes				1432	S	agree			Strategy		
293	1434	5/18/06	19:33:35	19:33:37	0:00:01		oh whoops				1431	S	acknowledge			Strategy		
294	1435	5/18/06	19:33:38	19:33:38	0:00:01		sure				1433	S	agree			Strategy		
295	1436	5/18/06	19:33:37	19:33:40	0:00:02			yea definitely			1432	S	agree			Strategy	end of excerpt from ICCE 2009 paper	
296	1437	5/18/06	19:33:51	19:34:00	0:00:20			So for which one are we trying to find the number of sticks?			1436	F	question	question		Strategy		
297	1438	5/18/06	19:34:01	19:34:06	0:00:06			Only the diamond format?			1437	+	+			Strategy		
298	1439	5/18/06	19:34:10	19:34:13	0:00:07			Right?			1438	+	+			Strategy		
299	1440	5/18/06	19:34:18	19:34:19	0:00:06						1439	S	agree			Strategy		
300	1441	5/18/06	19:34:19	19:34:20	0:00:01		yes				1439	S	agree			Strategy		
301	1442	5/18/06	19:34:38	19:34:45	0:00:25			So the one that we're looking at right now.			1441	F	question	question		Strategy		
302	1443	5/18/06	19:34:50	19:34:51	0:00:06			This one.	#whiteboardDoc		1442	+	+			Strategy		
303	1444	5/18/06	19:34:52	19:34:55	0:00:04			It's step 3 right?			1443	+	+			Strategy		
304	1445	5/18/06	19:34:59	19:34:59	0:00:04		yes				1443	S	agree			Strategy		
305	1446	5/18/06	19:35:03	19:35:06	0:00:07			I think so			1443	S	agree			Strategy		
306	1447	5/18/06	19:35:15	19:35:24	0:00:18			Let's look for a pattern.			1444	F	proposal	proposal		Strategy		
307	1448	5/18/06	19:35:21	19:35:27	0:00:03			how do u add text?	#whiteboardDoc	--	F	question	question		Strategy			
308	1449	5/18/06	19:35:34	19:35:35	0:00:08		Wait!				1447	F	request	request		Strategy		
309	1450	5/18/06	19:35:37	19:35:44	0:00:09			Wouldn't most of them share sticks?			1449	F	question	question		Strategy		
310	1451	5/18/06	19:35:52	19:35:53	0:00:09			yes			1450	S	agree			Strategy		
311	1452	5/18/06	19:35:54	19:35:59	0:00:06			they pretty much all do			1451	+	+			Strategy		
312	1453	5/18/06	19:36:05	19:36:06	0:00:07		yes				1450	S	agree			Strategy		
313	1454	5/18/06	19:35:55	19:36:06	0:00:00			Argh, that makes the problem harder - -			1453	SCT	agree			Strategy		
314	1455	5/18/06	19:36:03	19:36:10	0:00:04			the corners have two all for themselves			1452	F	propose	proposal		Strategy		
315	1456	5/18/06	19:36:10	19:36:13	0:00:03			it is very hard			1454	S	agree			Strategy		
316	1457	5/18/06	19:36:13	19:36:21	0:00:08			the sides have one for			1455	S	follow up			Strategy		
317	1458	5/18/06	19:36:43	19:36:45	0:00:24			wait a min			1456	Fpre	request	request		Strategy		
318	1459	5/18/06	19:36:46	19:36:48	0:00:03			This is my plan			1458	Fpre	propose	proposal		Strategy		
319	1460	5/18/06	19:36:24	19:36:49	0:00:01			maybe we should use the big square to calculate the # of sticks			1456	F	propose	proposal		Strategy		
320	1461	5/18/06	19:36:53	19:36:54	0:00:05		ok				1458	S	agree			Strategy		
321	1462	5/18/06	19:36:50	19:36:55	0:00:01			Do this problem for around 2 minutes			1459	F	proposal	proposal		Strategy		
322	1463	5/18/06	19:36:54	19:36:57	0:00:02		what's your plan				1459	F	question	question		Strategy		
323	1464	5/18/06	19:36:55	19:37:00	0:00:03			on a scratch piece of paper			1462	+	+			Strategy		
324	1465	5/18/06	19:36:50	19:37:00	0:00:00			Each inner square has 2 sticks they share with another			1457	S	follow up			Strategy		
325	1466	5/18/06	19:37:01	19:37:04	0:00:04			then share it with each other			1464	+	+			Strategy		
326	1467	5/18/06	19:37:05	19:37:05	0:00:01			ok?			1466	F	question	question		Strategy		
327	1468	5/18/06	19:37:28	19:37:28	0:00:23			ok			1467	S	agree			Strategy		
328	1469	5/18/06	19:37:33	19:37:33	0:00:05		ok				1467	S	agree			Strategy		
329	1470	5/18/06	19:38:43	19:39:00	0:11:27			I'm thinking that we don't have a large square that surrounds it			1460	S	disagree			Strategy		
330	1471	5/18/06	19:39:14	19:39:15	0:00:15		yeah				1470	S	agree			Strategy		
331	1472	5/18/06	19:39:01	19:39:21	0:00:06			I'm thinking we have the inner square such as these nine	#whiteboardDoc		1470	F	propose	proposal		Strategy		
332	1473	5/18/06	19:39:15	19:39:22	0:00:01		we shouldn't use the big square				1471	S	agree			Strategy		
333	1474	5/18/06	19:39:24	19:39:27	0:00:05		think				1473	+	+			Strategy		
334	1475	5/18/06	19:39:21	19:39:35	0:00:08			then we add the outer four ones that have three sticks each			1472	F	propose	proposal	failed proposal	Strategy		
335	1476	5/18/06	19:39:47	19:39:56	0:00:21			Then you just need the sticks for the square in the middle			1475	+	+			Strategy		
336	1477	5/18/06	19:40:40	19:40:40	0:00:44		lol				1466	Fpre	laugh	joke		Strategy		
337	1478	5/18/06	19:40:42	19:40:45	0:00:05			I figured it out.			1477	Fpre	announce	announcement		Strategy		
338	1479	5/18/06	19:40:45	19:40:49	0:00:04			on a much smaller scale			1478	+	+			Strategy		
339	1480	5/18/06	19:40:50	19:40:53	0:00:04			and it's much easier to			1479	+	+			Strategy		
340	1481	5/18/06	19:40:53	19:40:56	0:00:03			great tell us how			1480	S	acknowledge			Strategy		
341	1482	5/18/06	19:40:59	19:41:01	0:00:05		tell us				1480	S	acknowledge			Strategy		
342	1483	5/18/06	19:40:58	19:41:01	0:00:00			n(4n-1)			1480	F	propose	proposal		Strategy		
343	1484	5/18/06	19:41:04	19:41:06	0:00:05		what is that				1483	F	question	question	failed question	Strategy		
344	1485	5/18/06	19:41:03	19:41:07	0:00:01			but i'm still not sure			1483	Fpost	explain	explanation		Strategy		
345	1486	5/18/06	19:41:08	19:41:10	0:00:03			how to explain it			1485	+	+			Strategy		
346	1487	5/18/06	19:41:11	19:41:13	0:00:03			it works though			1486	F	propose	proposal		Strategy		
347	1488	5/18/06	19:41:18	19:41:20	0:00:07		let's see				1487	S	acknowledge			Strategy		
348	1489	5/18/06	19:41:15	19:41:20	0:00:00			I still need to double check it			1487	S	follow up			Compare	Compare own results with Team C equations	
349	1490	5/18/06	19:41:17	19:41:22	0:00:02			that doesn't work...			1487	S	disagree			Compare		
350	1491	5/18/06	19:41:21	19:41:23	0:00:01			with their formula			1489	+	+			Compare		
351	1492	5/18/06	19:41:26	19:41:30	0:00:07			no but say n is one			1490	F	follow up	proposal		Compare		
