

华南理工大学文件

2021 18

2021 9

1

1

2

3

2021 7 26

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7

9

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7

9

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3

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2

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3

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“ ” “

” 20%

4 80 “

” “ ”

1.

1 “ ” 6000

2 “ ” 4000

3 “ ” 2500

2.

1 “ ” 15000 / “

” 10000 /

2 8000 /

3 5000 /

4 4000 / 2500 /

1500 /

5

6 1000 /

2

1

1

“

”

2

2

1000

2

“

”

“

”

”

1

1

90%

2

95%

3

90%

4

35%

5

6

“ ”

7

2

20%

1.

2.

3.

4. 60

5.

6. 75

7.

1. “ ”

80

“

” “

”

1

“

”

“

”

2

90

3

4

5

6

7

8

2.

1

10%

2

10%

3

3.

1

25%

2

2.

20%

2%

6%

12%

3.

4.

“

”

40%

1.

4%

20%

30%

2.

12%

40%

50%

3.

24%

66%

76%

4.

10

1

	S	D
Z	T	
20%	65%	15%

S

$$S = 0.20D + 0.65Z + 0.15T$$

D

$$D = D1 + D2 + D3$$

D1

D2

D3

D1

65

10% 60% 30%

		6.0 5.4	5.3 3.6	3.6
		7.0 6.3	6.2 4.2	4.2
		6.0 5.4	5.3 3.6	3.6
		5.0 4.5	4.4 3.0	3.0
		7.0 6.3	6.2 4.2	4.2
		6.0 5.4	5.3 3.6	3.6
		7.0 6.3	6.2 4.2	4.2
		5.0 4.5	4.4 3.0	3.0
	健	6.0 5.4	5.3 3.6	3.6
		5.0 4.5	4.4 3.0	3.0
		5.0 4.5	4.4 3.0	3.0

D2

35

1.

1

先	
	15
	12
	7
	4
	4
	3
	2

2

先			
健	12	10	8
健	9	7	6
健	6	5	4
健	5	4	3
	4		3
	3		2

:

“

”

2.

1

先	1		2		3 4	
	8	6	5	3	3	2
	6	3	3	2	2	1.5
	3	2	2	1.5	1.5	1
	2	1.5	1.5	1	1	0.5

2

先	1	2	3 4
	8	6	3
	6	3	2
	3	2	1.5
	2	1.5	1

3.

1

2

ÿ

D3

1.

		2
		4
		8
		20
		40
		50
		60

2.

	10	8
	8	6
	5	3

$$Z = 2Z_1 + Z_2$$

Z1

Z2

$$Z1 = \sum_{i=1}^{100} \times \begin{matrix} 95 & 85 \\ 75 & 80 \\ 65 & 0 \\ 0 & 0 \end{matrix}$$

Z T

Z2

1.

1

先	1	2	3 6
	8	6	5
	6	5	3
	5	3	2
	3	2	1
	2	1	0.5

2

先				
	1	8	6	5
	2	6	5	4
	3 4	5	4	3
	1	6	4.5	3.5
	2	5	3.5	2.5
	3 4	3	2.5	1.5
	1	5	3.5	2
	2	3	2	1.5
	3 4	2	1.5	1
	1	3	2	1.5
	2	2	1.5	1
	3 4	1	0.5	
	1	1.5	1	
	2 3 4	0.5		

3

2.

	8-10	5-7	3-4
	3-8	2-4	1-2
	0.5-3	0-2	0-1

T

T = T1 + T2 + T3

T1

T2

T3

T1

T1 = 2 × 0.55

T1

0

T2

10%

50%

40%

1.

12

18

2.

51

34

T3

15

1.

1

先	
	10
	9
	7
	5
	4

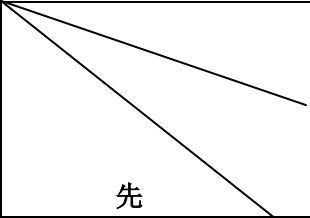
2

先		
	10	8

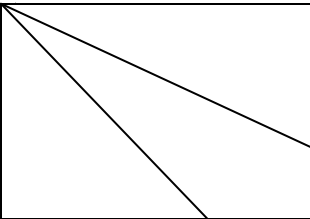
	9	7
	7	5
	5	4
	4	3

2.

1

	1		2		3 4	
	6	4	5	3	3	2
	5	3	3	2	2	1.5
	3	2	2	1.5	1.5	1
	2	1.5	1.5	1	1	0.5

2

	1 3	4 6	7 8
	6	5	3
	5	3	2
	3	2	1
	2	1	0.5

3.

1

先	
	5.0
	2.5
	2.0
	1.0

2

先		
	4.0	3.0
	3.0	2.0
	2.0	1.5
	1.5	1.0

T

1.

1

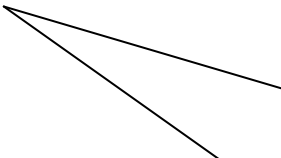
先	
	21
	18
	15
	12
	9

2

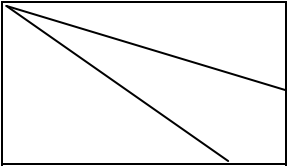
先		
	20	18
	17	15
	14	12
	11	9
	8	7

2.

