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Communication skills possessed by developers and its role in successful projects performed by development institution in Ramallah and Al-Bireh governances

Abstract:

This research was conducted between September 2008 and August 2009. And the study case was about the administration and the developing individuals within the developing institutions in Al-Bireh and Ramallah governance. In order to achieve the research's objectives, two types of questionnaires were designed: the first one measure the level of communications skills needed within the developing individual, and the second is to indicate prioritizing these skills based on significance, in addition of the relations of communication skills in the success of any institution.

The first type of questionnaires were given to (55) target beneficiaries selected randomly, as to be a sample for the developing individuals that are working in developing institutions in Al-Bireh and Ramallah governance. But the second type of questionnaire was distributed to (20) administrative and (28) developing individuals selected randomly. The research was conducted based on the descriptive approach, and was analyzed using the Microsoft Office Excel and the Statistical Package for the Social Sciences (SPSS) tools.

The results of the first type of questionnaires are summarized as follows: the concept of communication development available within a developing individual, was clarified that there is no specific curriculum used by the developing institutions that illustrates the methods of communicating with the workers, and when it comes to the term of developing individual, the results shows that the researchers well awareness of the developing individual perception more than the developing communication terminology.

Concerning the developing individual's possession of communicational skills, the results reflected clearly that most aspect categorized within the developing individuals is the communication and reception environment. But in the case of communication level within a person, the result illustrated that a developing individual possess the skill of listening as the highest, then the skill of information selection (especially with cases of meeting non-homogenous participants). Finally, the skill of delivering information with least words possible. But regarding the skills possessed by the developing individual, shown that the communication environment is the priority, then composing the message, but the skills within a single case shown a different pattern in the priorities, maintaining the continuous attention of the participants is prioritized, then the skill of listening, after that selecting the appropriate time for communication.

In the matter of relations between communication skills with the success of any institution, it was indicated that the skills of composing any message is the most effective indication for the success of any institution, then the channel of communication. But the skills of a single case earned the primary skill, then selecting the communication method for the participants, after that the skill of good listening, and finally, effective time management.

The researchers of administration and developing individuals agreed that the audience and the institution's reputation are both considered to be the most effecting indicators to the direct communication skills. However, the reception environment in the developing

individual's point of view is considered the most effecting on the communication aspect and the increase of the audience's cooperation, on the other hand the communication environment is the effecting aspect in the administration individual's point of view.

Based on all of the prior results, the research proposed the necessity of depending on the developing communication of the developing institutions as a reference, by benefiting from the studies that are related, and from the specialized institutions in the matter. In addition, it is important to focus on performing training of trainers (TOT) in this aspect, through benefiting from all the working experience in the field of development, and also from the feedback, the administrators received from the developing individuals about the implemented project.

Finally, the research also recommends that the institution that will perform an external evaluation to implement projects, to influence the developing communication skills, in order to guarantee the success of development projects as an vital indicator in the evaluation process.