352	1493	5/18/06	19:41:34	19:41:39	0:00:09			yeah it's the same			1491	F	propose	proposal		Compare		
353	1494	5/18/06	19:41:35	19:41:43	0:00:04			that is equal to three			1492	+	+			Compare		
354	1495	5/18/06	19:41:41	19:41:44	0:00:01			strange enough			1493	+	+			Compare		
355	1496	5/18/06	19:41:44	19:41:45	0:00:01			right?			1494	F	question	question		Compare		
356	1497	5/18/06	19:41:50	19:41:52	0:00:07			yeah			1496	S	agree			Compare		
357	1498	5/18/06	19:41:56	19:41:56	0:00:04			hm			1495	+	+			Compare		
358	1499	5/18/06	19:41:55	19:41:58	0:00:02			so it doesn't work			1497	SCT	agree		close proposed formula	Compare		
359	1500	5/18/06	19:41:59	19:42:02	0:00:04		mine doesn't work				1498	S	agree	announcement		Compare		
360	1501	5/18/06	19:42:10	19:42:16	0:00:14		I got a lead!!!!!!111				-	Fpre	announce	announcement		Strategy	Strategy: discuss problem-solving approach	
361	1502	5/18/06	19:42:18	19:42:18	0:00:02		ok				1501							

Line #	Date	Time Start Typing	Time Posting	Duration of Pause	F	G	H	I	J	K	L	M	N	O	P	Q	R
1					Bwang8	Aznx	Quicksilver	Gerry	J	Explicit Ref	Threa ding	Code	Utterance Category	Adjacency Pair	Discourse Move	Conversational Topic	Analytic Comment
368	5/18/06	19:42:56	19:43:08	0:00:28	ok i think we need to divide the thing in half						1507	F	propose	proposal		Strategy	
	1510	5/18/06	19:42:54	19:43:16	0:00:08						1503	F	propose	failed proposal		Compare	
369	1511	5/18/06	19:43:13	19:43:17	0:00:01		so its symmetric?			1501	1509	F	question	failed question		Compare	
370	1512	5/18/06	19:43:18	19:43:22	0:00:05						1510	Fpre	question			Compare	
371	1512	5/18/06	19:43:18	19:43:22	0:00:05		what in the world?				1510	Fpre	question			Compare	
372	1513	5/18/06	19:43:23	19:43:26	0:00:04		am i going crazy?				1512	Fpre	question			Compare	
	1514	5/18/06	19:43:12	19:43:26	0:00:00			don't consider the 4 corners			1509	Fpost	direct	failed directive		Compare	
373	1515	5/18/06	19:43:27	19:43:29	0:00:03						1413	F	request	request		Compare	
374	1515	5/18/06	19:43:27	19:43:29	0:00:03		someone check my work.				1515	S	+			Compare	
375	1516	5/18/06	19:43:33	19:43:36	0:00:07		simplify their formula				1515	S	+			Compare	
376	1517	5/18/06	19:43:51	19:43:51	0:00:15						1515	S	+			Compare	
377	1518	5/18/06	19:43:52	19:43:55	0:00:04		what do you mean				1516	F	question	question		Compare	
	1519	5/18/06	19:44:13	19:44:30	0:00:35						1518	S	question response			Compare	
378	1519	5/18/06	19:44:20	19:44:34	0:00:04		i don't see how you can simplify it				1519	F	question	question		Compare	
379	1520	5/18/06	19:44:20	19:44:34	0:00:04						1518	S	answer			Compare	
380	1521	5/18/06	19:44:33	19:44:35	0:00:01		simply the formula				1521	S	+			Compare	
381	1522	5/18/06	19:44:36	19:44:40	0:00:05		for the number of sticks so that simplifies to...				1522	F	propose	proposal		Compare	
382	1523	5/18/06	19:44:41	19:44:45	0:00:05		i still get the same.				1523	S	+			Compare	
383	1524	5/18/06	19:45:41	19:45:45	0:01:00		how did you simplify it				1524	F	question	question		Compare	
384	1525	5/18/06	19:46:15	19:46:20	0:00:35						1525	Fpre	explain	explanation		Compare	
385	1526	5/18/06	19:46:26	19:46:27	0:00:07		um				1526	F	explain	explanation		Compare	
386	1527	5/18/06	19:46:29	19:46:32	0:00:05		square the n-1				1527	S	+			Compare	
387	1528	5/18/06	19:46:34	19:46:39	0:00:07		then multiply the whole thing by 2				1528	S	+			Compare	
388	1529	5/18/06	19:46:40	19:46:47	0:00:08		then multiply the 3 and n				1529	S	+			Compare	
389	1530	5/18/06	19:46:47	19:46:51	0:00:04		and add it with that				1530	S	+			Compare	
390	1531	5/18/06	19:46:52	19:46:57	0:00:06		and subtract by 2				1531	F	question	question		Compare	
391	1532	5/18/06	19:47:11	19:47:14	0:00:17		quicksilver				1531	S	acknowledge			Compare	
	1533	5/18/06	19:47:18	19:47:19	0:00:05			im lost			1532	S	+			Compare	
392	1534	5/18/06	19:47:16	19:47:23	0:00:04		did you get the same answer				1534	S	answer			Compare	
393	1535	5/18/06	19:47:29	19:47:30	0:00:07			no			1535	F	propose	proposal		Compare	
394	1536	5/18/06	19:47:36	19:47:39	0:00:09		i'll do it on the board				1536	S	acknowledge			Compare	
395	1537	5/18/06	19:47:44	19:47:44	0:00:05			yeah			1537	F	acknowledge			Compare	
396	1538	5/18/06	19:47:45	19:47:53	0:00:09			i got something totally difrent			1538	S	answer			Compare	
397	1539	5/18/06	19:48:15	19:48:36	0:00:43		so far i got $4n^2-3n^3$				1539	S	answer			Compare	
398	1540	5/18/06	19:48:17	19:48:55	0:00:19		indranil rite in the box				1540	F	request	request		Compare	uses real name
400	1541	5/18/06	19:49:01	19:49:17	0:00:22		mean $4n^2-n$				1541	F	self-repair	repair		Compare	
401	1542	5/18/06	19:49:25	19:49:26	0:00:09			EXactly			1542	S	agree			Compare	
402	1543	5/18/06	19:49:34	19:49:40	0:00:14			yea that waht azn x got eralier			1543	F	explain	explanation		Compare	
	1544	5/18/06	19:49:58	19:50:00	0:00:20			holy			1544	Fpre	announce	announcem ent		Wrong	
403	1545	5/18/06	19:50:02	19:50:03	0:00:03						1545	S	+			Wrong	
404	1546	5/18/06	19:49:52	19:50:05	0:00:02			whyd u multiply by the two		#whiteboar dDoc	1546	F	question	question		Compare	
405	1547	5/18/06	19:50:06	19:50:13	0:00:08		i think their equation was wrong				1547	F	propose	proposal		Wrong	Wrong: consider that Team C equation may be wrong
406	1548	5/18/06	19:50:11	19:50:15	0:00:02			It's in the equation			1548	S	answer			Wrong	
407	1549	5/18/06	19:50:18	19:50:19	0:00:04			oh			1549	SCT	follow up			Wrong	
408	1550	5/18/06	19:50:19	19:50:20	0:00:01			Whoa dang			1550	Fpre	announce	announcem ent		Wrong	
409	1551	5/18/06	19:50:22	19:50:25	0:00:05			i missed that then			1551	F	explain	explanation		Wrong	
411	1552	5/18/06	19:50:21	19:50:25	0:00:00			their equation is wrong!			1552	F	propose	proposal		Wrong	
412	1553	5/18/06	19:50:27	19:50:28	0:00:02			lol			1553	F	laugh	joke		Wrong	
413	1554	5/18/06	19:50:25	19:50:28	0:00:01			thats why i was off			1554	F	+			Wrong	
414	1555	5/18/06	19:50:28	19:50:36	0:00:08			and coincidentally, that's what i			1555	F	explain	explanation		Wrong	
