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# 目 录

第一部分 学校概况及教学管理文件

第二部分 本科专业教学计划

第三部分 本科专业教学计划

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# 第一部分

学校概况及教学管理文件

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# 第二部分

本科专业教学计划（公共教学部分）

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## 3.

专业名称	总学分	理论学分		实践学分		实践学分 比例
		必修	选修	实验	实习	
	187	82.1	28	28.4	48.5	41.12%
	243	97	45.5	46.5	54	41.36%
	183	79.5	36	19	48.5	36.89%
	178	78.5	33.5	19	47	37.08%
	184.5	83	36	17.5	48	35.50%
	185	82.4	32	23.6	47	38.16%
	186	82.7	32	24.3	47	38.33%
	183	83.75	30	24.75	44.5	37.84%
	186.5	79.5	28.1	33.4	45.5	42.31%
	195.5	86	41	17.5	51	35.04%
	179	72.5	38	17	46.5	35.47%
	180	80.5	31	22.5	46	38.00%
	184	81	29	30	44	40.22%
	187	82	29	30	46	40.64%
	181	83.5	33	20.5	44	35.64%
	181.5	84	33	20.5	44	35.54%
	195	69.5	29.5	45.5	50.5	49.23%
	187	81.5	31.5	26.5	47.5	39.57%
	187	84.5	31	23	48.5	38.24%
	180	83	26	26	45	39.44%
	176	56	26	50	44	53.41%
	185.5	86.4	29.2	20.9	49	37.69%
	187.5	88	31.9	19.6	48	36.05%
	190	88.4	31.5	21.1	49	36.89%
	183.5	78.5	26	32	47	43.05%
	184.5	73	26	36.5	49	46.34%
	186	81.125	30.5	33.375	41	39.99%
	190.5	69	27.5	45	49	49.34%
	179.5	80	30.5	20	49	38.44%
	179.5	80.5	31.875	18.125	49	37.33%

# 第三部分



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6	17.8	286	0.3	6			9	144	4.5	72	1	16	3	48	1.5	2.2		









			44	704	488	216	3		
			22	352	260	92	13		
			10	(404)			53		
			34.5	84	0	84	140		







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	157	2800	36.5	736	40	680	22	408	29	472	14.5	264	15	240	17.5	20	31	28





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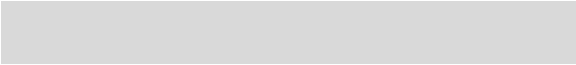
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			40	680	458	222			
			22	408	240	168			
			10	(404)				53	

			29	472	376	72	2		
			14.5	264	168	96			



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	178	78.5	33.5	19	47	35	1.5	10	29	9.5	6	14.5	5.5	15	1	3.5	1.5		6	6	31
	100	44.1	18.8	10.7	26.4	19.7	0.8	5.6	16.3	5.3	3.4	8.1	3.1	8.4	0.6	2.0	0.8		8.4	17.4	
	$\frac{2252}{47}$	1330	520	402	47	640	24	$1^3$	458	186	6	232	132	240	24	56	36		240	28	
1.	1						2														
2.	(1.5+1.5+1.5×3=7.5)		7.5				(1.5+1.5+1.5×4=9),				6										



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			38 5	644	458	186			
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			10	404			53		

					31.5	528	408	120	
				13.5	256	136	120		
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			21.3	402	230	160	2
			20.8	338	254	72	12
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	176.2	88	31	13.5	43.2	36.5	1.5	8.7	34	8	6.5	17.5	4.5	28	16	-	-	5	-	-	6	9	31
	100	45.0	19.5	9.5	27.6	19.0	0.8	5.4	17.9	4.9	1.6	8.2	3.8	2.2	8.7			2.7			1.6	16.8	
	2432+ 47	1418	576	366	47	712	24	13	526	210	3	252	132	4	256	-	-	80	-	-	240	28	



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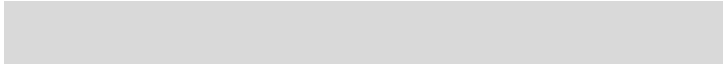




	08								
			42	736	526	210			
			22	384	244	140			
			10	404			53		

				34.5	560	500	80			
				12.5	216	152	64			
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18			/	4	12		
19			/	5	6		
20			/	5	6		
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22			/	5	6		
23			/	5	14		
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			3	48	24	24			1
			2	32	32				1
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			4	64	64				2
			2	32	32				2
			1.5	24	24				2
			1	30	30				2
			4	64	64				3
			1	30	30				3
			2	32	32				4
			4	64	64				3
			4	64	64				4
			1	30	30				4
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		2	0.4	28	16		2	12	2
		3	0.3	18	6		2	12	3
		4	0.3	18	6		2	12	4
		5	0.3	18	6		2	12	5
		6	0.3	18	6		2	12	6
			36.5	736	640	24	12	72	
			4.5	72	72				1
			4	64	43	21			1
			5	80	53	27			2
			4	64	28	36			2
			4.5	72	48	24	3		2
			2	32	20	12			3
			4	64	40	24			3
			2	32	22	10			3
			3	48	34	14			3
			3	48	30	18			3



		*	1.5	24	24			4		
			2	32	20	12		4		
			1.5	24	24			4		
			1.5	24	24			4		
			2	32	26	6		5		
			1.5	24	24			5		
			1.5	24	12	12		5		
			1.5	24	24			5		
			1.5	24	24			5		
			1.5	24	24			5		
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			1.5	24	24			6		
			1.5	24	16	8		6		
			2	32	8	24		6		
			1.5	24	24			6		
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			1.5	24	24			6		
			1.5	24	4	20		6		
			30	480	398	82				
			2	32	24	8		4		
			1.5	24	10	14		5		
			1.5	24	24			5		
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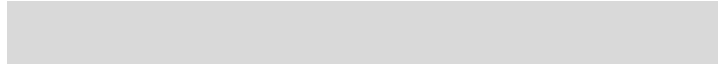
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			2	32	32			1	
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			1.5	24	24			2	
			1	30	30			2	
			4	64	64			3	
			1	30	30			3	
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			5	80	53	27		2	
			4	64	28	36		2	
			4.5	72	48	24	3	2	
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			4	64	40	24		3	
			2	32	22	10		3	
			3	48	34	14		3	