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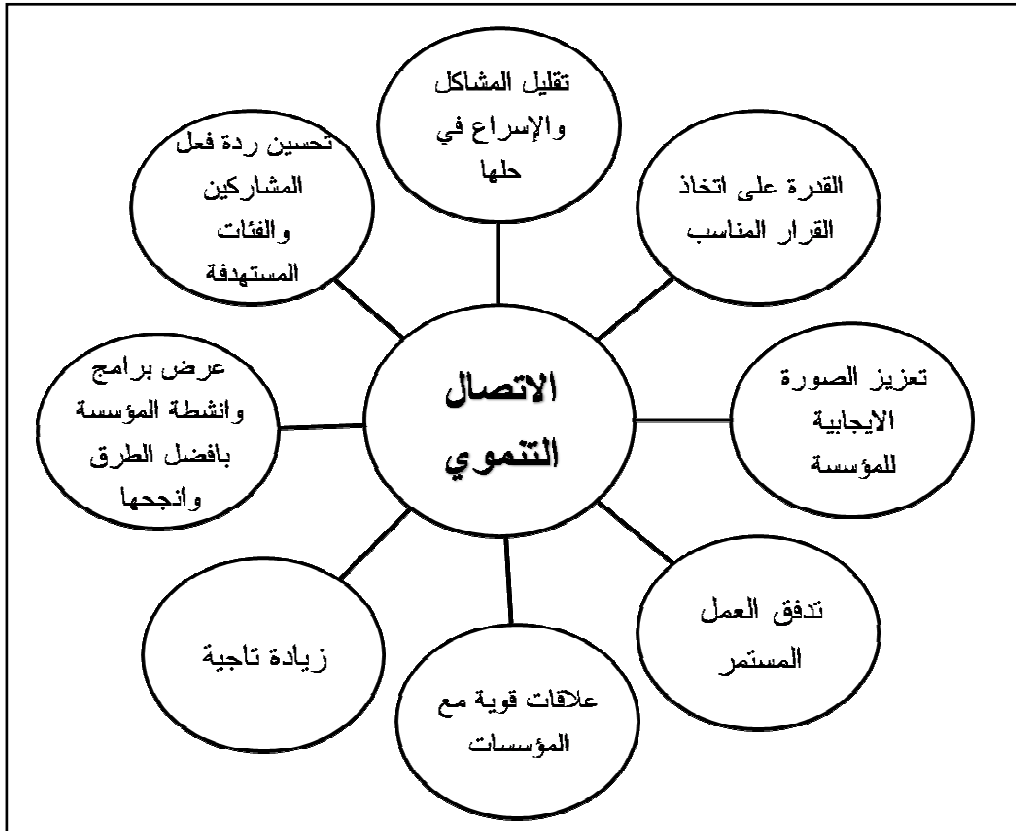
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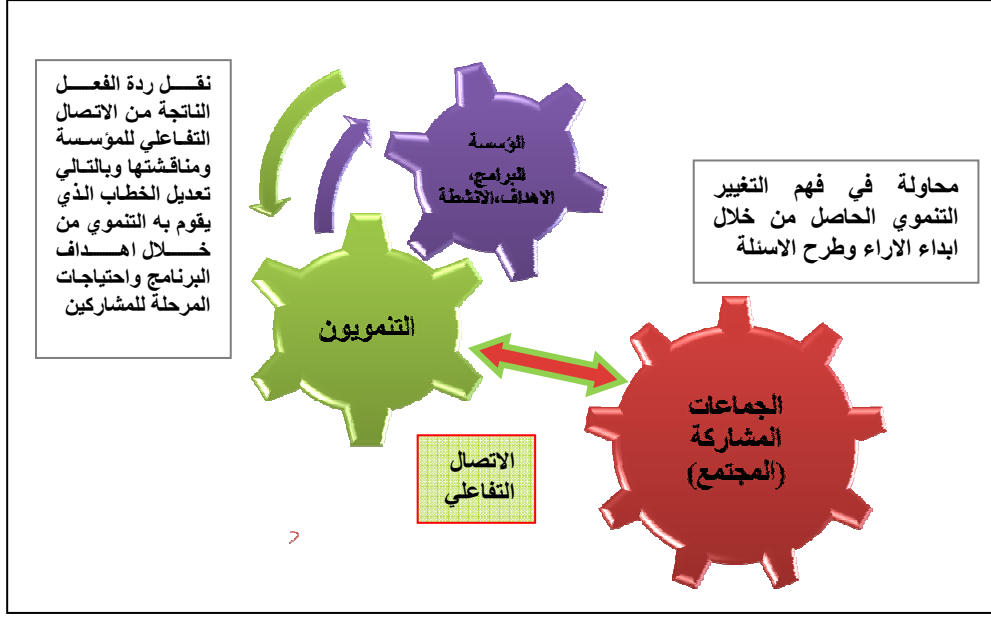
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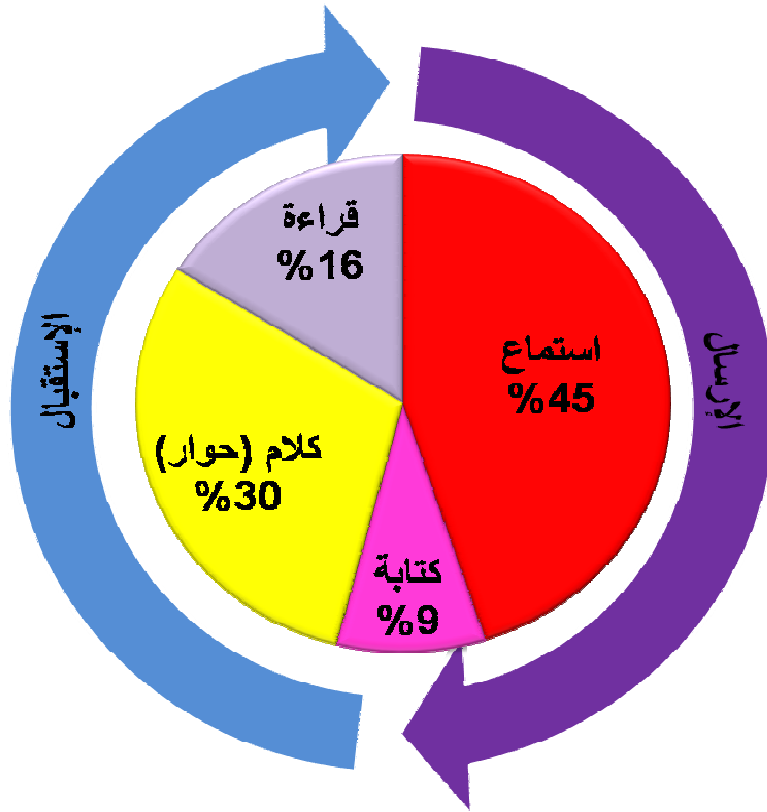
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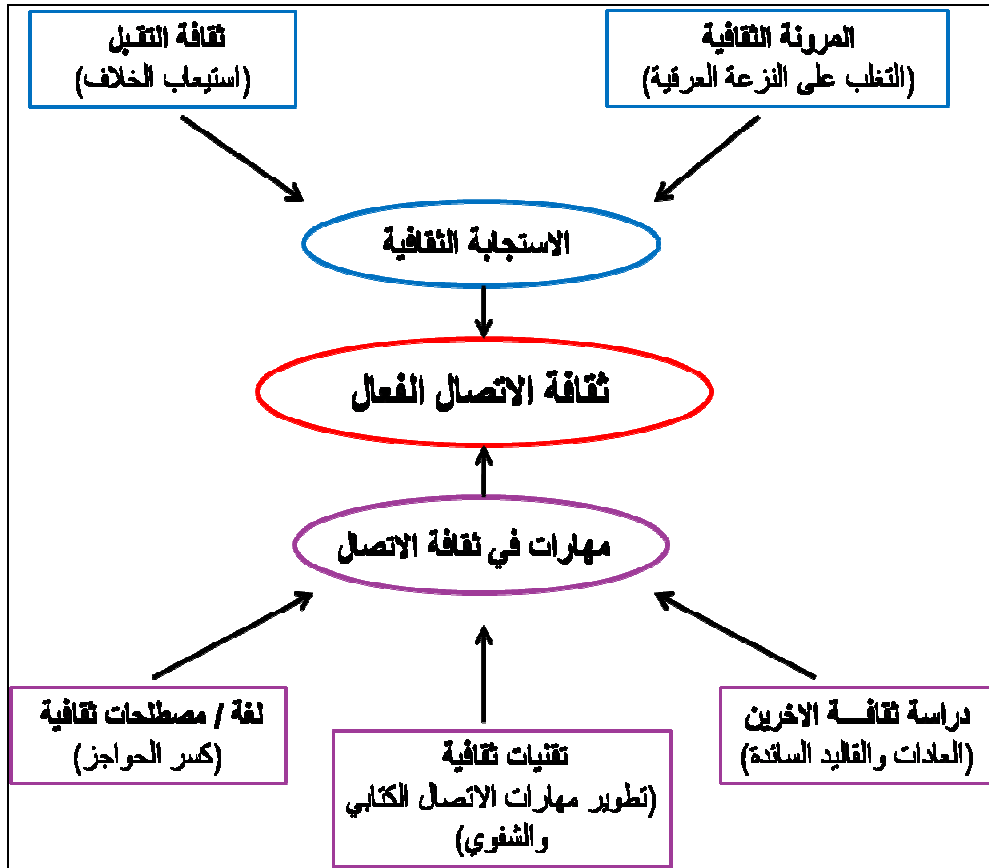
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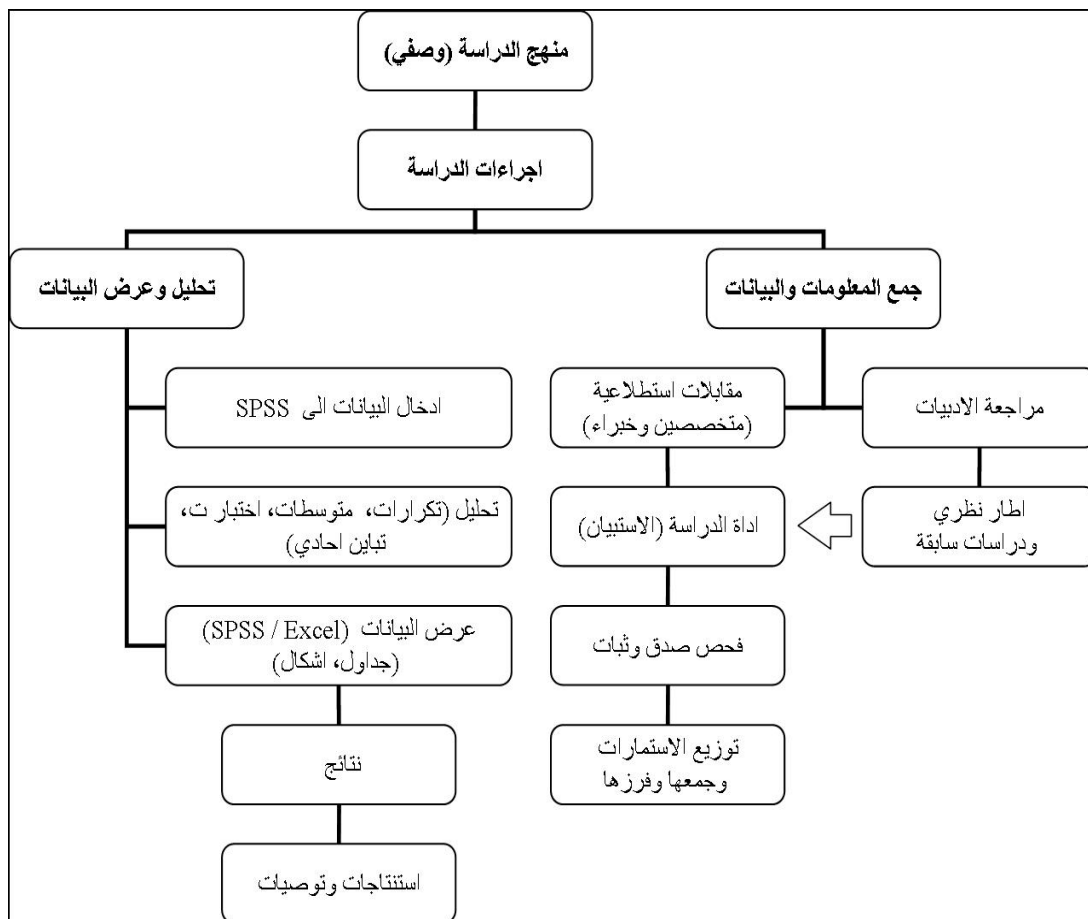
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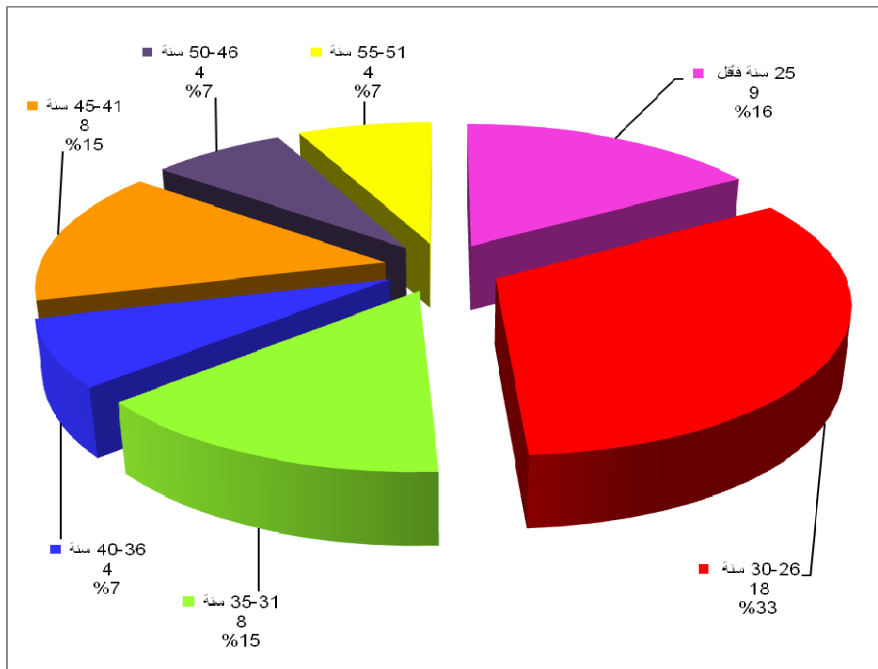
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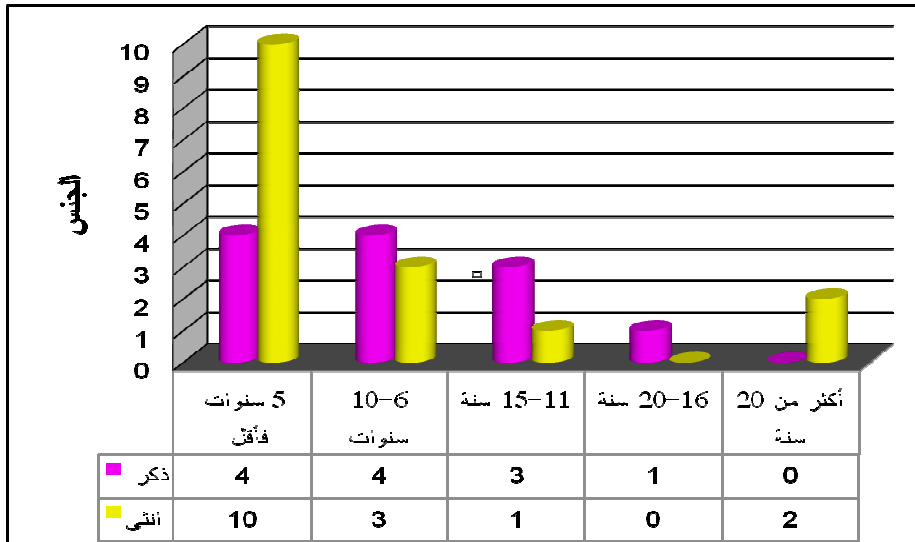
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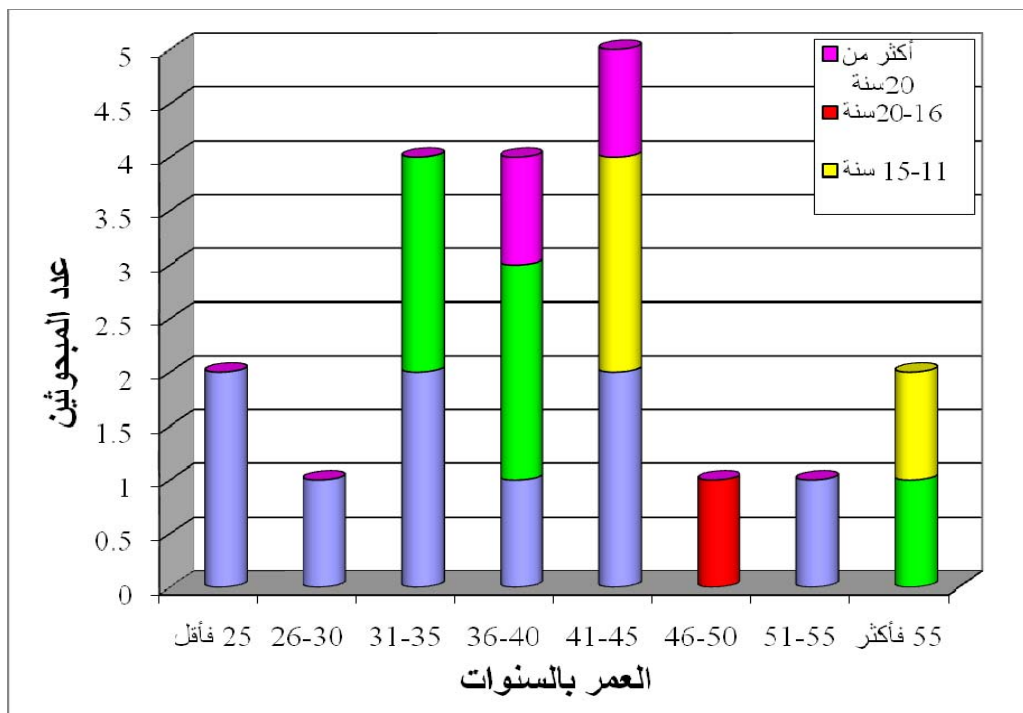