	1556	5/18/06	19:50:20	19:50:37	0:00:01			because the simplified one wouldn't solve the problem			1556	S	+			Wrong	
415	1557	5/18/06	19:50:37	19:50:41	0:00:04			i was thinking about the sides			1557	S	+			Wrong	
416	1558	5/18/06	19:50:40	19:50:48	0:00:07			why don't we use it on some other level			1558	F	propose	proposal		Wrong	
417	1559	5/18/06	19:50:42	19:50:52	0:00:04			and thought there had to be 4n somewhere in the scenario			1559	S	+			Wrong	
418	1560	5/18/06	19:50:51	19:50:56	0:00:04			see if it works			1560	S	+			Wrong	
419	1561	5/18/06	19:50:56	19:50:57	0:00:01			lol			1561	S	return laugh			Wrong	
420	1562	5/18/06	19:50:59	19:51:00	0:00:03			it doesnt			1562	S	answer			Wrong	
421	1563	5/18/06	19:50:58	19:51:01	0:00:01			never assume			1563	SCT	follow up			Wrong	
422	1564	5/18/06	19:51:03	19:51:05	0:00:04			it doesnt work			1564	F	self-repair	repair		Wrong	
423	1565	5/18/06	19:51:08	19:51:12	0:00:07			it didn't work for one			1565	S	answer			Wrong	
424	1566	5/18/06	19:51:10	19:51:13	0:00:01			quicksilver tried it with 1			1566	F	question	question		Wrong	
425	1567	5/18/06	19:51:17	19:51:17	0:00:04			2			1567	F	question	question		Wrong	
426	1568	5/18/06	19:51:23	19:51:23	0:00:06			no			1568	S	answer			Wrong	
427	1569	5/18/06	19:51:36	19:51:36	0:00:13			nope			1569	S	answer			Wrong	
428	1570	5/18/06	19:51:44	19:51:51	0:00:15			nope they got 3 wrong too			1570	F	propose	proposal		Wrong	
	1571	5/18/06	19:51:59	19:51:59	0:00:08			Greg?			1571	F	question	proposal failed question		Wrong	
430	1572	5/18/06	19:51:56	19:52:00	0:00:01			there are 36 sticks			1572	S	+			Wrong	
431	1573	5/18/06	19:52:03	19:52:04	0:00:04			greg?			1573	F	repair	repair		Facilitator	Facilitator: discuss with facilitator
432	1574	5/18/06	19:52:02	19:52:05	0:00:01			I mean, Gerry? =P			1574	S	clarify			Facilitator	
433	1575	5/18/06	19:52:10	19:52:10	0:00:05			lol			1575	F	clarify	laugh		Facilitator	
434	1576	5/18/06	19:52:02	19:52:11	0:00:01			but they only can get 33			1576	S	+			Facilitator	
435	1577	5/18/06	19:52:21	19:52:21	0:00:10			ok			1577	S	+			Facilitator	
436	1578	5/18/06	19:52:28	19:52:29	0:00:08			Gerry?			1578	F	escalated question	question		Facilitator	
437	1579	5/18/06	19:52:24	19:52:30	0:00:01			let's find out the real solution			1579	F	propose	proposal		Facilitator	
438	1580	5/18/06	19:52:33	19:52:34	0:00:04			yeah			1580	S	agree			Facilitator	
439	1581	5/18/06	19:52:39	19:52:40	0:00:06						1581	F	answer			Facilitator	
440	1582	5/18/06	19:52:44	19:52:48	0:00:08			Their thing doesn't work.		What?	1578	F	explain	explanation		Facilitator	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Line #	Date	Time Start Typing	Time Posting	Duration of Pause	Bwang8	Aznx	Quicksilver	Gerry	Explicit Ref	Threa ding	Code	Utterance Category	Adjacency Pair	Discourse Move	Conversati onal Topic	Analytic Comment	
459	1600	5/18/06	19:55:17	19:55:23	0:00:06	it is the second level						1598 F	explain	explanation		Strategy		
460	1601	5/18/06	19:55:28	19:55:36	0:00:13	divide it in half						1600 +				Strategy		
461	1602	5/18/06	19:55:37	19:55:49	0:00:13	you will get the 1 3 3 1 sequence						1601 +				Strategy		
462	1603	5/18/06	19:55:51	19:55:54	0:00:05			well not really		1999		1599 S	answer			Strategy		
463	1604	5/18/06	19:55:54	19:56:00	0:00:06			we devised our own process				1603 S	follow up			Strategy		
464	1605	5/18/06	19:55:51	19:56:08	0:00:08	when you have 3rd level						1602 +				Strategy		
465	1606	5/18/06	19:56:09	19:56:20	0:00:12	you get 1 3 5 5 3 1 sequence						1605 +				Strategy		
466	1607	5/18/06	19:56:21	19:56:34	0:00:14	4th 1 3 5 7 7 5 3 1 sequence						1606 +				Strategy		
467	1608	5/18/06	19:56:32	19:56:38	0:00:04			pascals triangle numbers?				1606 F	question	question		Strategy		
468	1609	5/18/06	19:56:35	19:56:39	0:00:01	seeing a pattern here						1707 F	question	failed question		Strategy		
469	1610	5/18/06	19:56:43	19:56:45	0:00:06	i don't know						1609 S	answer			Strategy		
470	1611	5/18/06	19:56:48	19:57:00	0:00:15	but there is a equation to summarize it						1610 F	question	question		Strategy		
471	1612	5/18/06	19:56:48	19:57:01	0:00:01			hey aznx what are the pascals triangles first few rows?				1610 F	question	question		Strategy		
472	1613	5/18/06	19:57:01	19:57:04	0:00:03			I don't think it is these				1612 S	answer			Strategy		
473	1614	5/18/06	19:57:16	19:57:17	0:00:13		huh?					1612 F	repair	repair		Strategy		
474	1615	5/18/06	19:57:14	19:57:17	0:00:00	well i have to go						-- Fpre	announce	announcem ent		Closing		
475	1616	5/18/06	19:57:25	19:57:25	0:00:08			oh				1615 Spre	acknowledge			Closing		
476	1617	5/18/06	19:57:26	19:57:27	0:00:02			wel...				1616 +				Closing		
477	1618	5/18/06	19:57:18	19:57:32	0:00:05	the library that i am working at is closing						1615 F	explain	explanation		Closing		
478	1619	5/18/06	19:57:29	19:57:34	0:00:02			too bad this was the last time				1617 S	respond			Closing		
479	1620	5/18/06	19:57:37	19:57:38	0:00:04			oh				1618 +	proposal			Closing		
480	1621	5/18/06	19:57:38	19:57:43	0:00:05	i can come back later						1618 Fpost	proposal	failed proposal		Closing		
481	1622	5/18/06	19:57:51	19:57:52	0:00:09	bye						1621 F	farewell	farewell		Closing		
482	1623	5/18/06	19:57:48	19:57:54	0:00:02			but hits is the last session right?				1621 F	question	question		Closing		
483	1624	5/18/06	19:57:55	19:57:55	0:00:01			bye				1622 S	return	farewell		Closing		
484	1625	5/18/06		19:57:58	0:00:03	leaves the room						ni		system		Closing		
485	1626	5/18/06	19:58:01	19:58:02	0:00:04		Ok.					1613 Fpre	question	question		Strategy		
486	1627	5/18/06	19:58:03	19:58:07	0:00:05		So what were you saying?					1625 F	question			Strategy		
487	1628	5/18/06	19:58:11	19:58:19	0:00:12			it might have been pascals triangle numbers				1627 S	answer			Strategy		
488	1629	5/18/06	19:58:28	19:58:29	0:00:10		Which ones?					1628 Fins	question	question		Strategy		
489	1630	5/18/06	19:58:43	19:58:48	0:00:19			these and the ones above		1607		1629 Sins	answer			Strategy		