			3	48	30	18		3	
			4	64	40	24		4	
			2	32	26	6	1	4	
			2	32	26	6		5	
			44	704	482	222	4		
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			4	64	58	6	3	5	
			2	32	24	8		5	
			3	48	36	12	3	5	
			3	48	46	2	1	6	
			3	48	38	10	3	6	
			3	48	32	16		6	
			2	32	24	8		6	
			22	352	282	70	13		
			2	60			10		
			2	112			14		
			2	168			21		
			10	404			53		
		I	0.5	12		12		1	
		II	1.5	36		36		2	
		III	1.5	36		36		3	
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	186.5	79.5	28.1	33.4	45.5	35	1.5	10	30.1	13.9	0.5	14.4	7.6	4	9	7	0	4.1	0.9	0	1	2	6	6	31+2.5	
	100	43.1	115.1	117.5	24.3	18.8	0.8	5.4	16.6	7.0	0.2	7.7	4.1	2.1	4.8	3.8	0	2.2	0.5	0	1.6	3.2	3.2		18.0	
	2356+	46.6	1352	450	494	60+	46.6	640	24	13	482	222	0.8	230	122	4.8	144	112	0	66	14	0	48	96	96	60+28
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4.5			 		2-8
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6			/	2	36		
7		II	/	2	(24)		
8			/	3	18		
9			/	3	24		
10			/	3	12		
11			/	3	10		
12			/	3	12		
13		III	/	3	(24)		
14			/	4	24		
15			/	4	6		
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			4	64	64			1	
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			1	30	30			2	
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			1	30	30			3	
			4	64	64			3	
			4	64	64			4	
			2	32	32			4	
			1	30	30			4	
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		2	0.4	28	16		2 12	2	
		3	0.3	18	6		2 12	3	
		4	0.3	18	6		2 12	4	
		5	0.3	18	6		2 12	5	
		6	0.3	18	6		2 12	6	
			36.5	736	640	24	12 72		
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			4	64	43	21		1	
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			4	64	28	36		2	
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			2	32	22	10		3	
			3	48	34	14		3	
			3	48	30	18		3	

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482	222	4		
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30	18		5	
230	122			
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		14	2	
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	12		1	
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			1.5	24	24			5	
			1.5	24	24			5	
			1.5	24	10	14		5	
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			1.5	24	18	6		6	
			1.5	24	18	6		6	
			1.5	24	18	6		6	
			1.5	24	24			6	
			1.5	24	18	6		6	
			1.5	24	16	8		6	
			1.5	24	18	6		6	
			1.5	24	16	8		6	
			1.5	24	24			6	
			1.5	24	12	12		6	
		*	1.5	24	24			6	
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			1.5	24	24			4	
			2	32	20	12		4	
			1.5	24	18	6		5	
			1.5	24	24			5	
			1.5	24	24			5	
			1.5	24	4	20		6	



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1	312301			1	10(2)		
2	314301			2	14(2)		
3	314302				21(2)		
4	311301				2(1)		
5	311302				2(1)		
6	311304				2(1)		
7	311305				2(1)		
8	311105	1			2		
9	311106	2			2		
10	311107	3			2		
11	311108	4			2		
12	311109	5			2		
13	311110	6			2		
14	303802		/	2	5(1)		
15	301896		/	3	5(1)		
16	301898		/	3	5(1)		
17	301850		/	4	5(1)		
18	303804		/	5	5 1		

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19	303805		/	5	5 1		
20	303806		/	6	5 1		
21	303807		/	6/6	15 3		
22	303808		/	7	80 16		
23	303809		/	8	3		
24	303810		/	8	60 12		
					255 51		

## 5

	312101		4	64	64				1
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	311102		2	32	32				1
	313101		1	30	30				1
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	313102		1	30	30				2
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	312104		4	64	64				4
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	313104		1	30	30				4
	311104		4	64	64				3
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	311108	4	0.3	18	6		2	12	4
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	313412	III	3	48	30	18			3
	301499	3	3.5	56	40				3

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	301851		2	32	4	28		4	
	303502		2 5	40	30	10		5	
	303507		2	32	22	10		5	
	303508		4	64	64			5	
	303504		2 5	40	30	10		5	
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	303506		3	48	36	12		6	
	303503		2 5	40	32	8		6	
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	312301		2	60			10	1	
	314301		2	112			14	2	
	314302		2	168			21		
			10	404			45		

		*							
				28	448	408	40		
			15.5	248	216	36			
22			8				*		



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	179	77.5	38	17	46.5	35	1.5	10	30.5	5	2.5	12	5.5	3	18	4		5	1						1	2						
	100	43	21	10	26	20	1	6	17	3	1	6	3	2	10	2		3	1						2	3	4				17	
( )	2216+ 48	1320	608	288	48	640	24	13	488	80	2.5	192	104	4.5	288	64		80	16					48	72	120				28		

## 1.9

1	16.9	294	7.4	142	9.5	152								1	0.8			
1														2	2			
2	26.9	454	10.4	190	9.5	152			4	64			3	48		0.2		
2	1.5	24	1.5	24										4	7			
3	25.3	420	7.3	132	11	176			4	64			3	48	1	0.8		
3														1	0.8			
4	29.8	492	9.3	164	3	48	8	128	4.5	72	2	32	3	48	1	0.8		
4														1.5	2			
5	17.3	278	0.3	6	2.5	40	7.5	120	4	64			3	48		0.2		
5														1	1			
6	12.8	206	0.3	6					5.5	88	4	64	3	48	3	4.4		
6																		
7	2	48					2	48									16	16
7																		
8																	15	12
	132.5	2216	36.5	664	35.5	568	17.5	296	22	352	6	96	15	240	15.5	20	31	28



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1			/	7	48		
2			/	1	16		/ /
3			/	1	8		/ /
4			/	2	8		/ /
5			/	2	8		/ /
6			/	1	8		/ /
7			/	2	24		/ /
8			/	3	8		/ /
9			/	3	16		/ /
10			/	3	16		/ /
11			/	4	8		/ /
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13			/	3	8		/ /
14			/	5	8		/ /
15			/	4	16		/ /
16			/	4	16		/ /
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22			/	4	16		/ /
23			/	5	16		/ /
24			/	5	8		/ /
25			/	5	8		/ /

