



哈尔滨远东理工学院
Harbin Far East Institute of Technology



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1.1	1
1.2	2
1.3	3
1.4	3
2	5
2.1	5
2.2	5
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2.5	6
2.5.1	7
2.5.2	7
2.5.3	7
3	8
3.1	8
3.1.1	8
3.1.2	9
3.1.3	9
3.1.4	9
3.1.5	10
3.1.6	10
3.1.7	11
3.2	11
3.2.1	11
3.2.2	11
3.2.3	.....	11
3.2.4	.....	12
3.2.5	.....	12
3.2.6	.....	12
3.2.7	.....	13
4	.....	13
4.1	.....	13
4.2	.....	14
4.2.1	.....	14

4.2.2	.....	14
4.2.3	.....	14
4.2.4	.....	14
4.3	.....	15
4.3.1	.....	15
4.3.2	.....	16
4.3.3	.....	16
4.4	.....	16
4.4.1	.....	16
4.4.2	.....	17
4.4.3	.....	17
4.4.4	.....	17
4.4.5	.....	18
4.4.6	.....	18
5	.....	19
5.1	.....	19
5.2	19
5.3	20
5.4	21
5.5	21
5.5.1	21
5.5.2	22
5.5.3	22
5.5.4	22
5.6	22
5.7	23
6	24
6.1	24
6.2	24
6.2.1	24
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6.2.3	24
6.2.4	26
6.2.5	26
7	27
7.1	27

7.2	27
7.3	28
8	28
8.1	28
8.1.1	28
8.1.2	28
8.2	29
8.2.1	4... .	4... .

19	49
20	52
21	55
22	60

2003		2004		1994	
2012				"	"
		53			25.2
10	15	28			
		9163			
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1		080901		57.14%
2		080701		
3		080902		
4		120103		
5		080204		
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7		080601		
8		081001		
9		080208		
10		120602		
11		080803T		
12		120105		
13		081006T		
14		080910T		
15		120701		
16		080714T		3.57%
17		120202		10.71%
18		120203K		
19		120204		

20		130502		10.71%
21		130503		
22		130504		
23		050209		17.85%
24		050207		
25		050101		
26		050201		
27		050202		
28		020401		3.57%

1% 9163 24 48%
11% 25% 5% 10%

2021

22

9

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92.06%

100% 2021

2021

1-2 1-3

1-2 2021

1		73		463		450	
2		0	15	0	423	0	438.7
3		50	0	432		428	
4		0	40	0	432	0	462.5
5		0	45	0	367	0	376.4
6		0	20	0	412	0	426.7
7		22	52	466	400	470.5	419.1
8		291	905	354	280	371.1	302.1
9		0	10	0	397	0	431

10		0	14	0	434	0	464.3
11		49		22		500	
12		23		24		335	
13		0		50		0	
14		17	53	456	336	502.9	400.4
15		17	26	392	301	408.9	301.6
16		0	15	0	345	0	360.1
17		20	0	393	0	399.3	0
18		0	40	0	341	0	359.8
19		112	45			481.5	443.5
20		54	5	350	302	353.5	302.7
21			5		302		292.4

2021

21

1-3 2021

1				140	138	133
2				230	252	230
3				60	61	61
4				60	76	72
5				236	219	210
6				225	231	225
7				120	96	93
8				80	40	39
9				90	96	92
10	()			50	51	40
11				60	88	88
12				220	256	234
13				180	165	157
14				90	35	33
15				108	59	57

16			240	143	130
17			180	302	287
			2369	2308	2181

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485 18.89 1 272
56% 211 61 350
72% 318 32
311 64% 63
20% 2

2020-2021 485 272
56% 350 72% 35
140 28.9% 2-1
2-1

										35	36-45	46-55	56
	485	60	170	144	80	33	315	116	22	140	204	75	66
%		12.6	35	30	16.5	6.8	65	23.9	4.3	28.9	42	15.5	13.6

2020-2021
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813 3237
25.1%

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		1,556.49
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		52.52
		56.77
		48.28
		1.06
		219.58

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25.2
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 89 97 264 264 56.8
 CNKI 5
 3.019 5.505 464.50
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		89()
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485

18.89:1

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72% 35

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48.80%

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2020-2021

100%

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					2020-2021
6788					
3					
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	328				
4					
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2021	4	10			
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2					
3		2020		"	"
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6788	55	923	328	230
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95%

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6788

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2201

98.48%

2167

98.48% 2020

12

6-1

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2021

2201	2167	98.48	2167	98.48	34	1.5%	0	0	12	0.5%

" 1122X"