490	1631	5/18/06	19:58:54	19:58:58	0:00:10		The triangular numbers?					1628 F	question	question		Strategy		
491	1632	5/18/06	19:59:17	19:59:20	0:00:22			look above				1631 F	direct	directive		Strategy		
492	1633	5/18/06	19:59:22	19:59:22	0:00:02		Oh.					1632 S	respond			Strategy		
493	1634	5/18/06	19:59:22	19:59:26	0:00:04			bwang gave a list of numbers				1632 +				Strategy		
494	1635	5/18/06	19:59:35	19:59:36	0:00:10		They do.					1633 S	answer			Strategy		
495	1636	5/18/06	19:59:44	19:59:48	0:00:12		They are, I should say.					1635 F	repair			Strategy		
496	1637	5/18/06	20:00:22	20:00:25	0:00:37			does that help us ?				1636 F	question	question		Strategy		
497	1638	5/18/06	20:00:42	20:00:43	0:00:18		I duno.					1637 S	answer			Strategy		
498	1639	5/18/06	20:00:44	20:00:53	0:00:10		We might be able to come up with a formula from that					1638 F	proposal	proposal		Strategy		
499	1640	5/18/06	20:00:54	20:00:59	0:00:06		it is a sequence of a sort					1639 +				Strategy		
500	1641	5/18/06	20:01:07	20:01:21	0:00:22			but it is neither arithmetic nor geometric				1640 S	response			Strategy		
501	1642	5/18/06	20:01:27	20:01:28	0:00:07		yeah					1641 S	agree			Strategy		
502	1643	5/18/06	20:01:37	20:01:42	0:00:14		I think we should research on it.					1642 F	proposal	proposal		Strategy		
503	1644	5/18/06	20:01:58	20:02:05	0:00:23		And I'm not writing today's wiki.					-- F	proposal	proposal		Strategy		
504	1645	5/18/06	20:02:03	20:02:07	0:00:02			we have like ten minutes				1644 F	announce	announcem ent		Facilitator		
505	1646	5/18/06	20:02:11	20:02:15	0:00:06		So when are we meeting again?					1645 F	question	question		Facilitator		
506	1647	5/18/06	20:02:20	20:02:32	0:00:17		Hey gerry...didn't you say it could be arranged for us to meet again					1646 F	question	question		Facilitator		
507	1648	5/18/06	20:02:55	20:02:58	0:00:26			Would you like to continue working with your team after tonight?				1647 F	question	question		Facilitator		
508	1649	5/18/06	20:03:04	20:03:05	0:00:07		yes					1648 S	answer			Facilitator		
509	1650	5/18/06	20:03:05	20:03:10	0:00:05		Yeah, definitely.					1648 S	answer			Facilitator		
510	1651	5/18/06	20:03:05	20:03:11	0:00:01			this is rather interesting				1649 Fpost	explain	explanation		Facilitator		
511	1652	5/18/06	20:03:11	20:03:23	0:00:12			we keep finding problems that we don't have time to finish in one meeting				1651 +				Facilitator		
512	1653	5/18/06	20:03:17	20:03:29	0:00:06		It'd be fun to research on pascal's triangles anyways.					1650 Fpost	explain	explanation		Facilitator		
513	1654	5/18/06	20:03:29	20:03:39	0:00:10			What did you notice during these session that seems most interesting to you as far as doing math in a group? Which moments were the most fun?				1653 F	question	question		Facilitator		
514	1655	5/18/06	20:03:32	20:03:39	0:00:00		And we'll actually solve this problem very thoroughly.					1652 +				Facilitator		
515	1656	5/18/06	20:03:48	20:04:12	0:00:33			lets see...Well the times that were most interesting were when someone brought up and entirely new perspective on a problem				1654 S	answer			Facilitator		
516	1657	5/18/06	20:04:22	20:04:28	0:00:16		WE bring up interesting points in a problem.					1654 +	question	response		Facilitator		
517	1658	5/18/06	20:04:15	20:04:29	0:00:01			we were able to learn more from those times				1656 +				Facilitator		
518	1659	5/18/06	20:04:29	20:04:31	0:00:02		and go for them					1657 +				Facilitator		
519	1660	5/18/06	20:04:35	20:04:43	0:00:12		from there, we like derive a million sorts of ideas					1660 +				Facilitator		
520	1661	5/18/06	20:04:35	20:04:43	0:00:00			everyone got to share their own views and explain it to the others				1658 +				Facilitator		
521	1662	5/18/06	20:04:46	20:04:47	0:00:04		yeah					1661 +				Facilitator		
522	1663	5/18/06	20:04:49	20:04:51	0:00:04		and through that					1662 +				Facilitator		
523	1664	5/18/06	20:04:51	20:04:55	0:00:04		we all learned from each other					1663 +				Facilitator		
524	1665	5/18/06	20:04:50	20:05:00	0:00:05			And not only were these times interesin, they were fun				1661 +				Facilitator		
525	1666	5/18/06	20:04:56	20:05:04	0:00:04		on how to approach different even a single problem					1664 +				Facilitator		
526	1667	5/18/06	20:05:02	20:05:09	0:00:05			we got to listen to each other and their thoughts				1664 +				Facilitator		
527	1668	5/18/06	20:05:09	20:05:18	0:00:09			sometimes we argued, but we learned something every meeting				1667 +				Facilitator		
528	1669	5/18/06	20:05:21	20:05:31	0:00:13		Plus, when one didn't understand, we always made sure that person did.					1668 +				Facilitator		
529	1670	5/18/06	20:05:28	20:05:40	0:00:09			as far as doing collaborative math, this is about his first time				1667 +				Facilitator		

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
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530	1671	5/18/06	20:04:57	20:05:46	0:00:06				Well, thank you very much for participating in the VMT Spring Fest. As we said at the beginning, we offered these sessions to give students the chance to do interesting math in teams via the Internet. A number of groups have participated and engaged actively in discussing everyone's ideas, formulating interesting math questions and exploring them.			1664	F	explain	explanation		Facilitator	
531	1672	5/18/06	20:06:06	20:06:11	0:00:25			So it's over then isn't it?				1671	F	question	question		Facilitator	
532	1673	5/18/06	20:06:15	20:06:24	0:00:13			No more meetings =)				1672	+	+			Facilitator	
533	1674	5/18/06	20:06:23	20:06:29	0:00:05				No.			1672	S	answer			Facilitator	
534	1675	5/18/06	20:06:37	20:06:46	0:00:17			Oh well, maybe we can start a club like this at school				1674	F	proposal	proposal		Facilitator	
535	1676	5/18/06	20:06:31	20:06:47	0:00:01				We will give you feedback and you can always come back.			1674	F	proposal	proposal		Facilitator	
536	1677	5/18/06	20:06:52	20:07:01	0:00:14				You can come back to this room			1676	+	+			Facilitator	
537	1678	5/18/06	20:07:04	20:07:06	0:00:05			Ok t hanks				1677	S	respond			Facilitator	