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37			/	5	8		/ /
38			/	4	8		/ /
		--		--	448		
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1				1	10(2)		
2				2	14(2)		
3					21(2)		
4					2(1)		
5					2(1)		
6					2(1)		
7					2(1)		
8				2	3		
9				3	3		
10				3	3		
11				3	3		
12				4	3		
13				4	3		
14				4	3		
15				4	3		
16				5	3		
17				5	3		
18				5	3		
19				5-8	3		
20				7	80(16)		
21				8	60(12)		
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		2	0.4	28	16		2 (12 )	2	
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		5	0.3	18	6		2 (12 )	5	
		6	0.3	18	6		2 (12 )	6	
			36.5	736	640	24	12 (72 )		
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			2	32	24	8		1	
			4.5	72	72			1	
			3	48	48			2	
			3.5	56	56			2	
			3	48	48			2	
			3	48	40	8		3	
			3	48	48			3	
			3	48	32	16		3	



			2	32	24	8		2	
			2	32	24	8		2	
			2	32	16	16		3	
			2	32	24	8		4	
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			2	32	24	8		6	
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			44	704	504	200			
			2 5	40	32	8		5	
			2 5	40	32	8		2	
			3	48	32	16		4	
			2 5	40	16	24		3	
			2 5	40	32	8		5	
			2 5	40	32	8		6	
			2	32	16	16		4	
			17.5	280	192	88			
			28	6				*	



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## 1.9

134	2288	36.5	664	39.5	640	21	368	16	264	6	112	15	240	15	19	31	28	











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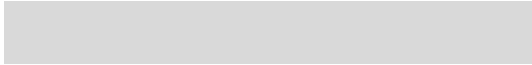
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## 1.9

1	16.9	294	7.4	142	7	112					2.5	40			1	0.8		
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2	26.9	462	10.4	190	13.5	224							3	48		0.4		
2	1.5	24	1.5	24											4	7		
3	23.3	388	7.3	132	10.5	168			2.5	40			3	48	1	0.8		
3															1.5	1.8		
4	25.3	420	9.3	164	6	96	4	64	3	48			3	48	2	1.2		
4															1	1.2		
5	21.8	350	0.3	6			11.5	184	2	32	5	80	3	48		0.4		
5															0.5	0.6		
6	18.3	314	0.3	6			7.5	140	7.5	120			3	48		0.4		
6	2.5	60					2.5	60										
7	4	96					4	96									16	16
7																		
8																	15	12
	140.5	2408	36.5	664	37	600	29.5	544	15	240	7.5	120	15	240	13.5	16.6	31	28

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1.1					1-8
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2.2					1 4 6 2 4 6
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3.1					3-8
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3.3					3-8
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4.2					1--8
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1		*	/	2	24		
2			/	6	60		
3			/	7	48		
4			/	7	48(2)		
5			/	6	60		
6			/	2	16		/ /
7			/	2	24		/ /
8			/	3	8		/ /
9			/	3	8		/ /
10			/	4	16		/ /
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12			/	5	16		/ /
13			/	5	16		/ /
14			/	5	16		/ /
15			/	6	16		/ /
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1				1	10(2)		
2				2	14(2)		
3					21(2)		
4					2(1)		
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6					2(1)		
7					2(1)		
8		1		1	2		
9		2		2	2		
10		3		3	2		
11		4		4	2		
12		5		5	2		
13		6		6	2		
14				3	3		
15				3	3		
16				3	3		
17				4	3		
18				4	3		
19				5	3		
20				5-8	3		
21				7	80(16)		
22				8	60(12)		
		--		--	223		

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			4	64	64			1	
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			2	32	32			2	
			1	30	30			1	
			4	64	64			2	
			2	32	32			1	
			1.5	24	24			2	
			1	30	30			2	
			4	64	64			3	
			1	30	30			3	
			4	64	64			4	
			2	32	32			3	
			1	30	30			4	
			4	64	64			4	
		1	0.4	28	16		2 12	1	
		2	0.4	28	16		2 12	2	
		3	0.3	18	6		2 12	3	
		4	0.3	18	6		2 12	4	
		5	0.3	18	6		2 12	5	
		6	0.3	18	6		2 12	6	
			36.5	736	616	24	12 72		
			4.5	72	72			1	
		*	1	24		24		2	
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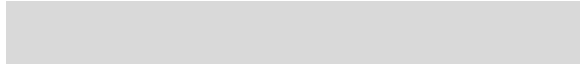




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			31				140		

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			3	48	32	16		5	
			2 5	40	40			4	
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			2	32	24	8		5	
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			2	32	24	8		5	
			2	32	24	8		5	
			2	32	24	8		5	
			1	16	16			5	
			2 5	40	32	8		6	
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			2	32	24	8		6	
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		*	2	32	24	8		5	
			1.5	24	16	8		6	
			1	16	16			6	
			43.5	696	520	176			
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			2 5	40	24	16		4	
			2 5	40	16	24		5	
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			2	32	24	8		4	
			2	32	24	8		5	
			29	464	288	176			
		22				10			6
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																				1	2			
	187	82	29	30	46	35	1.5	10	34	6	2.5	13	13.5	2.5	10	7		4	2		3	4.5	7.5	31
	100	44	15.5	16	24.5	19	1	5	18	3	2	7	7	1	5	4	0	2	1		2	2	4	17
( )	2380+ 46	1392	464	524	46	640	24	13	544	104	2.5	208	252	2.5	160	112		64	32		48	72	120	28

1.9

1	21.4	374	7.4	142	11	184			3	48					1	0.8		
1															2	2		
2	24.9	422	10.4	190	9.5	152					2	32	3	48		0.4		
2	1.5	24	1.5	24											4	7		
3	23.8	396	7.3	132	11	176			2.5	40			3	48	1	0.8		
3															2	2		
4	22.3	372	9.3	164	3	48	4.5	72	2	32			3	48	2	1.2		
4															0.5	0.5		
5	22.8	366	0.3	6	5.5	88	7.5	120	4.5	72	2	32	3	48		0.4		
5	2.5	60					2.5	60										
6	20.3	326	0.3	6			10	160	5	80	2	32	3	48		0.4		
6															2.5	2.5		
7	2	48					2	48									16	16
7																		
8																	15	12
	141	2380	36.5	664	40	648	26.5	460	17	272	6	96	15	240	15	18	31	28

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1.1					1-7
1.2					1-8
1.3			CRM		1-8
1.4					
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2.1					2 4-6
2.2			CRM		4-6
2.3					4 6
3.1					4 6-8
3.2					5-7
3.3			CRM		5-8
4.1					5-8