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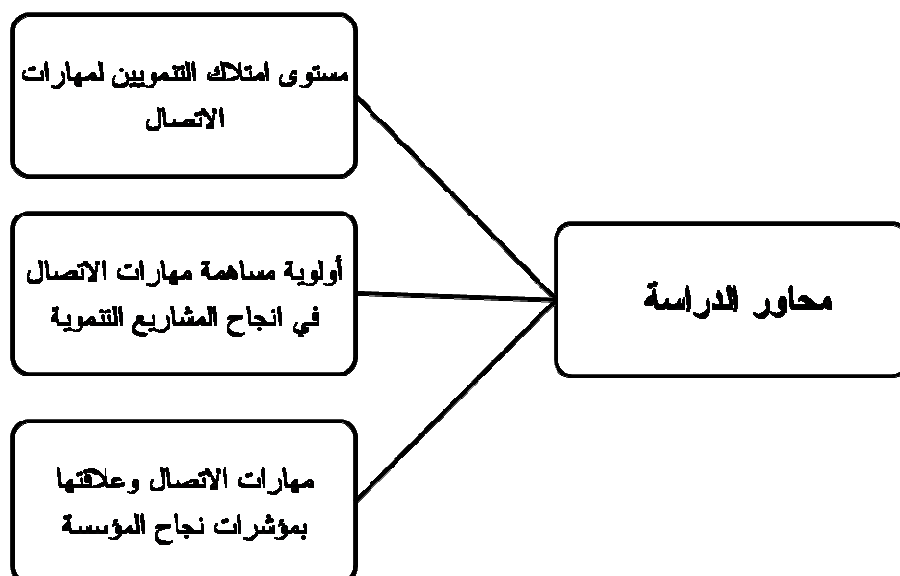
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0.307	2.61		-1
0.176	2.58		-2
0.320	2.54		-3
0.230	2.54		-4
0.262	2.53		-5
0.270	2.41		-6
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0.336	2.87		B1
0.336	2.87		B6
0.417	2.78		B7
0.474	2.67		B2
0.474	2.67		B3
0.571	2.45		B4
0.615	1.75		B5
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0.389	2.82		C3
0.627	2.60		C2
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0.494	2.60		D18
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0.501	2.56		D17
0.538	2.55		D4
0.504	2.53		D1
0.505	2.51		D6
0.536	2.44		D5
0.655	2.40		D14
0.584	2.25		D12
0.678	2.20		D19
0.607	1.96		D13
0.230	2.54		