538	1679	5/18/06	20:07:06	20:07:11	0:00:05			When can we see the feedback?				1676	F	question	question		Facilitator	
539	1680	5/18/06	20:07:15	20:07:16	0:00:05			Tomorrow?				1680	+	+			Facilitator	
540	1681	5/18/06	20:07:02	20:07:20	0:00:04				Or you can come to the lobby and explore a different room			1677	+	+			Facilitator	
541	1682	5/18/06	20:07:27	20:07:34	0:00:14			Will u hold this again next year?				1681	F	question	question		Facilitator	
542	1683	5/18/06	20:07:28	20:07:49	0:00:15				You can even create your own rooms in the lobby and invite friends there			1681	+	+			Facilitator	
543	1684	5/18/06	20:07:58	20:07:58	0:00:09			ok				1683	S	acknowledge			Facilitator	
544	1685	5/18/06	20:07:52	20:08:10	0:00:12				We will be doing new topics a lot next year			1682	S	answer			Facilitator	
545	1686	5/18/06	20:08:16	20:08:17	0:00:07			ok				1685	S	acknowledge			Facilitator	
546	1688	5/18/06	20:08:23	20:08:32	0:00:15			So we can see the feedback tomorrow?				1680	F	question	question		Facilitator	
547	1689	5/18/06	20:08:37	20:08:40	0:00:08				We are going to review all of these sessions and select the most collaborative "Virtual Math Teams." We will be in touch with your teachers to inform you of the results.			1688	S	answer			Facilitator	
548	1690	5/18/06	20:08:50	20:08:52	0:00:12			That sounds good				1689	S	question up take			Facilitator	
549	1691	5/18/06	20:08:58	20:09:01	0:00:09			Well, it's goodbye then				1690	F	farewell	farewell		Facilitator	
550	1692	5/18/06	20:09:21	20:09:21	0:00:20							1691	+	+			Facilitator	
551	1693	5/18/06	20:08:50	20:09:23	0:00:02				I can give you some feedback now because I have been thinking a lot about these patterns while I listen to you			1690	Fpre	announce	announcement		Facilitator	
552	1694	5/18/06	20:09:29	20:09:30	0:00:07			ok				1693	S	acknowledge			Facilitator	
553	1695	5/18/06	20:09:36	20:09:37	0:00:07			i have time				1694	S	+			Facilitator	
554	1696	5/18/06	20:09:44	20:09:45	0:00:08			me too				1695	S	acknowledge			Facilitator	
555	1697	5/18/06	20:09:37	20:10:41	0:00:56				1. Look at your formula for the # of squares and the formula from the other team. Are they equivalent? If not, is one wrong?			1693	F	direct	directive		Facilitator	
556	1698	5/18/06		20:11:20	0:00:39			joins the room				ni	system				Facilitator	
557	1699	5/18/06	20:11:29	20:11:30	0:00:10			hey!				1698	F	greeting	greeting		Facilitator	
558	1700	5/18/06	20:11:24	20:11:30	0:00:00			i am finally here				1698	S	greeting response			Facilitator	
559	1701	5/18/06	20:11:30	20:11:35	0:00:05			we're getting some feedback				1700	F	explain	explanation		Facilitator	
560	1702	5/18/06	20:10:45	20:11:38	0:00:03				2. Work more on the # of sticks. Try recursion. The other team's formula is wrong, but the right one is even nicer			1697	F	proposal	proposal		Facilitator	
561	1703	5/18/06	20:11:46	20:11:51	0:00:13			For 1, they are equivalent.				1697	S	answer			Facilitator	
562	1704	5/18/06	20:11:53	20:11:58	0:00:07			and ours was simplified as well.				1703	+	+			Facilitator	
563	1706	5/18/06	20:11:40	20:12:01	0:00:03			i ran to my mom's office and am now using her computer				1700	F	explain	explanation		Facilitator	
564	1707	5/18/06	20:12:16	20:12:30	0:00:29			ok	yea, ours should just be a simplified version of theirs		1704	1704	S	respond			Facilitator	
565	1707	5/18/06	20:12:35	20:12:36	0:00:06			ok			--	S	acknowledge			Facilitator		
566	1708	5/18/06	20:12:36	20:12:48	0:00:12				For 2, I am going to research on the pascal's triangle and recursion more.			1702	S	answer			Facilitator	
567	1709	5/18/06	20:12:42	20:12:56	0:00:08			did you guys came up with the new formula				1707	F	question	question		Facilitator	
568	1710	5/18/06	20:13:00	20:13:01	0:00:05			no				1709	S				Facilitator	
569	1711	5/18/06	20:12:59	20:13:03	0:00:02			no we didn't				1709	S				Facilitator	
570	1712	5/18/06	20:13:04	20:13:10	0:00:07			we were discussing on the future of this class				1711	S				Facilitator	
571	1713	5/18/06	20:13:11	20:13:12	0:00:02			/event				1712	+	repair			Facilitator	
572	1714	5/18/06	20:12:41	20:13:21	0:00:09				I will make a room for you now with a completely different problem. It is one I like a lot and I think you will too.			1702	F	announce	announcement		Facilitator	
573	1715	5/18/06	20:13:34	20:13:35	0:00:14			ok				1714	S	acknowledge			Facilitator	
574	1716	5/18/06	20:13:37	20:13:37	0:00:02			ok				1714	S	acknowledge			Facilitator	

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	1717	5/18/06	20:13:24	20:13:42	0:00:05				You can go to this room anytime. You do not need me there any more			1714	F	explain	explanation		Facilitator	
575	1718	5/18/06	20:13:41	20:13:43	0:00:01			sure				1717	S	acknowledge			Facilitator	
576	1719	5/18/06	20:13:47	20:14:32	0:00:49				You can send email to me and also to the people who have been in your room by using the send mail button at the top.			1717	F	explain	explanation		Facilitator	
577	1720	5/18/06	20:14:40	20:14:44	0:00:12	ok						1719	S	acknowledge			Facilitator	
578	1721	5/18/06	20:14:51	20:14:52	0:00:08		k					1719	S	acknowledge			Facilitator	
579	1722	5/18/06	20:14:57	20:14:58	0:00:06			thats good				1719	S	acknowledge			Facilitator	
580	1723	5/18/06	20:15:00	20:15:04	0:00:06			its a way to discuss				1722	+	+			Facilitator	
581	1724	5/18/06	20:15:03	20:15:40	0:00:36				You are great young mathematicians. I am glad I got a chance to meet you and watch you work together.			1719	F	compliment	compliment		Facilitator	
582	1725	5/18/06	20:15:51	20:15:52	0:00:12			Thank you				1724	S	acknowledge			Facilitator	
583	1726	5/18/06	20:15:50	20:15:57	0:00:05	it is fun being here						1724		acknowledge			Facilitator	
584	1727	5/18/06	20:15:51	20:16:02	0:00:05		Thanks. What's the name of the topic you created for us?					1724, 1714	S	acknowledge			Facilitator	
585	1728	5/18/06	20:15:56	20:16:04	0:00:02			Thanks for guiding us, and yes it was very fun				1724	S	acknowledge			Facilitator	