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					( )		
1				1	10(2)		
2				2	14(2)		
3					21(2)		
4					2(1)		
5					2(1)		
6					2(1)		
7					2(1)		
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10		3		3	2		
11		4		4	2		
12		5		5	2		
13		6		6	2		
14				3	3		
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16				3	3		
17				3	3		
18				4	3		
19				6	3		
20				6	10		
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22				7	80(16)		
23				8	60(12)		
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[Redacted]

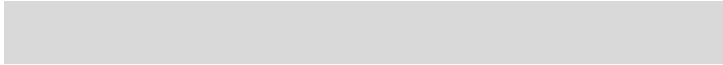
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			2 5	40	32	8		5	
			21	336	240	96			
23			6			*			



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## 1.9

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3	25.3	420	7.3	132	13	208	2	32					3	48	1	0.8		
3															1.5	1.8		
4	25.3	420	9.3	164	8.5	136	2.5	40	2	32			3	48	1	0.8		
4	1	24					1	24							1	1.2		
5	23.3	374	0.3	6			10	160	6	96	4	64	3	48		0.4		
5															0.5	0.6		
6	16.3	262	0.3	6			5	80	8	128			3	48		0.4		
6	1	24					1	24							2	4.2		
7	2	48					2	48									16	16
7																		
8																	15	12
	137	2312	36.5	664	40	648	23.5	408	16	256	6	96	15	240	13	16.6	31	28

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1.1					2-6
1.2					2-7
2.1					4-6
2.2					4 6
2.3					3 4
3.1					4 6
3.2					5 6
3.3					5-8
4.1					5-8



## 3

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5			/	1	16		/ /
6			/	2	24		/ /
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21			/	4	8		/ /
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24			/	5	16		/ /
25			/	5	16		/ /
26			/	5	24		/ /
27			/	5	8		/ /
28			/	5	8		/ /

29			/	5	32		/ /
30			/	5	16		/ /
31			/	5	48		/ /
32			/	5	16		/ /
33			/	6	8		/ /
34			/	6	16		/ /
35			/	6	16		/ /
36			/	6	8		/ /
37			/	6	24		/ /
38			/	6	8		/ /
39			/	6	16		/ /
40			/	6	16		/ /
		--		--	640		
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1				1	10(2)		
2				2	14(2)		
3					21(2)		
4					2(1)		
5					2(1)		
6					2(1)		
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8		1		1	2		
9		2		2	2		
10		3		3	2		
11		4		4	2		
12		5		5	2		
13		6		6	2		
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18				4	3		
19							

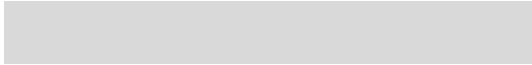
- c?- fOET >0>ç(FAÖ/ß Ãã îB"0x|ò\$@1 !?² İ#W) 0 ° ù` ÀAAAã îr,CÉC@ Ü ¥

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			3	48	24	24		2	
			2	32	32			2	
			1	30	30			1	
			4	64	64			2	
			2	32	32			1	
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			4	64	64			3	
			1	30	30			3	
			4	64	64			4	
			2	32	32			3	
			1	30	30			4	
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		1	0.4	28	16		2 12	1	
		2	0.4	28	16		2 12	2	
		3	0.3	18	6		2 12	3	
		4	0.3	18	6		2 12	4	
		5	0.3	18	6		2 12	5	
		6	0.3	18	6		2 12	6	
			36.5	736	640	24	12 72		
			3	48	32	16		1	
			0.5	8	8			1	
		*	1	24		24		2	
			4.5	72	72			1	
			3	48	48			2	
			3.5	56	56			2	
			3	48	48			2	
			2.5	40	40			3	
			3	48	40	8		3	

			2 5	40	40			3	
			3	48	48			3	
			2	32	32			3	
			0.5				3	3	
			0.5				3	3	
			0.5				3	3	
			2 5	40	40			4	
			3	48	48			4	
			3	48	32	16		4	
			0.5				3	4	
			0.5				3	4	
			42 5	648	584	64	15		
			2	32	24	8		3	
			2 5	40	16	24		4	
			1	24		24		4	
			2	32	24	8		5	
			2 5	40	24	16		5	
			2 5	40	24	16		5	
			3	48	24	24		5	
			0.5				3	5	
			2 5	40	32	8		6	
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			2	(60)			10	1	
			2	(112)			14	2	
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			1	(16)			2		
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			1	(16)			2		
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			16				80	7	
			12				60	8	
			31				140		

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			2	32	16	16			6
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			2	32	16	16			6
			2	32	24	8			6
			32 5	536	352	184			
			22			10			6



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																			1	2				
	181.5	84	33	20.5	44	35	1.5	10	36.5	3.5	2.5	12.5	11.5	0.5	14	2		4	2		3	4.5	7.5	31
	100	46	18	11	24	19	1	5	20	2	1	7	7	0	8	1		2	1		2	2	4	17
( )	2320+ 44.6	1424	528	368	44.6	640	24	13	584	64	3	200	216	0.6	224	32		64	32		48	72	120	28



## 1.9

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2	1.5	24	1.5	24											2	2.8		
3	25.8	428	7.3	132	13	208	2.5	40					3	48	1	0.8		
3															1.5	1.8		
4	25.8	428	9.3	164	8.5	136	3	48	2	32			3	48	1	0.8		
4	1	24					1	24							1	1.2		
5	20.3	326	0.3	6			7	112	6	96	4	64	3	48		0.4		
5	1	24					1	24										
6	18.8	302	0.3	6			7.5	120	8	128			3	48		0.4		
6															2.5	4.8		
7	2	48					2	48									16	16
7																		
8																	15	12
	137.5	2320	36.5	664	40	648	24	416	16	256	6	96	15	240	13	16.6	31	28

2

1.1					2-6
1.2					2-7
2.1					4-6
2.2					4 6
2.3					3 4
3.1					4 6
					5
3.2					6
3.3					5-8
4.1					5-8

3

1		*	/	1	24		
2			/	7	48		
3			/	4	24		
4			/	5	24		
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6			/	2	24		/ /
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8			/	3	8		/ /
9		/	2			/ /	

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		--		--	672		
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## 4

