

Ampeyabugucabo 03143

Baganne 1

$$\begin{array}{cccccccccc}
 \begin{array}{c} 0 \\ (14) \\ 87 \end{array} & \begin{array}{c} 1 \\ (71) \\ 53 \end{array} & \begin{array}{c} 2 \\ (96) \\ 82 \end{array} & \begin{array}{c} 3 \\ (12) \\ 34 \end{array} & \begin{array}{c} 4 \\ (56) \\ 83 \end{array} & \begin{array}{c} 5 \\ (14) \\ 21 \end{array} & \begin{array}{c} 6 \\ (57) \\ 68 \end{array} & \begin{array}{c} 7 \\ (31) \\ 24 \end{array} & \begin{array}{c} 8 \\ (75) \\ 29 \end{array} & \begin{array}{c} 9 \\ (10) \\ 01 \end{array} \\
 \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow & \swarrow \\
 \begin{array}{c} (27 \ 13) \\ (91 \ 29) \end{array} & & \begin{array}{c} (27 \ 42) \\ (14 \ 24) \end{array} & & \begin{array}{c} (17 \ 26) \\ (14 \ 35) \end{array} & & \begin{array}{c} (29 \ 33) \\ (34 \ 38) \end{array} & & \begin{array}{c} (75) \\ (29) \end{array} & \begin{array}{c} (10) \\ (01) \end{array} \\
 \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow & \swarrow \\
 \begin{array}{c} (911 \ 1446) \\ (2863 \ 4518) \end{array} & & & & \begin{array}{c} (1377 \ 1549) \\ (1596 \ 1792) \end{array} & & & & \begin{array}{c} (75) \\ (29) \end{array} & \begin{array}{c} (10) \\ (01) \end{array} \\
 \swarrow & & & & \swarrow & & & & \swarrow & \swarrow \\
 \begin{array}{c} (3562263 \ 4002371) \\ (11153079 \ 12531043) \end{array} & & & & & & & & \begin{array}{c} (75) \\ (29) \end{array} & \begin{array}{c} (10) \\ (01) \end{array} \\
 \swarrow & & & & & & & & \swarrow & \swarrow \\
 \begin{array}{c} (32940583 \ 53832654) \\ (103133639 \ 168544782) \end{array} & & & & & & & & & 
 \end{array}$$

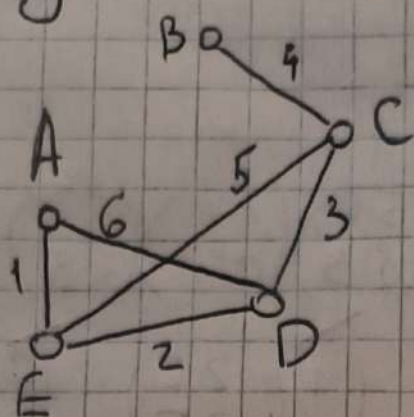
[2, 6]

[2, 3][4, 5][6]

$$\begin{array}{c}
 \begin{pmatrix} 27 & 42 \\ 14 & 24 \end{pmatrix} \begin{pmatrix} 17 & 26 \\ 14 & 35 \end{pmatrix} = \begin{pmatrix} 1047 & 2172 \\ 574 & 1204 \end{pmatrix} \\
 \begin{pmatrix} 1047 & 2172 \\ 574 & 1204 \end{pmatrix} \begin{pmatrix} 5 & 7 \\ 6 & 8 \end{pmatrix} = \begin{pmatrix} 18267 & 24705 \\ 10094 & 13650 \end{pmatrix}
 \end{array}$$



Задача 4.3



	A	B	C	D	E
A	0	$\infty$	$\infty$	6	1
B		0	4	$\infty$	$\infty$
C			0	3	5
D				0	2
E					0