586	1729	5/18/06	20:16:03	20:16:07	0:00:03		Yeah, it's definitely fun.					1726	S	acknowledge			Facilitator	
587	1730	5/18/06	20:16:17	20:16:20	0:00:13	yes, thank you						1724	S	acknowledge			Facilitator	
588	1731	5/18/06	20:16:27	20:16:36	0:00:16	where is the room you made us?						1714	F	question	question		Facilitator	
589	1732	5/18/06	20:16:42	20:16:51	0:00:15			It should be in open rooms, but we don't know the name				1731	S	answer			Facilitator	
590	1733	5/18/06	20:17:02	20:17:05	0:00:14	ok						1732	SCT	acknowledge			Facilitator	
591	1734	5/18/06	20:17:09	20:17:20	0:00:15	i think we are very close to solving the problem here						1709	Fb	proposal	proposal	open topic	sticks	
592	1735	5/18/06	20:17:27	20:17:35	0:00:15			Oh great...I have to leave			--	Fpre	announce	announcement	open topic	sticks		
593	1736	5/18/06	20:17:31	20:17:39	0:00:04		We can solve on that topic.					1734	Sb	ratify		open topic	sticks	
594	1737	5/18/06	20:17:39	20:17:42	0:00:03			Sorry guys				1735	+	+		open topic	sticks	
595	1738	5/18/06	20:17:40	20:17:45	0:00:03	oh						1735	Spre	acknowledge		open topic	sticks	
596	1739	5/18/06	20:17:42	20:17:46	0:00:01		It shouldn't take much time.					1736	+	+		open topic	sticks	
597	1740	5/18/06	20:17:46	20:17:47	0:00:01	ok						1738	SCT	acknowledge		open topic	sticks	
598	1741	5/18/06	20:17:48	20:17:50	0:00:03		k, bye adilya					1737	F	farewell	farewell	open topic	sticks	
599	1742	5/18/06	20:17:45	20:17:52	0:00:02			Just tell me the name of the room				1737	Fpost	question	question	open topic	sticks	
600	1743	5/18/06	20:17:52	20:17:52	0:00:00	bye						1737	F	farewell	farewell	open topic	sticks	
601	1744	5/18/06	20:17:57	20:18:14	0:00:22				The new room is in the lobby under Open Rooms.			1742	Spost	answer		open topic	sticks	
602	1745	5/18/06	20:18:17	20:18:44	0:00:30				It is under The Grid World. It has your names on it.			1744	+	+		open topic	sticks	
603	1746	5/18/06		20:18:49	0:00:05			leaves the room				ni				open topic	sticks	
604	1747	5/18/06	20:18:58	20:19:00	0:00:11		Alright found it.					1745	SCT	acknowledge		open topic	sticks	
605	1748	5/18/06	20:19:02	20:19:04	0:00:04		Thanks.					1747	+	+		open topic	sticks	
606	1749	5/18/06	20:19:06	20:19:12	0:00:08		I guess we should leave then.					1748	F	question	question	open topic	sticks	
607	1750	5/18/06	20:19:27	20:19:34	0:00:22	well do you want to solve the problem						1749	Fb	question	question	decide to start	sticks	
608	1751	5/18/06	20:19:35	20:19:36	0:00:02	i mean						1750	+	+		decide to start	sticks	
609	1752	5/18/06	20:19:37	20:19:39	0:00:03	we are close						1751	+	+		decide to start	sticks	
610	1753	5/18/06	20:19:46	20:19:48	0:00:09		Alright.					1752	Sb	agree		decide to start	sticks	
611	1754	5/18/06	20:19:40	20:19:51	0:00:03	i don't want to wait til tomorrow						1752	+	+		decide to start	sticks	
612	1755	5/18/06	20:19:52	20:19:53	0:00:02	ok						1753	SCT	agree		decide to start	sticks	
613	1756	5/18/06	20:19:50	20:19:55	0:00:02		How do you want to approach it?					1755	Fb	question	question	pick an approach	sticks	
614	1757	5/18/06	20:19:59	20:20:14	0:00:19	1st level have 1^4						1756	Sb	follow up		pick an approach	sticks	
615	1758	5/18/06	20:19:52	20:20:20	0:00:06			You can put something on the wiki to summarize what you found today.				1757	F	direct	directive	pick an approach	sticks	
616	1759	5/18/06	20:20:16	20:20:29	0:00:09	2st level have (1+3)^4						1757	+	+	proposal	pick an approach	sticks	
617	1760	5/18/06	20:20:29	20:20:32	0:00:03		bwang you put it.					1758	F	direct	directive	pick an approach	sticks	
618	1761	5/18/06	20:20:33	20:20:35	0:00:03		for the wiki					1760	+	+		pick an approach	sticks	
619	1762	5/18/06	20:20:36	20:20:37	0:00:02	ok						1761	S	agree		pick an approach	sticks	
620	1763	5/18/06	20:20:36	20:20:42	0:00:05		we actually did quite a lot today					1761	F	proposal	proposal	pick an approach	sticks	
621	1764	5/18/06	20:20:42	20:20:53	0:00:11	3rd level have (1+3+5)^4						1759	+	+		pick an approach	sticks	
622	1765	5/18/06	20:20:54	20:21:05	0:00:12	4th level have (1+3+5+7)^4						1764	+	+		pick an approach	sticks	
623	1766	5/18/06	20:21:01	20:21:10	0:00:05				This is a nice way to solve it	1764	1764	F	compliment	compliment	pick an approach	sticks		
624	1767	5/18/06	20:21:06	20:21:12	0:00:02		So it's a pattern of +2s?					1765	Fb	question	question	identify pattern	sticks	
625	1768	5/18/06	20:21:14	20:21:15	0:00:03		Ah ha!					1767	+	+		identify pattern	sticks	
626	1769	5/18/06	20:21:15	20:21:15	0:00:00	yes						1767	Sb	agree		identify pattern	sticks	
627	1770	5/18/06	20:21:17	20:21:20	0:00:05		There's the pattern!					1769	Fpost	proposal	proposal	identify pattern	sticks	
628	1771	5/18/06	20:21:19	20:21:39	0:00:19	now we have to find a equation that describe that pattern						1770	F	proposal	proposal	seek equation	sticks	
629	1772	5/18/06	20:21:47	20:21:49	0:00:10		Hold on.					1771	Fpre	request	request	seek equation	sticks	
630	1773	5/18/06	20:21:50	20:21:51	0:00:02		I know it.					1772	+	+		seek equation	sticks	
631	1774	5/18/06	20:21:55	20:21:57	0:00:06	what is it						1773	Fb	question	question	seek equation	sticks	
632	1775	5/18/06	20:21:53	20:21:58	0:00:01		But I'm trying to remember it. =P					1773	+	+		seek equation	sticks	
633																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1	Line #	Date	Time Start Typing	Time Posting	Duration of Pause	Bwang8	Aznx	Quicksilver	Gerry	J Explicit Ref	K	Threading	Code	Utterance Category	Adjacency Pair	Discourse Move	Conversational Topic	Analytic Comment	
	634	1776	5/18/06	20:22:02	20:22:04	0:00:06			and explain it as well.			1775	+	+			seek equation	sticks	
	635	1777	5/18/06	20:22:14	20:22:17	0:00:13			try and think of it			1776	+	+			seek equation	sticks	
	636	1778	5/18/06	20:22:31	20:22:53	0:00:36						1777	F	proposal	failed proposal		seek equation	sticks	
	637	1779	5/18/06	20:22:55	20:23:01	0:00:08			I have to go now			1778	Fpre	announce	announcement		seek equation	sticks	
	638	1780	5/18/06	20:23:02	20:23:05	0:00:04			Bye!			1779	F	farewell	farewell		seek equation	sticks	
