

• • • • •

$$\mathbf{A} = \mathbf{A} \cdot \mathbf{O}, \quad \mathbf{A} = \mathbf{O}^T \cdot \mathbf{A}$$



a_{ij} ,
i, j
(a_{ij}),
:

$A_i \backslash B_j$	B_1	B_2	...	B_n
A_1	a_{11}	a_{12}	...	a_{1n}
A_2	a_{21}	a_{22}	...	a_{2n}
...
A_m	a_{m1}	a_{m2}	...	a_{mn}

G



1. « »

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(“ ” “ ”),

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$A_i \backslash B_j$	B_1	B_2
A_1		
A_2		

:

1' 1 -
2' 2 -

“ ”,
“ ”.



1. « »

, (“ ” “ ”),

, , ()

$A_i \backslash B_j$	B_1	B_2
A_1	1	-1
A_2	-1	1



2.

« » 50%

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•60%

,

•30% -

,

•10% -

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«

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»

6



2.

- 1, 1
- 2, 2
- 3, 3

	B_1	B_2	B_3
A_1			
A_2			
A_3			

a_{ij}



2.

- 1, 1 —
- 2, 2 — ;
- 3, 3 — .

	B_1	B_2	B_3
A_1	0	30	50
A_2	-30	0	20
A_3	-50	-20	0

a_{ij} —



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$B_j \backslash A_i$	B_1	B_2	B_3	B_4	B_5	α_i
A_1	5	6	7	4	5	4
A_2	3	10	6	5	6	3
A_3	12	5	3	9	8	3
A_4	6	7	5	6	10	5
β_j	12	10	7	9	10	

$\leftarrow \max_i \min_j a_{ij}$

$\uparrow \min_j \max_i a_{ij}$



?

12,

3'

3'

$B_j \backslash A_i$	B_1	B_2	B_3	B_4	B_5	α_i
A_1	5	6	7	4	5	4
A_2	3	10	6	5	6	3
A_3	12	5	3	9	8	3
A_4	6	7	5	6	10	5
β_j	12	10	7	9	10	

$\leftarrow \max_i \min_j a_{ij}$

$\uparrow \min_j \max_i a_{ij}$

« _____ » - (_____)

$\alpha = 5$ r.

« _____ » - (_____)

$\beta = 7$ S.



G (3 3),

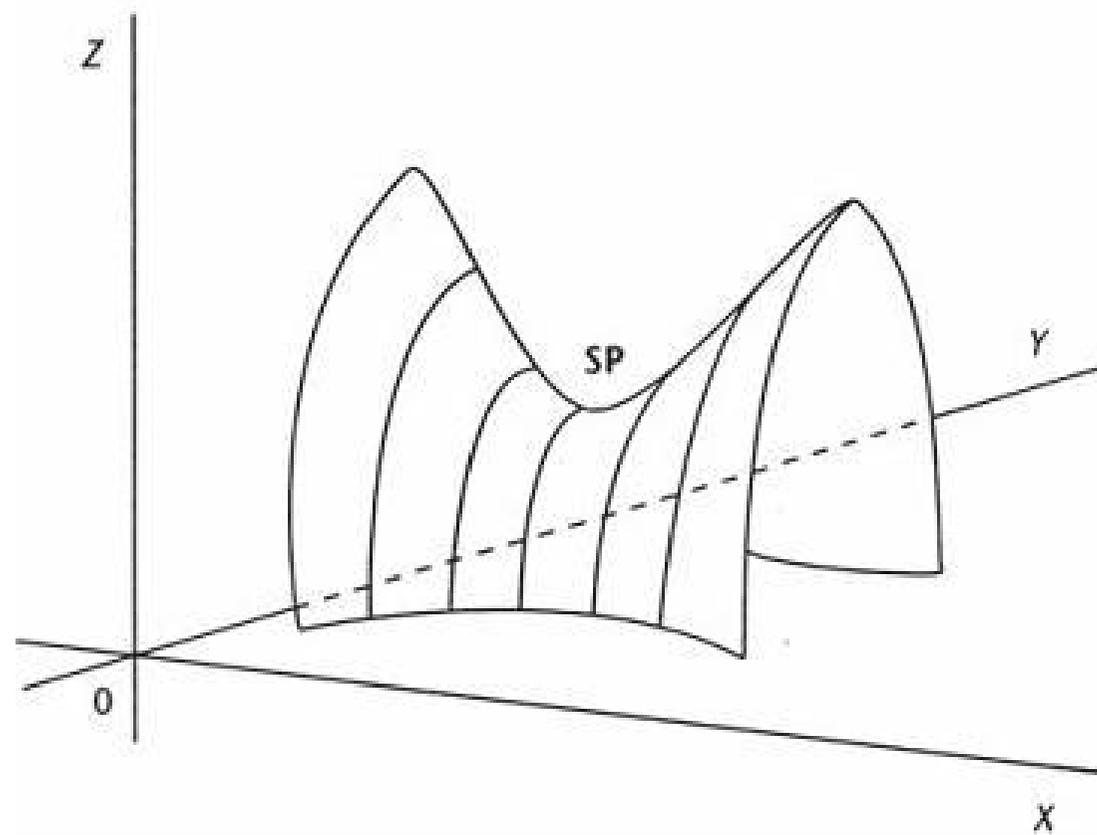
$A_i \backslash B_j$	B_1	B_2	B_3	α_i
A_1	0	-1	-2	
A_2	3	2	-1	
A_3	6	3	0	
β_j				



G (3 3),

$A_i \backslash B_j$	B_1	B_2	B_3	α_i
A_1	0	-1	-2	-2
A_2	3	2	-1	-1
A_3	6	3	0	0
β_j	6	3	0	

$\alpha = \beta = 0,$





G (3 4),

$A_i \backslash B_j$	B_1	B_2	B_3	B_4	α_i
A_1	7	6	9	6	
A_2	8	4	3	4	
A_3	7	6	8	6	
β_j					



G (3 4),

$A_i \backslash B_j$	B_1	B_2	B_3	B_4	α_i
A_1	7	6	9	6	6
A_2	8	4	3	4	3
A_3	7	6	8	6	6
β_j	8	6	9	6	

3 2 3 4
 6.
 : 1 2; 1 4;



$\alpha < \beta,$
β.