2020

2017		2175		89.56%	1	0.05%	109	5.01%
1838	84.51%		227	10.44%				
2018		2249		88.71%	1	0.04%	132	5.87%
1862	82.79%		254	11.29%				
2019			2257	86.84%	0		57	2.53%
1903	84.32%		297	13.16%				
2020			2343	83.53%	5	0.21%		138
5.89%	1814	77.42%		386	16.47%			

" "

2021 2167 82.73% 1657
 75.1% 54 2.54% 20 0.91%
 32 1.45% 3.83
 5.07% 0 6-2

6-2 2021

		718	1104
		32	13
		4	5
		614	1043
		19	13
		23	11
		7	13
		0	0
		12	1
		7	5

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2021

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2021 72

6-3

6-4

6-3 2020

	65	7	0
	90.2%	9.7%	0

6-4 2020

			%
1		66	86.8%
2		70	92.1%
3		65	85.5%
4		66	86.8%
5		66	86.8%
6		67	88.2%
7		63	82.9%
8		25	32.9%
9		42	55.3%
10		55	72.4%

2020

89.13% 2021 89.56%

2021 718 61.90%

79.8%

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9163	9163	100%

2

			%
		485	18.89 1
		65	22
		39	60
		26	40
		60	12.6
		170	35
		144	30
		80	16.5
		33	6.8
		315	65
		116	23.9
		22	4.3
	35	140	28.9
	36-45	204	42
	46-55	75	15.5
	56	66	13.6

3

		/	/	
1		9	249	28 1
2		18	539	30 1
3		9	256	28 1
4		20	611	31 1
5		5	72	14 1

6		27	771	29 1
7		16	377	24 1
8		20	372	19 1
9		7	176	25 1
10		7	145	21 1
11		14	288	21 1
12		14	396	28 1
13		13	375	29 1
14		5	88	18 1
15		25	718	29 1
16		13	379	29 1
17		12	313	26 1
18		36	1028	29 1
19		11	171	16 1
20		24	901	38 1
21		18	334	19 1
22		20	317	16 1
23		25	286	11 1

4

28	21	2	5

5

9163	485	18.89	1
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6

			%	/
9163	15,849.66	5,198.00	48.80	17297.46

7

9163	89	97.12	56.8	5

8

	17.0076	18.56
	2.1831	2.38

9

	1,556.49
	1,181.77
	76.85
	35.38
	0.94
	17.63
	19.07
	477.15
	176.54
	52.52
	56.77
48.28	

		1.06
		219.58

10

		813
		3237
	146	465
	172	608
	78	170
	134	383
	90	240
	106	256
	12	230
	4	73
	12	410
	12	208
	41	41
	4	194
	2	16

11

				%				%	
	2345	181	47	25.97	20	8	6	6	11.05
	2316	180.5	47	26.04	20	8	6	6	11.08
	2311	179.5	47	26.18	20	8	6	6	11.14
	2406	182.5	46	25.21	20	8	6	6	10.96

	2386	179	44	24.58	20	8	6	6	11.17
	2347	181	47	25.97	26	8	6	6+6	14.36
	2347	181	47	25.97	26	8	6	6+6	14.36
	2346	180	46	25.56	26	8	6	6+6	14.44
	2347	182	50	27.47	24	8	6	4+6	13.19
	2306	180	49	27.22	24	8	6	4+6	13.33
	2367	184	47	25.54	24	8	6	4+6	13.04
	2344	182	46	25.27	24	8	6	4+6	13.19
	2342	182	46	25.27	24	8	6	4+6	13.19
	2269	171	44	25.73	32	8	0	24	18.71
	2268	170	40	23.53	32	8	0	24	18.82
	2315	178	41	23.03	32	8	0	24	18.60
	2277	171	40	23.39	31.5	8	0	23.5	18.42
	2380	173	51	29.48	24	8	6	4+6	13.87
	2384	170	51	30	24	8	6	4+6	14.12
	2392	170	51	30	24	8	6	4+6	14.12
	2700	180	36	20.9	24	8	6	4+6	13.33
	2628	181	36	19.89	24	8	6	4+6	13.26
	2401	177	37	20.9	24	8	6	4+6	13.64
	2648	176	39	22.16	22	8	6	4+4	12.50