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0.527	2.62		E2
0.534	2.58		E7
0.603	2.55		E6
0.540	2.51	(...)	E5
0.531	2.40		E4
0.474	2.33		E1
0.567	1.89	(...)	E3
0.270	2.41		

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0.404	2.80	.	D3
0.485	2.64		D5
0.527	2.62	..	D4
0.494	2.60	.	D2
0.503	2.45		D1
0.536	2.44	.	D7
0.534	2.42	.	D8
0.726	2.35	.	D6
0.320	2.54		

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0.404	2.80	()	G1
0.485	2.64	(..) ()	G3
0.561	2.62	()	G4
0.490	2.62		G2
0.498	2.58	()	G5
0.714	2.44		G6
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	F/T		F/T		F/T		F/T		F/T		F/T	
0.939	0.302	0.291	2.846	0.771	0.621	0.622	0.969	0.847	0.477	0.854	0.464	
0.550	0.370	0.926	0.009	0.986	0.000	0.355	0.903	0.046	4.605	0.016	7.031	
0.785	0.357	0.736	0.427	0.821	0.305	0.175	1.870	0.780	0.364	0.089	2.583	
0.050	3.565	0.054	3.468	0.653	0.769	0.104	2.619	0.135	2.324	0.381	1.288	
0.855	0.378	0.920	0.274	0.167	1.850	0.666	0.651	0.931	0.253	0.567	0.801	
0.218	1.670	0.498	0.996	0.514	0.969	0.096	2.382	0.257	1.534	0.090	2.446	5
0.036	3.289	0.046	3.022	0.039	3.190	0.052	2.918	0.204	1.698	0.013	4.399	
0.499	1.010	0.635	0.801	0.059	2.959	0.953	0.323	0.027	3.849	0.077	2.681	
0.227	2.676	0.296	2.103	0.341	1.839	0.601	0.957	0.033	11.651	0.251	2.450	