	639	1781	5/18/06	20:23:04	20:23:06	0:00:01	ok					1780	Spre	acknowledge			seek equation	sticks	
	640	1782	5/18/06	20:23:06	20:23:07	0:00:01	bye					1781	S	farewell			seek equation	sticks	
	641	1783	5/18/06		20:23:23	0:00:16			leaves the room				ni				seek equation	sticks	
	642	1784	5/18/06	20:23:29	20:23:29	0:00:06	ok					1771	SCT	acknowledge			seek equation	sticks	
	643	1785	5/18/06	20:23:31	20:23:32	0:00:03	so					1784	+	+			seek equation	sticks	
	644	1786	5/18/06	20:23:34	20:23:37	0:00:05	i think it is this					1785	Fpre	proposal	proposal		seek equation	sticks	
	645	1787	5/18/06	20:23:53	20:23:53	0:00:16			ok			1786	SCT	announce			seek equation	sticks	
	646	1788	5/18/06	20:23:54	20:23:55	0:00:02			i found it			1787	Fpre	announce	announcement		seek equation	sticks	
	647	1789	5/18/06	20:23:57	20:24:00	0:00:05			n^2			1788	Sb	answer			seek equation	sticks	
	648	1790	5/18/06	20:23:58	20:24:01	0:00:01	(2^n)/n^2					1786	F	proposal	proposal		seek equation	sticks	
	649	1791	5/18/06	20:24:01	20:24:09	0:00:08			or (n/2)^2			1789	+	+			seek equation	sticks	
	650	1792	5/18/06	20:24:11	20:24:14	0:00:05			I'm simplifying			1791	Fpre	explain			negotiate solution	sticks	
	651	1793	5/18/06	20:24:26	20:24:30	0:00:16			if u simplify urs			1790	+	+			negotiate solution	sticks	
	652	1794	5/18/06	20:24:31	20:24:35	0:00:05			its n^2			1793	Fb	proposal	proposal		negotiate solution	sticks	
	653	1795	5/18/06	20:24:57	20:24:59	0:00:24			bwang			1794	F	question	question		negotiate solution	sticks	
	654	1796	5/18/06	20:25:00	20:25:01	0:00:02			you there?			1795	+	+			negotiate solution	sticks	
	655	1797	5/18/06	20:24:59	20:25:03	0:00:02	so that's wrong					1796	Sb	reject			negotiate solution	sticks	
	656	1798	5/18/06	20:25:06	20:25:07	0:00:04	yeah					1796	S	answer			negotiate solution	sticks	
	657	1799	5/18/06	20:25:07	20:25:08	0:00:01	i am here					1798	+	+			negotiate solution	sticks	
	658	1800	5/18/06	20:25:10	20:25:11	0:00:03			so			1799	Fpre	announce	announcement		check cases	sticks	
	659	1801	5/18/06	20:25:11	20:25:13	0:00:02			the formula			1800	+	+			check cases	sticks	
	660	1802	5/18/06	20:25:16	20:25:22	0:00:09			would be 4n^2?			1801	Fb	question	question		check cases	sticks	
	661	1803	5/18/06	20:25:26	20:25:28	0:00:06	let's check					1802	S	follow up			check cases	sticks	
	662	1804	5/18/06	20:25:54	20:25:55	0:00:27	yes					1803	Spre	agree			check cases	sticks	
	663	1805	5/18/06	20:25:56	20:26:00	0:00:05	it actually is					1804	Sb	answer			check cases	sticks	
	664	1806	5/18/06	20:25:59	20:26:02	0:00:02			So we got it!			1804	SCT	ratify			check cases	sticks	
	665	1807	5/18/06	20:26:01	20:26:02	0:00:00	omg					1805	F	laugh	joke		celebrate	sticks	
	666	1808	5/18/06	20:26:03	20:26:04	0:00:02			yay!			1807	S	laugh			celebrate	sticks	
	667	1809	5/18/06	20:26:03	20:26:08	0:00:04	i think we got it!!!!!!!					1806	Fb	announce	announcement		celebrate	sticks	
	668	1810	5/18/06	20:26:09	20:26:12	0:00:04			WE DID IT!!!!!!			1809	Sb	ratify			celebrate	sticks	
	669	1811	5/18/06	20:26:09	20:26:12	0:00:00	and it is so simple					1809	Fpost	proposal	proposal		celebrate	sticks	
	670	1812	5/18/06	20:26:13	20:26:14	0:00:02			YAY!!!!			1812	S	laugh			celebrate	sticks	
	671	1813	5/18/06	20:26:16	20:26:16	0:00:02			i know			1811	Spost	agree			celebrate	sticks	
	672	1814	5/18/06	20:26:17	20:26:17	0:00:01	lol					1813	S	laugh			celebrate	sticks	
	673	1815	5/18/06	20:26:18	20:26:18	0:00:01			lol			1814	S	laugh			celebrate	sticks	
	674	1816	5/18/06	20:26:28	20:26:34	0:00:16			So you're putting it in the wiki, right?			1815	Fb	question	question		present solution	sticks	
	675	1817	5/18/06	20:26:36	20:26:37	0:00:03	yes					1816	Sb	agree			present solution	sticks	
	676	1818	5/18/06	20:26:39	20:26:41	0:00:04			Alright then.			1817	SCT	follow up			present solution	sticks	
	677	1819	5/18/06	20:26:43	20:26:43	0:00:02	ok					1817	SCT	agree			present solution	sticks	
	678	1820	5/18/06	20:26:42	20:26:53	0:00:10			Give an email to Gerry, telling him that we got it. =)			1819	F	direct	directive		present solution	sticks	
	679	1821	5/18/06	20:26:57	20:26:57	0:00:04	ok					1820	S	agree			present solution	sticks	
	680	1822	5/18/06	20:26:57	20:26:59	0:00:02			I meant Gerry			1820	S	repair			present solution	sticks	
	681	1823	5/18/06	20:26:58	20:27:04	0:00:05	are you going to do it					1820	F	question	question		present solution	sticks	
	682	1824	5/18/06	20:27:05	20:27:07	0:00:03	or am i					1823	+	+			present solution	sticks	
	683	1825	5/18/06	20:27:10	20:27:12	0:00:05			You do it.			1824	S	answer			present solution	sticks	
	684	1826	5/18/06	20:27:13	20:27:14	0:00:02	ok					1825	S	agree			present solution	sticks	
	685	1827	5/18/06	20:27:13	20:27:19	0:00:05			Tell him that we both derived n^2			1826	F	direct	directive		present solution	sticks	
	686	1828	5/18/06	20:27:24	20:27:29	0:00:10			And then we saw that pattern			1827	+	+			present solution	sticks	
	687	1829	5/18/06	20:27:34	20:27:37	0:00:08			and we got the formula			1828	+	+			present solution	sticks	
	688	1830	5/18/06	20:27:38	20:27:44	0:00:07			when should we meet again?			1829	Fb	question	question		close topic	sticks	
	689	1831	5/18/06	20:27:46	20:27:49	0:00:05			that's your email?			1830	Fins	question	question		close topic	sticks	
	690	1832	5/18/06	20:27:49	20:27:52	0:00:03			we should keep in touch			1831	Fins	suggest	suggestion		close topic	sticks	
	691	1833	5/18/06	20:27:53	20:27:57	0:00:05	yeah					1830	Sb	agree			close topic	sticks	
	692	1834	5/18/06	20:28:05	20:28:09	0:00:12	next tuesday?					1833	F	question			Closing	Closing	
	693	1835	5/18/06	20:28:13	20:28:18	0:00:09			next thursday...			1834	S	disagree			Closing	Closing	
	694	1836	5/18/06	20:28:18	20:28:21	0:00:03			sounds good to me			1835	+	+			Closing	Closing	
	695	1837	5/18/06	20:28:23	20:28:29	0:00:08	next thursday					1835	S	agree			Closing	Closing	
	696	1838	5/18/06	20:28:30	20:28:31	0:00:02	ok					1837	+	+			Closing	Closing	
	697	1839	5/18/06	20:28:22	20:28:31	0:00:00			give me your email so i can tell you if its ok with quicksilver			1831	F	question	failed question		Closing	Closing	