12

50	39	78%	813	82	10.7%
				Oracle	
				Python	
				PHP	

Android

II

VBSE

				II
				II
				I
				II
				4
				II
				Oracle
				Python
				PHP

13

		A203		90
1330118		C201		90
	PLC	300		139
		2		130.2
1330117		405		75

	505	86
	507	86
	509	75
	503	75
	303	106
	500	130
	305	130
	407	86
	107	116
	207 1	108
	103	86
	102	175
	5	70.18
	3	92.8
	606	116
	207 2	108
	208	116
	206	116
	4-5	40
	1	80
	8	69.31
	105	86
	2	120
	6	69.31
	7	123.72
	502	115
	402	115
	205	108
	20	200
	602	116
	609	75

		506		112
		603		82
		605		86
		607		86
		600		134
		302		116
		1		284.8
		4		130.24
	EDA	435 2		93.44
		216 2		79.1
		613		104.3
		330		132.48
	I	422		52.83
	II	439		57.26
		412		43.2
		217 2		103.66
		3		117
		1		1200
		3		1200
		2		1200
		4		1200
	I	432 1		71.54
	II	432 2		71.54
	III	128		65
		437		103.38
		432 3		71.54
		435 1		93.44
		216 1		79.1
		620		74.9
		302		132.48
		615		53.2

		217 1		103.66
1330115	ERP	B107		133
	VBSE	207		600
		B402		66
		A114		103
		A119		120
		207		80
		210		80
1330125		B201		203.7
		B209		203.7
		B301		203.7
		B305		203.7
		B406		100.8
		B408		100.8
		B409		203.7
		B410		203.7
		201		102.2
		209		103.93
		211		102.05
		222		138.58
		205		103
	-	C308		90
	-	C310		90
	-	C404		90
	-	C406		90
	-	C408		90
	-	A201		100
	-	A301		100
1330114	BIM	202		139.16
		405		57.4
		103		57.4

		110		81.2
		102		264.72
		106		116.44
1330113		7		152
		7		132
		616		26
	1	402		64
	2	420		86
1330116	1	9		101.6
	2	10		101.6
	3	11		101.6
		12		100
		13		95
		14		95
		15		90
		16		95
		17		95
		18		97
		19		100
		20		100
		21		98
	22		95	
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14

	2021			3
	2019			0
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	2018			0
	2021			0
	2021			57
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	2017			11
	2018			6
	2018			8
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	2019			1
	2019			0

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	2019			4
	2019			2
	2019			1
	2021			79
	2017			13
	2018			0
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	2018	30
M	2017	10
	2021	10
	2020	0
	2020	0
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	2018			118
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	2019			9
	2017			16
	2018			3
	2018			0

	2019			1
	2019			0
	2019			5
	2019			1
	2019			1
	2021			88
	2019			0
	2019			50
	2019			49
	2019			0
	2019			50
				2487

15

2201					
	2167	98.48%	2167	98.48%	82.73%

16 2020

	72		65	7	0
			90.2%	9.7%	0

17

	208	173
	36	35
	35	18
	184	168
	52	40
	91	80

	30	18
	130	115
	114	62
	114	97
	347	286
	125	114
	103	91
	38	29
	55	49
	162	127
	69	64
	59	47
	82	81
	126	85

18

050101		687	109	584	93
0502		341	67	263	66
080601		735	190	623	164
080208		218	56	194	52
120602		190	47	169	45
080701		226	52	188	47
080803T		524	127	434	109
120203K		1144	339	1033	304
020401		444	127	404	119
120202		344	69	283	51
120204		748	206	700	202
120103		290	64	249	49
081001		348	103	296	92
120105		310	0	259	0
130503		389	105	339	86

130502		338	58	303	53
130504		165	36	143	32
0809		821	189	692	174
0802		762	231	666	210

19

1		
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3		Web iPad
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	PLC	PLC	300	137	24
	ARM		435-1	137	54
			606	131	24
	ARM		435-1	137	60
	PLC	PLC	300	137	60
			502	135	32
			206	135	32
			103	135	18
			500	135	40
			302	137	30
			412	128	20
				138	30
			303	135	32
			606	135	16
			613	135	32
			305	134	32
			302	55	10
	EDA	EDA	435-2	55	8
			217-2	55	8
			216-2	55	8
			502	67	8
			206	67	8
			432-3	67	8
	ARM		435-1	55	18
			216-1	57	18
			217-1	57	8