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	F/T		F/T		F/T		F/T		F/T		F/T	
0.057	2.599	0.332	1.306	0.389	1.196	0.169	1.775	0.653	0.818	1.557	0.231	
0.592	0.295	0.374	0.818	0.729	0.123	0.327	0.998	0.430	0.642	0.189	1.820	
0.878	0.225	0.508	0.797	0.828	0.296	0.928	0.151	0.259	1.427	0.025	3.716	
0.013	3.414	0.209	1.544	0.624	0.820	0.946	0.380	0.862	0.521	0.910	0.448	
0.184	1.703	0.393	1.073	0.666	0.600	0.134	1.965	0.049	2.818	0.939	0.203	
0.505	0.943	0.296	1.312	0.755	0.645	0.755	0.614	0.242	1.444	0.553	0.877	
0.782	0.599	0.709	0.697	0.729	0.666	0.794	0.576	0.103	1.986	0.003	4.574	
0.460	0.561	0.397	0.743	0.119	2.603	0.733	0.119	0.231	1.506	0.147	2.238	() /

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	F/T	
0.289	1.194	
0.297	2.098	
0.829	0.510	
0.361	1.145	
0.091	2.779	
0.681	0.629	5
0.300	1.408	
0.000	14.183	
0.640	0.794	

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0.330	1.311	
0.235	1.478	
0.660	0.539	
0.382	1.161	
0.126	2.016	
0.471	0.995	
0.878	0.467	
0.937	0.006	(/)

5.4

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	10.0 – 9.6	10.0 - 9.1	
	9.5 – 9.1		
	9.0 – 8.6	9.0 – 8.1	
	8.5 – 8.1		
	8.0 – 7.6	8.0- 7.1	
	7.5 – 7.1		
	7.0 – 6.6	7.0 -6.1	
	6.5 – 6.1		
6.0 – 0.0			

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7.8	7.8	7.7		.2
7.7	7.7	7.6		.3
7.4	7.2	7.5		.4
7.7	7.9	7.4		.5
4.1	4.2	3.9		.6
7.1	7.0	7.1		

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8.8	8.4	9.1	B1
8.3	8.6	7.9	B7
8.1	8.5	7.6	B5
7.6	8.1	7.1	B6
6.7	6.5	6.9	B4
5.8	5.6	6.0	B2
6.5	7.1	5.8	B3
7.4	7.5	7.2	

(5.8)

(5.8)

.3.5.4

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(20.4)

:20.4

8.9	9.0	8.8		C1
4.8	1.3	8.3		C3
8.1	8.3	7.8		C4
7.9	8.1	7.6		C5
7.6	8.0	7.1		C2
7.7	7.4	7.9		

(9.0)

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.4.5.4

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			:
8.8	8.1	9.5	D1
7.0	6.4	7.5	D4
6.1	5.3	6.8	D2
4.8	3.1	6.4	D5
5.3	5.1	5.5) (..... D7
5.0	4.4	5.5	D3
6.0	6.6	5.3	D9
4.8	4.7	4.8	D10
3.6	2.7	4.5	D8
4.2	4.2	4.1	D14
4.5	5.2	3.8	D6
3.4	3.3	3.4	D17
2.9	3.2	2.6	D15
2.9	3.2	2.5	D16
3.1	3.9	2.2	D13
1.4	0.8	1.9	D19
2.0	2.5	1.5	D18
1.3	1.4	1.2	D12
0.7	0.7	0.6	D11
4.1	3.9	4.2	

.(21.4)

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(10.0 - 9.1)
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.(173.4)

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.5.5.4

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8.4	8.2	8.6	()	E3
8.3	8.1	8.4		E7
7.8	7.5	8.1	(...)	E5
8.0	8.2	7.7		E1
7.7	7.6	7.7		E4
7.6	7.9	7.3		E2
6.9	6.6	7.1		E6
7.8	7.7	7.8		

.6.5.4

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.(23.4)

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(9.1)

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9.1	9.3	8.8		H1
7.9	7.3	8.4		H5
7.7	7.6	7.8		H2
7.8	7.8	7.7		H6
7.5	7.6	7.3		H7
7.2	7.1	7.3		H4
6.8	6.4	7.2		H8
7.4	7.6	7.1		H3
7.7	7.6	7.7		

.7.5.4

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.(20.4)

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			:	
8.9	8.7	9.0		G2
8.2	7.8	8.5	()	G1
8.1	8.3	7.8		G6
7.7	7.7	7.7	()	G5
7.7	7.8	7.5	() (.....)	G3
7.5	7.6	7.3	()	G4
7.6	7.9	7.2		

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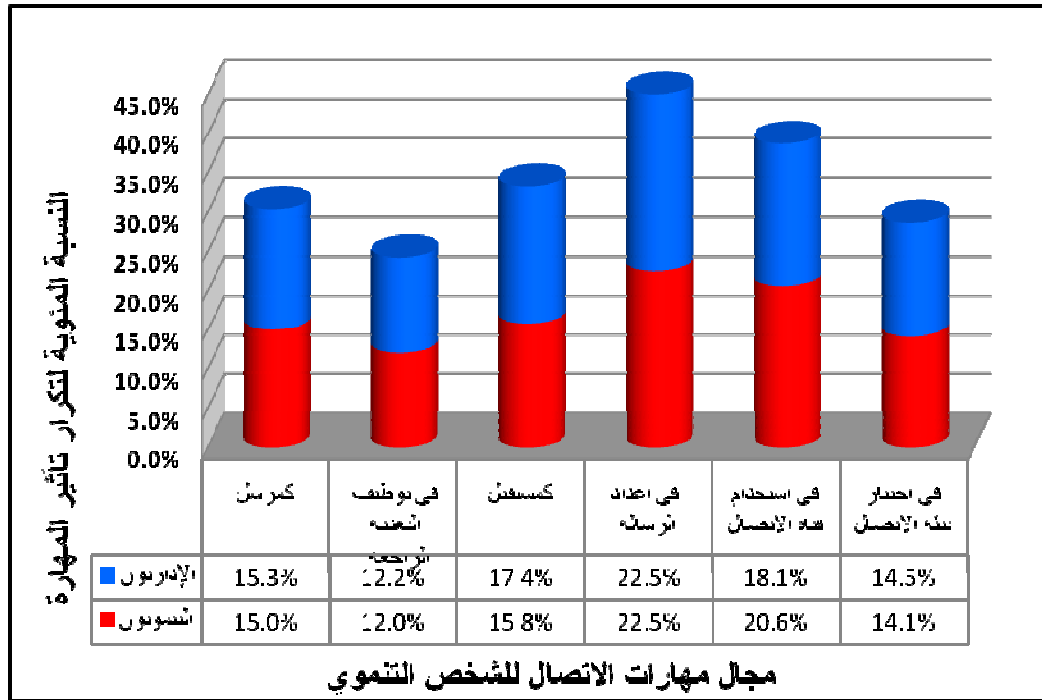
(17.4)