1

	1		2		3 4	
	6	4	5	3	3	2
	5	3	3	2	2	1.5
	3	2	2	1.5	1.5	1
	2	1.5	1.5	1	1	0.5

2

	1 3	4 6	7 8
	6	5	3
	5	3	2
	3	2	1.5
	2	1.5	1

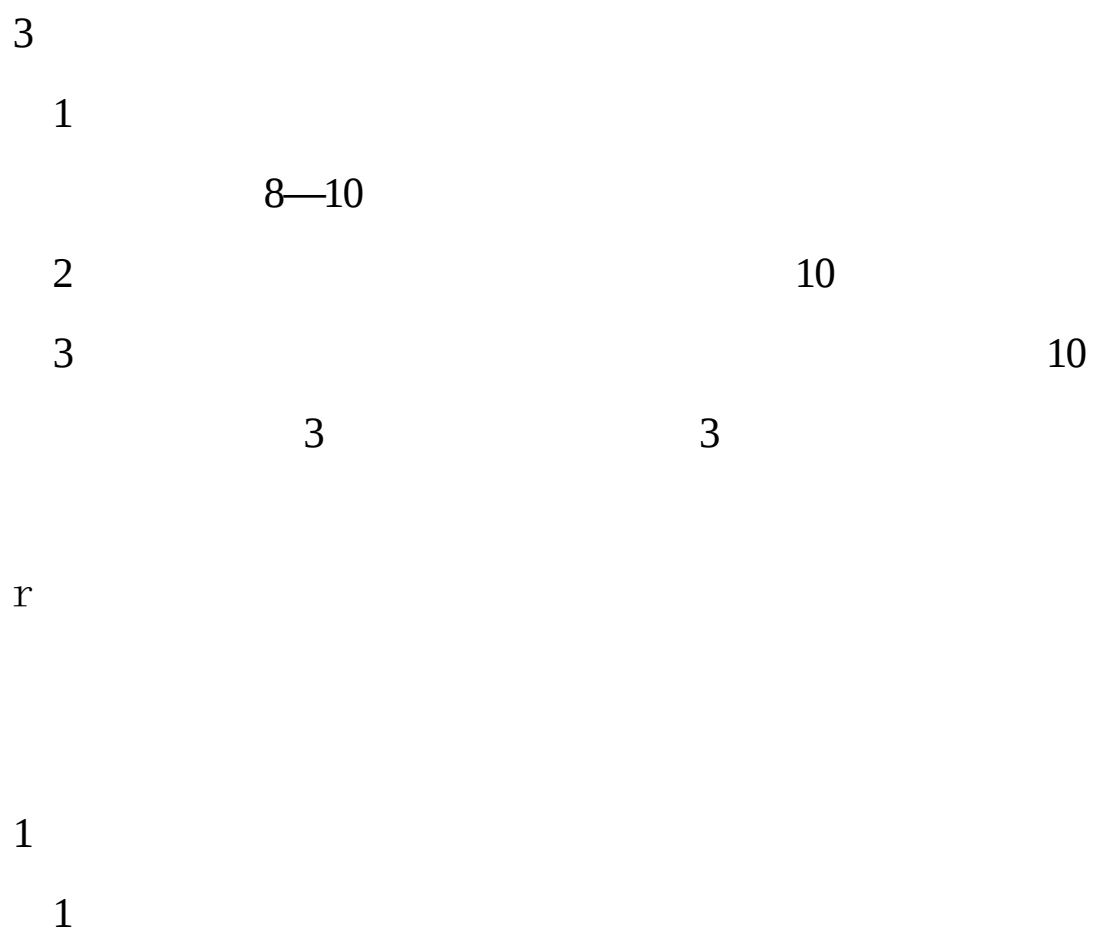
3.

1

先	
	6
	5
	3
	1

2

先		
	5	4
	4	3
	3	1
	1	0.5



3 “ ”

15 10

4 “ ”

20 15

5

2—4

1 30—50

2 2

3 30

4 98% 98% 95%

95% —98% 98% 90% 90% —95% 95%

50 35 25

=

1

5

2

5 4 3

1 1.5

1.								80%
80%	—90%	90%	90%	90%				
10	15							
2								50%
	50%	20%—50%			8	5		
3								
	5	3						
4							70%	70%
—50%	50%	50%	50%				10	15
1								6
2								
	1—4		20	15	10	5		
3				1—6				
	4	3	2.5	2	1.5	1		
				1	1.5			
4						1—4		
				4	3	2	1	
			1	1.5				
5				95%	95%	—90%		90%
	90%	5	10					

3

5

4

45

8

55

15

70

35

ACM	ACM ICPC
	MCM/ICM
Jessup	
“ + ”	
“ ”	
“ ”	
IBM	
	RoboMaster
“ ”	

“ ”	
“ ”	
“ + ”	
“ ”	
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