			620	57	8
			615	66	8
			613	66	8
			305	59	8
			303	66	8
	ARM		435- 1	28	8
			432- 3	54	8
			502	247	48
			303	54	8
			432- 3	172	24
	EDA	EDA	435- 2	167	10
			435- 1	167	10
			503	45	16
			505	41	16
			507	34	16
			509	47	16
			206	167	8
			502	167	8
	PLC	PLC	300	167	8
			302	167	4
			305	167	4
	A		606	104	2
			205	104	4
			407	104	6
	PLC	PLC	300	104	8
			103	109	4

			305	109	4
			503	36	16
			505	33	16
			507	35	16
	A		606	109	4
	A		606	95	2
			205	95	4
			407	95	6
	PLC	PLC	300	95	8
			103	72	4
			305	72	4
			303	95	6
			206	95	8
			502	72	4
	A		606	72	4
			45	57	15
			606	57	15
	-1		305	55	4
	-1		123-1	55	6
			000000	55	4
			123-2	55	15
	-2		123-1	57	30
			402	48	8
			305	48	6
			606	48	8
			205	48	8
			102	94	48
			103	94	72
			110	94	12
			106	72	16

			103	94	24
			102	104	48
			103	104	72
			110	104	12
			106	91	16
			103	104	24
			102	83	24
			103	83	40
			106	75	16
			103	83	16

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	1101015	PLC	PLC	300
	1101018	ARM		435-1
	D4113123			606
	1104003			206
	1101003			502
	1101004			103
	1104008			302
	D4133119			000000
	D4133121			000000
	1101019			000000
	D4133128			000000
	1101006			303
	1101004			613
	1101007			606
1104002			305	
	1104008			302

	1104009	EDA	EDA	435-2
	1104020			217-2
	1101112			216-2
	1101003			502
	1104003			206
	1104004			432-3
	1104021	ARM		435-1
	1104023			216-1
	1104024			217-1
	1104126			620
	1104005			615
	1104004			613
	1104002			305
	1104007			303
	1102003			502
	D1132158			000000
	D1132157			209
	D1132158	Android		209
	1102207	Python+Hadoop		437
	1102208			211
	1102209	Linux		209
	1102202			437
	1102203			222
	1102210			437
	1103246			000000
	1102204			432
	1102205			000000
	1102206			303

	1102201		II	439
	1103241			222 211
	1103247			222 211
	1103237		II	439
	1103243	Android		437 222
	1103245	PHP		217 209
	1103239			437 222
	1103238			211 222
	1103239			437 217
	1103245	JavaEE		437 217
	1103246			000000
	1103242			432
	1103240			000000
	1103241			222 217
	1103242			432
		B4142302	EDA	EDA	500
B4133302				402
1203002				206
1203003				502
B4133103		PLC	PLC	300
B4132108				302
B1104002				305
	B2132110	A		606
	B3132112			205
	B2132113			407

	B3133226	PLC	PLC	300
	B2132106			103
	B2132104			305
	B2132108	A		606
	B2132110	A		606
	B3132112			205
	B2132113			407
	B3133226	PLC	PLC	300
	B2132106			103
	B2132104			305
	B3133228			303
	B2132105			206
	B2132105			502
	B2132108	A		606
	B5143111			45
	B6132103			606
	B6114317	-1		305
	B6114318	-1		123-1
	B5133102			102
	B5113105			123-2
	B6114336	-2		123-1
	1302003			102
	1302006			103
	1302007			110
	A3132110			106
	1302002			103
	1301003			102
	1301006			103
	1301007			110
	A5132110			106

	1301002			103
	1303005			102
	1303008			103
	A4113114			106
	1303006			103
	G1143132			000000
	G1143136			000000
	2104211			A114
	G3133203	Excel		000000
	G1132130	ERP	ERP	B107
	2104117	ERP	ERP	B107
	2104203			A114
	2104001			A114
	G3143124	VBSE	VBSE	207
	G1142130	ERP	ERP	B107
	G3133203	Excel		000000
	2104202			A119
	G1143136			000000
	2104001			A114
	A1142170	VBSE	VBSE	207
	A1142140			000000
	G1142130	ERP	ERP	B107
	G2142171			000000
	G2143130			000000
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	2103209			000000
	G2143173			000000
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	G2142171		ERP	B107

	G2143157			000000
	G2143158			000000
	G2143164			000000
	2103202			000000
	2104117	ERP	ERP	B107

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		， “ ”
		“ ” “ ”
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		BIM “ ”
		<p>1. “ ”</p> <p>2. “ ”</p> <p>3. “ ”</p> <p>4.</p> <p>5.</p>
		<p>1. “ 2025” “ ”</p> <p>2.</p>

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