(8.4)

(9.1)

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6.4



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(2.4)

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94	100			H1
100	56			B1
88	54			D1
100	48			C1
87	48		()	E3
86	48			G6
83	48			H5
79	48))	G1

: - 25.4

78	48			H6
92	47			B7
83	47			G2
87	46			C4
84	46		(....)	E5
82	46			C3
67	46			C2
83	45		()	G5
80	45			E7
65	45			D4
100	44			E1
82	43			B3
68	43			C5
87	42			E2
76	42			H4
70	42) () (.....	G3
79	41		(...)	G4
68	41			H3
69	40			H7
34	40			D5
83	39			E4
83	39			H2

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62	39			B5
70	38			B4
56	38			E6
53	37			H8
76	35			B6
49	34) (.....	D7
59	32			D9
33	30			D2
28	30			B2
32	29			D3
44	26			D6
44	25			D10
26	25			D8
53	19			D14
51	15			D13
29	13			D17
36	12			D15
13	12			D19
18	10			D12
34	9			D16
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100	56		B1
92	47		B7
82	43		B3
62	39		B5
70	38		B4
76	35		B6
28	30		B2

.2.6.4

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(27.4)

:27.4

100	48		C1
87	46		C4
82	46		C3
68	43		C5
67	46		C2

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.3.6.4

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(28.4)

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87	48	()	E3
84	46	(.....)	E5
80	45		E7
100	44		E1
87	42		E2
83	39		E4
56	38		E6

%12.6

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.4.6.4

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88	54		D1
65	45		D4
34	40		D5
49	34))	D7
59	32		D9
33	30		D2
32	29		D3
44	26		D6
44	25		D10
26	25		D8
53	19		D14
51	15		D13
29	13		D17
36	12		D15
13	12		D19
18	10		D12
34	9		D16
28	8		D18
10	4		D11

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94	100		H1
83	48		H5
78	48		H6
76	42		H4
68	41		H3
69	40		H7
83	39		H2
53	37		H8

%25.3

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(31.4)

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86	48		G6
79	48	()	G1
83	47		G2
83	45	()	G5
70	42	(....) ()	G3
79	41	(...)	G4

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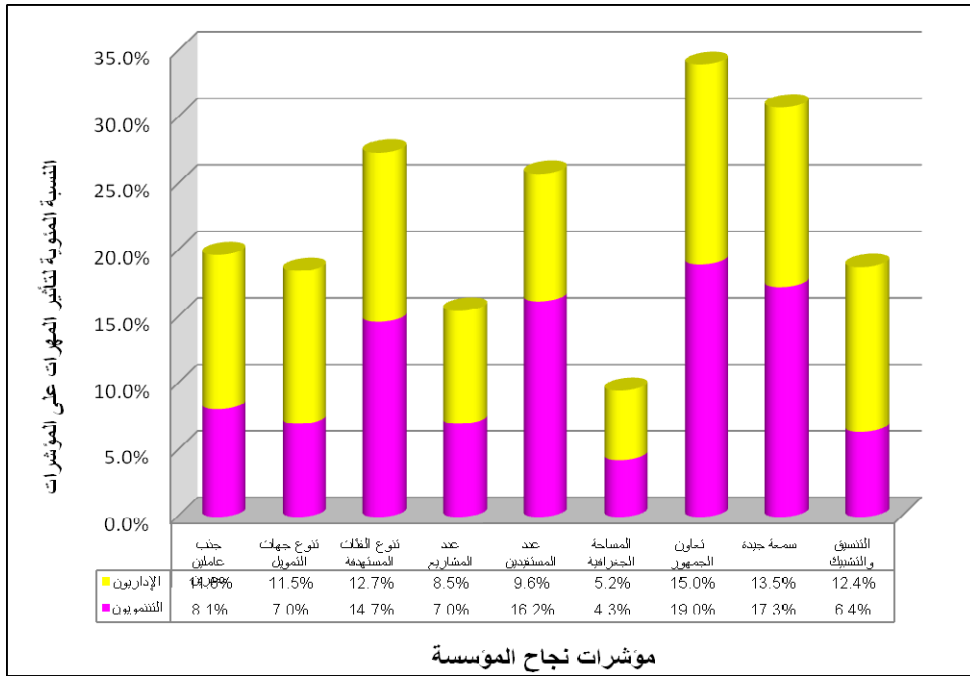
(4.2)

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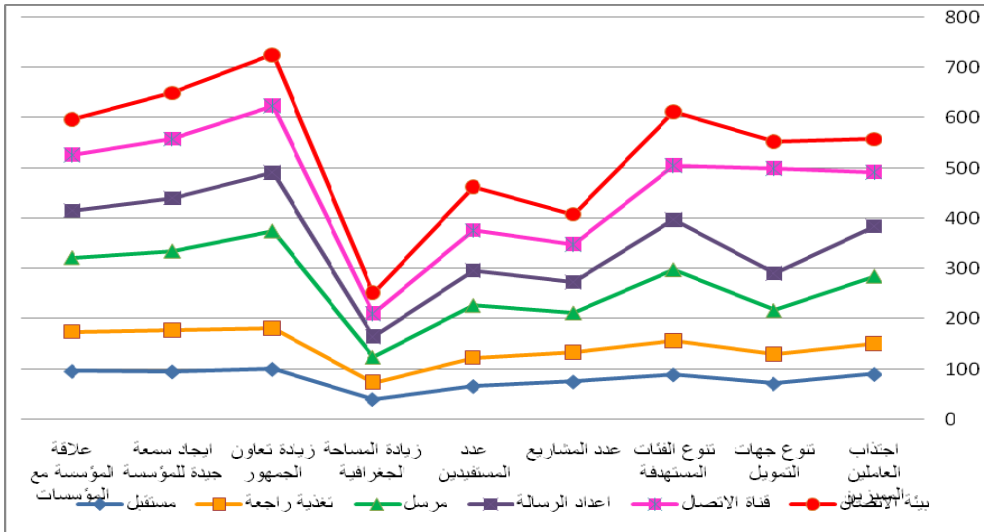
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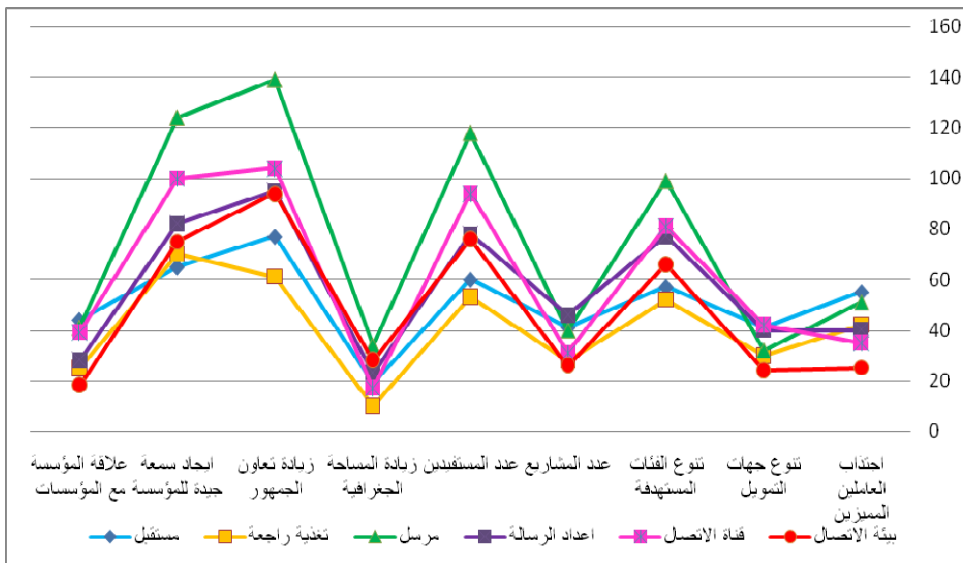
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- www.ngoce.org 2004/3/14
- (11) : (2002)
- www.ngoce.org 2009/4/1
- (2000) () .
- (2005) .
- (2008)
- (2002)
- (2008) .