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2				2	14(2)		
3					21(2)		
4					2(1)		
5					2(1)		
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8		1		1	2		
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15				3	3		
16				3	3		
17				4	3		
18				4	3		
19				6	3		
20				5-8	3		
21				7	80(16)		
22				8	60(12)		
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			2	32	32			1	
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			4	64	64			3	
			1	30	30			3	
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	2		0.4	28	16		2 12	2	
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	5		0.3	18	6		2 12	5	
	6		0.3	18	6		2 12	6	
			36.5	736	640	24	12 72		
			3	48	32	16		1	
			0.5	8	8			1	
		*	1	24		24		2	
			4.5	72	72			1	
			3	48	48			2	
			3.5	56	56			2	
			3	48	48			2	
			3	48	40	8		3	
			2.5	40	40			3	
			3	48	48			3	
			2.5	40	40			3	
			2	32	32			3	

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		3	48	48			4	
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		0 5				3	4	
		0 5				3	4	
		42 5	648	584	64	15		
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		3	48	32	16		6	
		0 5				3	6	
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		24 5	416	200	216	3		
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		2	(112)			14	2	
		2	(168)			21	2	
		10	(404)			53		
		3					5-8	
		16				80	7	
		12				60	8	
		31				140		







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1	21. 9	374	10. 4	190	11. 5	184									1	0. 8		
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2	23. 4	398	7. 4	142	13	208							3	48	2	2. 4		
2	1. 5	24	1. 5	24											4	7		
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4	3. 5	56							3. 5	56								
5	21. 3	342	0. 3	6	3	48	7	112	5	80	3	48	3	48	1. 5	2. 2		
5	3	48					1. 5	24	1. 5	24								
6	15. 3	246	0. 3	6			8	128	2. 5	40	1. 5	24	3	48	3	3. 6		
6	2. 5	40							2. 5	40								
7																	16	16
7																		
8														2-6			15	12
	144. 5	2392	36. 5	664	45. 5	728	21. 5	344	21. 5	344	4. 5	72	15	240	19. 5	23. 6	31	28

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1.1					1 2 5 6
1.2					1
1.3					1 2 3 5
1.4					1 2 4 5 6
2.1					1 2 3 4 5 6
2.2					4 5 6
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4.1					1 2 5 6
4.2					7
4.3					8

## 3

1				1	44	/	
2				1	20	/	
3				1	24	/	
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5				2	36	/	
6				2	40	/	
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8				3	32	/	
9				3	12	/	
10		AutoCAD		3	20	/	
11				3	4	/	
				3	24	/	
		Photoshop		3	20	/	
				3	22	/	
				4	8	/	
				4	16	/	
				4	32	/	
				4	36	/	
				5	8	/	
				5	48	/	
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				5	32	/	
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				5	20	/	
				6	36	/	
				6	64	/	
				6	28	/	
				6	22	/	
				6	40	/	
31				6	28	/	
					828		

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1				1	2		
2					2		
3					2		
4					2		
5					2		
6				1	10	2	
7				2	5	1	
8				2	5	1	
9				2	14	2	
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14				4	3	0.5	
15				4	3	0.5	
16				4	3	0.5	
17				4	1		
18				5	2		
19				5	3	0.5	
20				5	3	0.5	
21				5	3	0.5	
22				5	2		
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24				6	3	0.5	
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26		1		1	2		
27		2		2	2		
28		3		3	2		
29		4		4	2		
30		5		5	2		
31		6		6	2		

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32				6	10 2		
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34				8	60 12		
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36				4	21 2		
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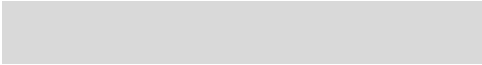
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			4	64	64			2	
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			4	64	64			3	
			1	30	30			3	
			4	64	64			4	
			4	64	64			4	
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		4	0.3	18	6		2 12	4	
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		6	0.3	18	6		2 12	6	
			36.5	736	640	24	12 72		
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			3.5	56	36	20	2	1	
			4.5	72	72			1	
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			3.5	56	24	32	3	3	
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	AutoCAD	2	32	12	20			3	
	photoshop	2	32	12	20			3	
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			( )						
			( )						
			( )					4	
		10	(404)			53			





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			44	712	492	220	14		
			20.5	328	252	76	24		
			10	404			53		

				16-22					
			5-8						
			17	6.5			*		



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			45	728	530	198	19		
			21	336	270	66	24		
			10	(404)			53		

					16-22					
			5-8							
16					5	*				



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## 3

1				1	24		
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3				2	8		
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		*	2	32	8	24		5	
			1	16	4	12		5	
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			29.5	256	112	144			
			2.5	40	16	24		2	
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7			/	2	40		
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16			/	4	32		
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31			/	6	32		
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			1	30	30			3	
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			3	48	16	32		4	
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			11	176	168	280			
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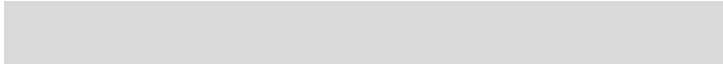


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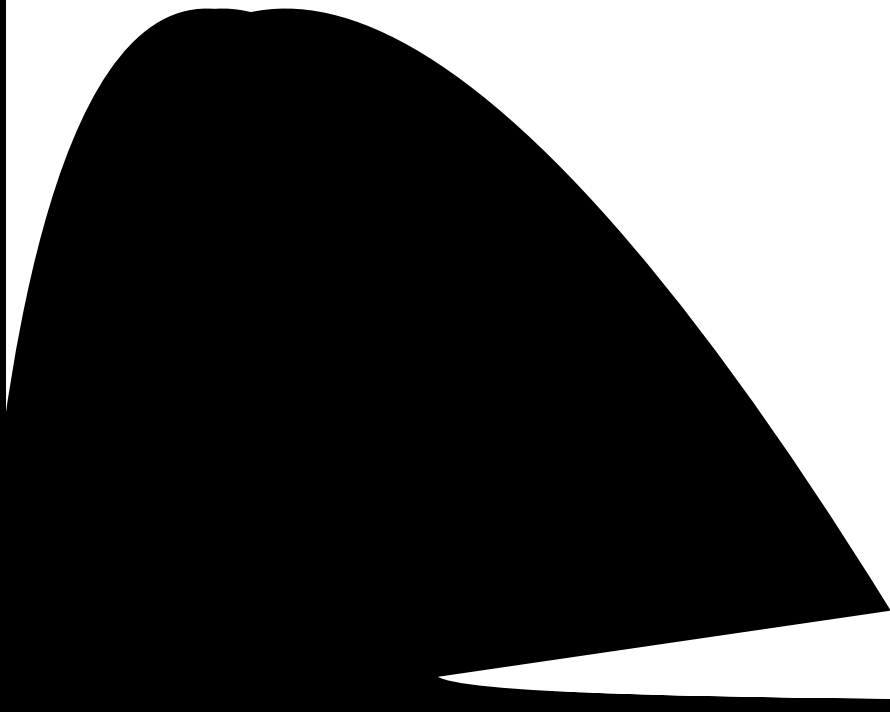
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			22	380	296	84			
			39				180	*	