	698	1840	5/18/06	20:28:31	20:28:35	0:00:04	it is fine by me					1838	+	+			Closing	Closing	
	699	1841	5/18/06	20:28:33	20:28:35	0:00:00			same time right?			1837	F	question	question		Closing	Closing	
	700	1842	5/18/06	20:28:44	20:28:51	0:00:16	maybe start at 5:30					1841	S	answer			Closing	Closing	
	701	1843	5/18/06	20:28:58	20:28:59	0:00:08			hm			1842	S	agree			Closing	Closing	
	702	1844	5/18/06	20:29:00	20:29:00	0:00:01			ok			1843	+	+			Closing	Closing	
	703	1845	5/18/06	20:29:02	20:29:03	0:00:03			email?			1839	F	question	question	escalation	Closing	Closing	
	704	1846	5/18/06	20:29:03	20:29:04	0:00:01	ok					1844	S	agree			Closing	Closing	
	705	1847	5/18/06	20:29:05	20:29:11	0:00:07	thy413@gmail.com			</									

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Line #	Date	Time Start	Time Typing	Time Posting	Duration of Pause	Bwang8	Azrx	Quicksilver	Gerry	J Explicit Ref	K	Threading	Code	Utterance Category	Adjacency Pair	Discourse Move	Conversational Topic	Analytic Comment
707	1849	5/18/06	20:29:22	20:29:27	0:00:12	hey we both have gamil					1848	1848	F	comment			Closing	
708	1850	5/18/06	20:29:29	20:29:30	0:00:03	lol						1849	S	laugh	joke		Closing	
709	1851	5/18/06	20:29:31	20:29:32	0:00:02		lol					1850	S	laugh			Closing	
710	1852	5/18/06	20:29:32	20:29:35	0:00:03		u have gtalk?					1849	F	question	question		Closing	
711	1853	5/18/06	20:29:46	20:29:52	0:00:17		its the chat messaging system					1852	+	+			Closing	
712	1854	5/18/06	20:29:53	20:29:55	0:00:03		for gmail users					1853	+	+			Closing	
713	1855	5/18/06	20:30:00	20:30:00	0:00:05	yes						1852	S	answer			Closing	
714	1856	5/18/06	20:30:03	20:30:05	0:00:05		you have it?					1855	F	question	question		Closing	
715	1857	5/18/06	20:30:06	20:30:09	0:00:04		is it on right now?					1856	+	+			Closing	
716	1858	5/18/06	20:30:10	20:30:12	0:00:03		i'll invite you					1857	F	proposal	proposal		Closing	
717	1859	5/18/06	20:30:10	20:30:12	0:00:01	i think so						1857	S	answer			Closing	
718	1860	5/18/06	20:30:14	20:30:15	0:00:03	ok						1858	S	agree			Closing	
719	1861	5/18/06	20:30:33	20:30:35	0:00:20		yeah i added you					1860	S	follow up			Closing	
720	1862	5/18/06		20:32:21	0:01:46		leaves the room					ni			system		Closing	
721	1863	5/18/06		20:33:01	0:00:40		joins the room					ni			system		Closing	
722	1864	5/18/06		20:33:11	0:00:10		leaves the room					ni			system		Closing	
723	1865	5/18/06		20:39:26	0:06:15	bwang8 sent an email to mentors. Subject: Gerry, we found the equation! Message: We found the equation for the number of squares in the diamond shortly after you left. It is $4(n^2)$. After we saw the pattern of $1+3+5+7, \dots$, we summarized it with $(2n)n/2$ and that simplify to n^2 . So we times it by four and got the equation.						ni	announce	non-interactive		Closing		
724	1866	5/18/06		21:24:12	0:44:46	leaves the room						ni			non-interactive		Closing	
725	1867	5/18/06		21:50:52	0:26:40		joins the room					ni			system		Follow-up	
726	1868	5/18/06		21:51:28	0:00:36		leaves the room					ni			system		Follow-up	
727	1869	5/19/06		9:59:41	#####		joins the room					ni			system		Follow-up	
728	1870	5/19/06		10:00:40	0:00:59		leaves the room					ni			system		Follow-up	
729	1871	5/19/06		17:00:59	7:00:19							ni			non-interactive		Follow-up	
730	1872	5/19/06		17:03:17	0:02:18							ni			non-interactive		Follow-up	
731	1873	5/21/06		3:10:50	#####		joins the room					ni			system		Follow-up	
732	1874	5/21/06		3:11:20	0:00:30		leaves the room					ni			system		Follow-up	
733	1875	5/21/06		3:11:24	0:00:04		joins the room					ni			system		Follow-up	
734	1876	5/21/06		3:27:53	0:16:29		leaves the room					ni			system		Follow-up	
735	1877	5/21/06		12:47:02	9:19:09			joins the room				ni			system		Follow-up	
736	1878	5/21/06		12:48:12	0:01:10			leaves the room				ni			system		Follow-up	
737	1879	5/22/06		16:16:53	3:28:41				joins the room			ni			system		Follow-up	
738	1880	5/22/06		16:27:30	0:10:37				Gerry sent an email to room members and the mentors. Subject: $4n^2$ Message: Team B: You did a great job finishing up this problem, making your argument clear, making sure you all understood, and checking the answer. Are you going to do the same thing with the grid world problem this week? It is an even more interesting problem I think. I guess some of you worked on it last year, but you might try to do a more thorough job this week and post your analysis on a new page of the wiki. Or else come up with some other problems you want to discuss. Have fun! --Gerry			ni	announce	non-interactive		Follow-up		
739	1881	5/22/06		16:27:33	0:00:03			leaves the room				ni			system		Follow-up	
740	1882	5/23/06		18:31:30	2:03:57	joins the room						ni			system		Follow-up	
741	1883	5/23/06		18:32:30	0:01:00	leaves the room						ni			system		Follow-up	
742	1884	5/25/06		20:28:54	1:56:24		joins the room					ni			system		Follow-up	
743	1885	5/25/06		20:29:52	0:00:58		leaves the room					ni			system		Follow-up	
744	1886	5/26/06		0:42:04	#####	joins the room						ni			system		Follow-up	
745	1887	5/26/06		0:43:40	0:01:36	leaves the room						ni			system		Follow-up	
746	1888	5/26/06		0:45:36	0:01:56	joins the room						ni			system		Follow-up	
747	1889	5/26/06		0:45:52	0:00:16	leaves the room						ni			system		Follow-up	
748	1890	5/31/06		14:17:20	13:31:28			joins the room				ni			system		Follow-up	
749	1891	5/31/06		14:20:48	0:03:28							ni			non-interactive		Follow-up	
750	1892	5/31/06		14:25:41	0:04:53							ni			non-interactive		Follow-up	
751	1893	5/31/06		16:29:18	2:03:37							ni			non-interactive		Follow-up	
752	1894	5/31/06		16:49:04	0:19:46			leaves the room				ni			system		Follow-up	
753	1895	6/3/06		21:19:24	4:30:20			joins the room				ni			system		Follow-up	
754	1896	6/3/06		21:19:57	0:00:33			leaves the room				ni			system		Follow-up	
755	1897	6/3/06		21:20:51	0:00:54			joins the room				ni			system		Follow-up	
756	1898	6/3/06		21:21:11	0:00:20			leaves the room				ni			system		Follow-up	