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- Manalack , S.(2002) You can communicate secrets for personal success, Pearson education Australia
- Thill, J., Bovee, C., Schatzman, B. (2002): business communication today, 7th edition, Prentice Hall
- Bowden, J (2004): writing a reports, 7th , howtobooks ,British library.
- Berlo, D.(1960): The Process of Communication, Holt, Rinehart and Winston, Library of Congress Catalog, United States of America.
- Araz S, Matulac M, Muhammad A (2006): Effective Communication for Strategic Sustainable Development Education: The Hook and Ladder Technique, School of Engineering, Blekinge Institute of Technology Karlskrona, Sweden

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%10.7	3	
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%3.6	1	
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%21.4	6	
%28.6	8	/
%14.3	4	
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%10.7	3	
%14.3	4	
%14.3	4	
%3.6	1	
%3.8	1	
%11.5	3	
%7.7	2	
%3.8	1	
%7.7	2	
%7.7	2	
%3.8	1	
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%7.7	2	
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%3.8	1	

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%3.8	1	2
%7.7	2	3
%3.8	1	5
%11.5	3	7
%26.9	7	10
%3.8	1	15
%3.8	1	25
%3.8	1	30
%7.7	2	40
%3.8	1	65

:() : -3.2

%7.7	2	
%3.8	1	
%15.4	4	
%11.5	3	
%3.8	1	
%3.8	1	
%7.7	2	
%7.7	2	
%15.4	4	/
%7.7	2	

:() : -3.2

%25	5	10 -1
%30	6	20-11
%0	0	30-21
%0	0	40-31
%5	1	50 -41
%5	1	60-51
%5	1	70 -61
%30	6	80

:() : -3.2

%75	15	10 -1
%10	2	20-11
%0	0	30-21
%5	1	40-31
%5	1	50 -41
%0	0	60-51
%0	0	70 -61
%5	1	80

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12.7	7	
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10.9	6	
1.8	1	
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1.8	1	
7.3	4	
1.8	1	
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%4	2	
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%7	4	
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%9	5	
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%15	8	
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%4	2	
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%5	3	

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9.1	5	
10.9	6	
20.0	11	
14.5	8	
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				C13
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				C15
				C16
				C17
				C18
				C19
				C20
				C21
				C22
				C23
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				C27
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				C29
			()	C30
				C31
			(...)	C32
				C33
				C34
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			:	
				C36
				C37
				C38
				C39
				C40
				C41
			(.....) ()	C42
			()	C43
			()	C44
				C45
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			()	C47
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0.336	2.87			B1
0.336	2.87			B6
0.356	2.85			D3
0.389	2.82			C3
0.389	2.82			D2
0.404	2.80			H3
0.404	2.80		()	G1
0.417	2.78			B7
0.440	2.75			D8
0.440	2.75			D10
0.449	2.73			D16
0.474	2.67			B2
0.474	2.67			B3
0.474	2.67			D9
0.485	2.64			H5
0.485	2.64		) ( ) (.....	G3
0.561	2.62		(...)	G4
0.527	2.62			E2
0.527	2.62			H4
0.490	2.62			G2
0.627	2.60			C2
0.494	2.60		()	D7
0.494	2.60			D18

0.494	2.60			H2
0.534	2.58			E7
0.498	2.58		()	G5
0.536	2.56			C4
0.501	2.56			D11
0.501	2.56			D15
0.501	2.56			D17
0.603	2.55			E6
0.538	2.55			D4
0.504	2.53			D1
0.540	2.51		(...)	E5
0.505	2.51			D6
0.571	2.45			B4
0.503	2.45			C1
0.503	2.45			H1
0.714	2.44			G6
0.536	2.44			D5
0.536	2.44			H7
0.534	2.42			H8
0.655	2.40			D14
0.531	2.40			E4
0.726	2.35			H6
0.474	2.33			E1
0.584	2.25			D12
0.599	2.22			C5

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0.678	2.20			D19
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0.567	1.89)	E3
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0.615	1.75			B5

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2.9	56	3.0	100			B1
2.5	48	3.0	100			C1
2.3	44	3.0	100			E1
5.2	100	2.8	94			H1
2.4	47	2.8	92			B7
2.8	54	2.6	88			D1
2.5	48	2.6	87		()	E3
2.5	48	2.6	86			G6
2.4	46	2.6	87			C4
2.2	42	2.6	87			E2
2.5	48	2.5	83			H5
2.4	47	2.5	83			G2
2.4	46	2.5	84		(...)	E5

					:	
2.4	46	2.5	82			C3
2.3	45	2.5	83		()	G5
2.2	43	2.5	82			B3
2.0	39	2.5	83			E4
2.0	39	2.5	83			H2
2.5	48	2.4	79		()	G1
2.3	45	2.4	80			E7
2.1	41	2.4	79		(...)	G4
2.5	48	2.3	78			H6
2.2	42	2.3	76			H4
1.8	35	2.3	76			B6
2.2	42	2.1	70		(.....) ()	G3
2.1	40	2.1	69			H7
2.0	38	2.1	70			B4
2.4	46	2.0	67			C2