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					( )		
					245 (49)		



			43	696	534	162			
			25	400	316	84			
			39	39			180		
			10	404			53		

			25.5	424	349	75			
			15	260	152	108			
			16					5	

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	183.5	78.5	26	32	47	34.5	2	10	33	8	2	11	10	4	8	9	0	3	3	0	3	6	6	31
	100	42.8	14.2	17.4	25.6	18.8	1.1	5.4	18.0	4.4	1.1	6.0	5.4	2.2	4.4	4.9	0	1.6	1.6	0	8.2		16.9	
	2304 (47)	1336	416	552	47	632	32	13	528	136	2	176	192	4	128	144	0	48	48	0	240		28	

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1.1					1 4
1.2					3 4
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2					
2.1					1 8
2.2					1 8
2.3					1 8
2.4					1 8
2.5				4	1 8
3					
3.1					1 8

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3.2					1.8
3.3					1.8
4					
4.1					1.8
4.2					1.8
4.3					1.8
4.4					1.8
4.5					1.8
4.6					1.8

## 3

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5			/	2	24		
6			/	2	32		
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11			/	4	32		
12			/	4	36		
13			/	5	16		
14			/	5	16		
15			/	5	24		

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16		Véb UI	/	5	32	UI Véb	
17			/	5	24		
18		Véb	/	5	32	Véb	
19			/	6	16		
20		Véb	/	6	32	Véb	
21			/	6	32	APP	
22			/	6	32		
23		Véb	/	6	48	Véb	
		--		--	624		

## 4

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3					21(2)		
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12		5			2		
13		6			2		
14				3	5(1)		
15				3	5(1)		
16				4	5(1)		
17				4	5(1)		
18				5	5(1)		

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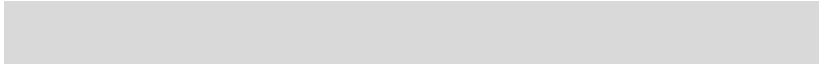


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			4	64	48	16		5	
			4.5	72	48	24		5	
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			2	60			10	1	
			2	(112)			14	2	
			2	(168)			21		
			1	(16)			2		
			1	(16)			2		
			1	(16)			2		
			1	(16)			2		
			10	(404)			53		

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		Vêb	4	64	32	32		5	
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		Vêb	3	48	16	32		6	
		Vêb	5	80	32	48		6	
		*	2	32	32	0		6	
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			24	384	224	160			
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			3	48	16	32		6	
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			12	192	88	104			
			17		6	*			



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1	18.9	326	10.4	190	8.5	136											0.4		
1																	2	2	
2	26.9	462	7.4	142	15.5	248			1	24				3	48	1	0.8		
2	1.5	24	1.5	24												4	7		
3	25.8	444	9.3	164	8	128	5.5	104						3	48	2	1.2		
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4																2	2	3	
5	19.3	310	0.3	6				7	112	6	96	3	48	3	48		0.4	8	
5																2	2		
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6																			
7																		16	16
7																			
8																		15	12
	135.5	2272	36.5	664	39	624	22	368	17	280	6	96	15	240	18	21	31	28	
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## 2

1.1					2 3 4 6
1.2			Python	Li nux	1 4
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2.1					2 6
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3.1			Web	Web	1 3 4 5
3.2			ETL		3 4
3.3				Spark	5 6
4.1					1 8
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1			/	1	24		
2		Vøb	/	1	32	Vøb	Vøb
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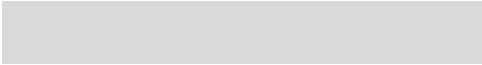
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13					2		
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15				3	5(1)		
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17		Web		5	5(1)		Web
18		Hadoop		5	5(1)		
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			2	32	32				2
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			1	30	30				2
			1.5	24	24				2
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	Veb		4	64	28	36		5	
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	Hadoop		1	30			5	5	
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			12	480			60	8	
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			39				180		
			2	60			10	1	
			2	112			14	2	
			2	168			21		
			10	404			53		

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1	2																			2	2																		
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2	3. 5	24	1. 5	24																4	7																		
3	27. 3	436	7. 3	132	13	208	3	48					3	48						1	0. 8																		
3	4	64							4	64																													
4	29. 8	460	9. 3	164	4. 5	72	8	128				3	48	3	48					2	1. 2																		
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6																																							
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8	15														2-6													15	12										
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3		8																										7-8											

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1.1					1-8 7 8 1
1.2					1--8 8 1
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2 3					1-8 5-8
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2 5					1-8 6 1





3.

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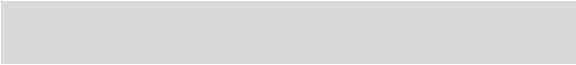
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				5-8	(3)		
				7	80(16)		
				8	60(12)		
					205 (41)		

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	312101		4	64	64			1	
	307101		3	48	24	24		2	
	311102		2	32	32			2	
	313101		1	30	30			1	
	312102		4	64	64			2	
	311101		2	32	32			1	
	314101		1.5	24	24			2	
	313102		1	30	30			2	
	312103		4	64	64			3	
	313103		1	30	30			3	
	312104		4	64	64			4	
	311103		2	32	32			3	
	313104		1	30	30			4	
	311104		4	64	64			4	
	311105	1	0.4	28	16		2 12	1	
	311106	2	0.4	28	16		2 12	2	
	311107	3	0.3	18	6		2 12	3	
	311108	4	0.3	18	6		2 12	4	
	311109	5	0.3	18	6		2 12	5	
	311110	6	0.3	18	6		2 12	6	
			36.5	736	640	24	12 72		
	308401		3	48	48			1	
	308402		3	48	48			1	
	308403		3	48	48			1	
	308404		3	48	48			2	
	308405		3	48	48			3	
	308406		3	48	48			3	
	308407		2	32	32			3	
	308408		3	48	48			1	
	308409		3	48	40	8		2	
	308410		3	48	40	8		3	
	308411		3	48	40	8		2	
	308412		2.5	40	40			2	