$k=1$  репез A no upd

$k=2$  репез B no upd

$k=3$  репез C

$$BD = \min(BC + (D, \infty)) = 7 - \text{upd}$$

$$BE = \min(BC + (E, \infty)) = 9 - \text{upd}$$

$k=4$  репез D

$$AB = \min(AD + DB, \infty) = 13 - \text{upd}$$

$$AC = \min(AD + DC, \infty) = 9 - \text{upd}$$

$k=5$  репез E

$$AB = \min(AE + EB, 13) = 10 - \text{upd}$$

$$AC = \min(AE + EC, 9) = 6 - \text{upd}$$

$$AD = \min(AE + ED, 6) = 3 - \text{upd}$$



- example graph. processing

	A	B	C	D	E
A	0	10	6	3	1
B	10	0	4	7	9
C	6	4	0	5	5
D	3	7	5	0	2
E	1	9	5	2	0

Задача 2

	A	B	C	D	E	F	G	H	I	J
0	t	t	t	t	t	t	t	t	t	t
1	t	t	t	t	t	t	t	t	t	t
2	t	t	t	t	t	t	t	t	t	t
3	t	t	t	t	t	t	t	t	t	t
4	t	t	t	t	t	t	t	t	t	t
5	t	t	t	t	t	t	t	t	t	t
6	t	t	t	t	t	t	t	t	t	t
7	t	t	t	t	t	t	t	t	t	t
8	t	t	t	t	t	t	t	t	t	t
9	t	t	t	t	t	t	t	t	t	t
10	t	t	t	t	t	t	t	t	t	t
11	t	t	t	t	t	t	t	t	t	t

[B, C]  
[C, E]  
[E, F]  
[D, G, H, F]  
[D, G, H, K, J]  
[G, H, K, J]  
[H, K, J]  
[K, J, L]  
[J, L, I]  
[L, I]  
[I]  
[ ]

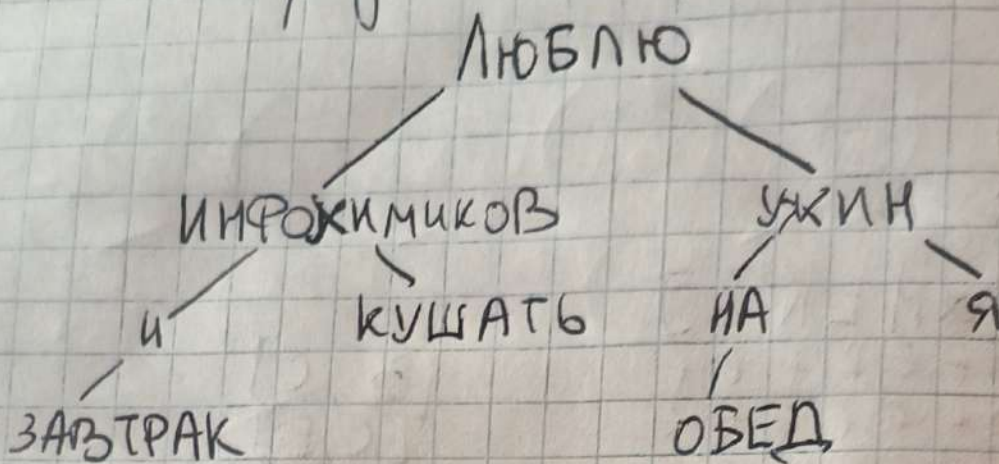
dist

0	0	∞	∞	∞	∞	∞	∞	∞	∞	∞
1	0	1	∞	∞	∞	∞	∞	∞	∞	∞
2	0	1	1	∞	∞	∞	∞	∞	∞	∞
3	0	1	1	∞	2	∞	∞	∞	∞	∞
4	0	1	1	∞	2	2	∞	∞	∞	∞
5	0	1	1	3	2	2	∞	∞	∞	∞
6	0	1	1	3	2	2	3	∞	∞	∞
7	0	1	1	3	2	2	3	3	∞	∞
8	0	1	1	3	2	2	3	3	∞	3
9	0	1	1	3	2	2	3	3	∞	3
10	0	1	1	3	2	2	3	3	4	3
11	0	1	1	3	2	2	3	3	4	3



# Задание 4

лексикон:



Подсчитаем:

я, и - 1

люблю - 5

инрохимков - 4

на - 2

кушать - 6

обед, уттик - 4

завтрак - 7