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2.3	45	2.0	65			D4
2.2	43	2.0	68			C5
2.1	41	2.0	68			H3
2.0	39	1.9	62			B5
1.7	32	1.8	59			D9
2.0	38	1.7	56			E6
1.9	37	1.6	53			H8
1.0	19	1.6	53			D14
1.8	34	1.5	49		(.....)	D7
0.8	15	1.5	51			D13
1.3	26	1.3	44			D6
1.3	25	1.3	44			D10
0.6	12	1.1	36			D15
2.1	40	1.0	34			D5
1.6	30	1.0	33			D2

:

1.5	29	1.0	32			D3
0.5	9	1.0	34			D16
0.7	13	0.9	29			D17
1.6	30	0.8	28			B2
1.3	25	0.8	26			D8
0.4	8	0.8	28			D18
0.5	10	0.5	18			D12
0.6	12	0.4	13			D19
0.2	4	0.3	10			D11
100	1927	100	3321			

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:3.4

7.4	5.3	9.5			C5
8.8	8.4	9.1			B1
8.9	8.7	9.0			B4
9.1	9.3	8.8			B5
8.5	8.1	8.8			D4
8.9	9	8.8			H5
8.1	7.6	8.6			E4
8.2	7.8	8.5		()	B3
7.9	7.3	8.4			B6
4.8	1.3	8.3			D19
7.4	6.6	8.1			D7
8.3	8.6	7.9			C4
7.7	7.6	7.8			D2
8.1	8.3	7.8			D5

7.8	7.9	7.7			D3
7.7	7.7	7.7		()	D15
7.6	7.5	7.7		(...)	E2
7.9	8.1	7.6			C2
8.1	8.5	7.6			C3
7.7	7.8	7.5		(.....) ()	B7
5.3	3.1	7.5			D9
7.5	7.6	7.3			D10
7.8	8.2	7.3		(..)	E3
7.5	7.6	7.3		()	H4
7.2	7.1	7.3			H7
6.8	6.4	7.2			C1
7.4	7.6	7.1			D11
7.6	8	7.1			D13
8.1	8.3	7.8			G5
7.8	7.8	7.7			B2

7.6	8.1	7.1			D16
7.6	8.1	7.1			E7
6.7	6.5	6.9			D14
5.6	4.4	6.8			D17
5.8	5.2	6.4			D18
5.8	5.6	6			H1
6.5	7.1	5.8			H6
6.0	6.4	5.5			D1
4.1	2.7	5.5			H3
5.0	4.7	5.3			D6
2.8	0.7	4.8			E5
5.6	6.6	4.5			G4
3.7	3.2	4.1			E6
4.5	5.1	3.8		(.....)	D12

3.0	2.5	3.4			H2
2.9	3.2	2.6			G1
2.9	3.3	2.5			G6
3.2	4.2	2.2			G3
5.1	8.2	1.9			E1
1.2	0.8	1.5			D8
2.6	3.9	1.2			G2
1.0	1.4	0.6			H8

115	.....	1.3
116	.....	2.3
118	.....	3.3
120	....	4.3
122	.....	5.3
126		6.3
	
134		7.3
	
142	.....	1.4
		2.4
145	.....	3.4
149	.....

13	.....	1.2
21	.....	2.2
22	.....	3.2
25	.....	4.2
27	.....	5.2
44	.....	1.3
51	.....	2.3
52	.....	3.3
54	.	4.3
55	.....	5.3
55	.....	6.3
57	.....	1.4
		2.4
91	.....
102		3.4
	
103		4.4
	
103		5.4
	

42	.....	1.3
		2.3
43	.....
	)	3.3
46(
47	.....	4.3
48	.....( )	5.3
52	.....	6.3
53	.....	7.3
56	.....	8.3
		1.4
58	.....
59	...	2.4
		3.4
60	.....
		4.4
61	.....
62	.....	5.4
		6.4
63	.....
		7.4
64	.....
		8.4
65	.....
		9.4
67	.....

		10.4
68	.....	11.4
69	.....	12.4
70	.....	13.4
73	.....	14.4
74	.....	15.4
75	.....	16.4
75	.....	17.4
76	.....	18.4
77	.....	19.4
79	.....	20.4
80	.....	21.4
82	22.4
85	23.4
87	24.4
88	
91	-25.4
92	-25.4

93	-25.4 26.4
95	27.4
96	28.4
97	29.4
98	30.4
100	31.4
101	

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1 :

1	1.1
1	2.1
3	3.1
4	4.1
4	5.1
5	6.1
6	7.1
8	8.1

9 :

9	1.2
11	2.2
11	1.2.2
12	2.2.2

14	3.2.2
16	4.2.2
17	1.4.2.2
18	2.4.2.2
19	.....	3.4.2.2
20	.....	4.4.2.2
22	.....	5.2.2
23	.....	6.2.2
25	.....	7.2.2
25	.....	1.7.2.2
27	.....	2.7.2.2
28	.....	3.7.2.2
28	.....	4.7.2.2
29	.....	5.7.2.2
32	.....	8.2.2
33	.....	9.2.2
36	.....	3.2
41 :	
41	.....	1.3
41	.....	2.3
44	.....	3.3
45	.....	4.3
45	.....	5.3
46	.....	6.3
46	.....	7.3
47	.....	8.3
49	.....	9.3
50	.....	10.3

50	.....	1.10.3
		2.10.3
53	.....	1.2.10.
53	.....	3
54	.....	2.2.10.
		3
57	.....	:
58	.....	1.4
60	.....	2.4
61	.....	3.4
62	.....	1.3.4
		2.3.4
63	.....	3.3.4
65	.....
66	.....	4.3.4
		5.3.4
66	.....	6.3.4
69	.....	7.3.4
70	.....
72	.....	4.4
76	.....	5.4
		1.5.4
76	.....	2.5.4
78	.....

		3.5.4
80	.....	4.5.4
81	.....	5.5.4
84	.....	6.5.4
86	.....	7.5.4
87	.....	6.4
90	.....	1.6.4
95	.....	2.6.4
96	.....	3.6.4
96	.....	4.6.4
97	.....	5.6.4
99	.....	6.6.4
100	.....
101	.....	7.4
102	.....	8.4
103	.....	9.4
107	.....	:

107	.....	1.5
109	.....	2.5
111	.....
153	.....
154	.....
155	.....
158	.....