	308413		2	32	32			3	
	308414		2	32	32			4	
	308415		2.5	40	40			5	
	308416		3	48	48			4	
	308419		1	16	16			1	
			45	720	696	24			
	308501		3	48	48			5	
	308502		3	48	48			3	
	308503		2	32	32			4	
	308504		2.5	40	40			5	
	308505		2	32	32			5	
	308506		2	32	32			4	
	308507		2	32	32			4	
	308508		2	32	28	4		4	
	308509		2	32	24	8		5	
			20.5	328	316	12			
	312301		2	(60)			10	1	
	314301		2	(112)			14	2	
	314302		2	(168)			21		
	311301		1	(16)			2		
	311302		1	(16)			2		
	311304		1	(16)			2		
	311305		1	(16)			2		
			10	404			53		

		22		10				2	
		10	*						
(10)				2	32	32			6
				2	32	32			6
				2	32	32			6
				2	32	32			6
				2	32	32			6
				2	32	24	8		6
				2	32	32			6
				2	32	32			6
				2	32	32			6
				2	32	32			6
(2)				2	48	0	48		5
		*		2	48	0	48		6
(10)				1.5	24	12	12		3
				1.5	24	12	12		3
				1.5	24	12	12		3
				1.5	24	12	12		5
				1.5	24	12	12		4
				1.5	24	12	12		5
				1.5	24	12	12		4
				1.5	24	12	12		4
			22	792	580	212			
6				2	32	16	16		4
				2	32	16	16		4
				2	32	16	16		4
				2	32	16	16		5
				2	32	16	16		5
				2	32	16	16		5
				6	192	128	64		



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	190.5	69	27.5	45	49	35	1.5	10	25	19	3	9	13	5	9.5	8.5	0	3	3	0	1	2
	100	36	14	24	26	18	1	5	13	10	2	4	7	3	5	4		2	2		2	3
	2368	1184	440	744	49	640	24	13	402	302	3	142	234	5	152	136		48	48		48	96
1.	1										2											
2.																						

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1	17.4	326	7.4	142	7	112	3	72										1	0.8		
1																		2	2		
2	24.4	414	10.4	190	6.5	104	2.5	40	2	32				3	48			2	0.4		
2	1.5	24	1.5	24														4	7		
3	24.8	412	7.3	132	9	144	3.5	56	2	32				3	48			1	0.8		
3																		2	2		
4	29.8	492	9.3	164	6	96	3.5	56	4	64	4	64	3	48				2	1.2		
4																		2	2		
5	19.3	310	0.3	6	6.5	104	3.5	56	4	64	2	32	3	48					0.4		
5																		2	2		
6	24.3	390	0.3	6	9	144	6	96	6	96				3	48				0.4		
6																		2	2		
7																				16	16
7																					
8																				15	12
	190.5	2368	36.5	664	47	704	27	376	18	288	6	96	15	240	18	21			31	28	
	5-8					3					8										

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					148		

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			3	48	24	24		2	
			2	32	32			2	
			1	30	30			1	
			4	64	64			2	
			2	32	32			1	
			1.5	24	24			2	
			1	30	30			2	
			4	64	64			3	
			1	30	30			3	
			4	64	64			4	
			2	32	32			3	
			1	30	30			4	
			4	64	64			4	
		1	0.4	28	16		2	1	
		2	0.4	28	16		2	2	
		3	0.3	18	6		2	3	
		4	0.3	18	6		2	4	
		5	0.3	18	6		2	5	
		6	0.3	18	6		2	6	
			36.5	736	640	24	12		
			3.5	56	28	28		1	
			3.5	56	46	10		1	
			3	48	24	24		6	
			3	48	24	24		2	
			3.5	56	28	28		2	
			3	48	24	24		3	
			3.5	56	28	28	5	5	
			3	48	24	24	5	3	
			3	48	24	24		5	
			3	48	24	24		4	

			3	48	24	24		6	
			3	48	24	24		3	
			3	48	24	24		6	
			3	48	24	24	5	4	
			44	704	402	302			
			3	72	0	72		1	
			3 5	56	28	28	5	3	
			3 5	56	12	44	5	4	
			3 5	56	28	28	5	5	
			2 5	40	20	20		2	
			3	48	24	24	5	6	
			3	48	24	24	5	6	
			22	376	142	234			
			2	60			10	1	
			2	112			14	2	
			2	168			21		
			1	(16)			2		
			1	(16)			2		
			1	(16)			2		
			1	(16)			2		
			10	404			53		

				2	32	16	16		6		
				2	32	16	16		3		
				2	32	16	16		2		
				2	32	16	16		5		
				2	32	16	16		3		
				2	32	16	16		5		
				2	32	32			6		
				2	32	16	16		5		
				2	32	16	16		2		
				2	32	16	16		5		
				2	32	16	16		4		
				2	32	16	16		6		
		*		2	32	16	16		6		
				2	32	16	16		4		
		*		2	32	16	16		4		
				2	32	16	16		6		
		16	9	18	" *"						
		2	3	2	1	4	3	32	512	272	240
		2	5	4	2	6	5	3			
				2	32	16	16		4		
				2	32	16	16		4		
				2	32	16	16		4		
				2	32	16	16		5		
				2	32	16	16		5		
				2	32	16	16		5		
		6	3	6							
		3	2	3	1			12	192	96	96



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																			1	2
					640	24	13				3					3				2
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	130.5	2168	36.5	664	38	608	20	320	16	256	5	80	15	240	18	18.6	31		28	



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1.1					3-8
1.2					3-8

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1	309401		/	1	8		
2	309402		/	1	16		
3	309602		/	1	8		
4	309701		/	2	8		
5	309406		/	3	8		
6	309407		/	3	8		
			/	3	8		
8	309505		/	3	8		
9	309510		/	3	24		
10	309503		/	3	8		
11	309408		/	4	24		
12	309409		/	4	8		
13	309502		/	4	8		
14	309508		/	4	24		
15	309614		/	4	8		
16	309404		/	5	16		
17	309503		/	5	8		
18	309504		/	5	16		
19	309507		/	5	8		
20	309509		/	5	8		
21	309610		/	5	8		
22	309643		/	5	16		
23	309612		/	5	8		
24	309613		/	5	8		
25	309615		/	5	8		
26	309618		/	5	8		
27	309702		/	5	8		
28	309703		/	5	16		

35	309607		/	6	8		
36	309608		/	6	8		
37	309609		/	6	8		
38	309616		/	6	8		
39	309617		/	6	24		
					392		

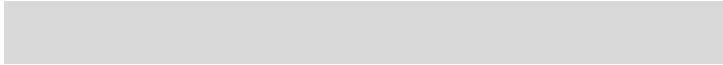


## 5

			4	64	64			1	
			3	48	24	24		2	
			2	32	32			2	
			1	30	30			1	
			4	64	64			2	
			2	32	32			1	
			1.5	24	24			2	
			1	30	30			2	
			4	64	64			3	
			1	30	30			3	
			4	64	64			4	
			2	32	32			3	
			1	30	30			4	
			4	64	64			4	
		1	0.4	28	16			1	
		2	0.4	28	16			2	
		3	0.3	18	6			3	
		4	0.3	18	6			4	
		5	0.3	18	6			5	
		6	0.3	18	6			6	
			36.5	736	640	24	12	72	
			4.5	72	72			1	
			2.5	40	32	8		1	
			2	32	16	16		1	
			3.5	56	56			2	
			3	48	48			2	
			2.5	40	40			2	
			4	64	64			3	
			2.5	40	40			3	
			2.5	40	32	8		3	
			2	32	24	8		4	
			1.5	24	16	8		3	
			2	32	8	24		4	

			3	48	32	16		5	
			2 5	40	32	8		6	
			1	30			5	3	
			1	30			5	4	
			38	608	512	96			
			2	32	24	8		3	
			2 5	40	32	8		4	
			2	32	24	8		5	
			2	32	16	16		5	
			2	32	24	8		3	
			1	16	16	0		2	
			2	32	24	8		5	
			2	32	8	24		4	
			2	32	24	8		5	
			2 5	40	16	24		3	
			1	30			5	4	
			1	30			5	6	
			1	30			5	3	
			1	30			5	5	
			1	30			5	5	
			20	320	208	112			
			2	60			10	1	
			2	112			14	2	
			2	168			21		
			1	(16)			2		





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1	16.4	286	7.4	142	9	144	0	0	0	0	0	0					0.8		
1																	2	2	
2	26.4	446	11.9	214	9	144	0	0	2.5	40	0	0	3	48			0.4		
2																	4	5	
3	24.8	412	7.3	132	9.5	152	0	0	5	80	0	0	3	48	1		0.8		
3																	2	2	
4	24.8	412	9.3	164	5.5	88	3	48	2	32	2	32	3	48	2		1.2		
4																	2	2	
5	19.3	310	0.3	6	4.5	72	7	112	2.5	40	2	32	3	48			0.4		
5																	2	2	
6	18.8	302	0.3	6	0	0	9.5	152	4	64	2	32	3	48			0.4		
6																	2	2	
7																		16	16
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	130.5	2168	36.5	664	38	600	20	312	16	256	6	96	15	240	18	19	31	28	

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1.1				1-8
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1.3				1-5
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3.1				2-7
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4.1				2-8
4.2				5-8
4.3				4-8
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8			/	5	24		
9			/	4	16		
10			/	5	16		
11			/	5	8		
12			/	6	16		
13			/	6	8		
14			/	6	8		
15			/	6	16		
16			/	2	8		
17			/	3	10		
18			/	3	8		
19			/	4	8		
20			/	5	8		
21			/	6	8		
22			/	6	8		
23			/	4	8		
24			/	5	8		
25			/	6	8		
26				6	8		
27				4	8		
28				3	8		
29				4	8		
					322+32		

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1				1	10(2)		
2				2	14(2)		
3					21(2)		
4					2(1)		
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7					2(1)		
8		1			2		
9		2			2		
10		3			2		
11		4			2		
12		5			2		
13		6			2		
14					(3)		
15				7	80(16)		
16				8	60(12)		
					205	41	
1				3	5	1	
2				3	5	1	
3				4	5	1	
4				4	5	1	
5				5	5	1	
6				5	5	1	
7				6	5	1	
8				6	5	1	
					40	8	



				21.5	312	224	88	10	
				10	(404)			53	





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	171	1932	46	732	35	450	75	750				1000	17

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					3		48						
					44		732	690	42	2			
				30	90	400	372	28		200	300		





					10	30	100	64	36		100	100	

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				(10.1)	(2.5)		(2.6)	(1)		(1)		(6)	(1.5)		(0.5)	(33)
		.1	2.9	(5.9)	(1.5)	.7	(1.5)	(0.6)	7.6	(0.6)	.1	(3.5)	(0.9)	2.9	(0.3)	(19.4)
	1932 (115)	1620	32	280	20						58	192	18		18	

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					3									
					44	732	690	2						
					30	90	400	372	28	200	300			







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		12 5	(1)	( )			( )		( . 5)	( )		(11)	( )			( )
		6 9	(10)	( )												( )
	(129)			2				204	78							

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	301422				(1.31)			
					(1.50)			
					(1.13)			
	301423				(1.88)			
					( )	50(1.01)		
					(0.5)	50(1. )		
					(0.20)	(1.67)		
					(0.80)	(1.67)		
					24(0.80)	(1.67)		
					(0.54)	50(1.22)		
					(0.36)	50(1.12)		
		ractice						
					(0.80)	50(1.67)		
					(0.33)	(1.67)		
		1				(1.67)		
					24(0.80)	(1.67)		
					(0.12)	50(0.76)		
					(2.00)			

					.	.		
					(0.8)	50		
					(0.72)	(1.50)		
					(0.72)	(1.50)		
					(0.72)	(1.50)		
		2				(1.50)		
					(0.72)	(1.50)		
					(0.72)	(1.50)		
					(0.80)	(1.67)		

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						(0.5)		
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						3(.5)		
						3(.5)		
8		2				3(.5)		
9						3(.5)		
	314101					( )		
						20(3)		
1		/				21(2)		
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	301422												
	301423												
					49	135	832	739	93	2			

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									50	50		
									50	50		
						2	22		50	50		
						0	6		50	50		
									50	4		
			17.5	60	282	204	78	3	200	250		

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								26	4			
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			1									
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