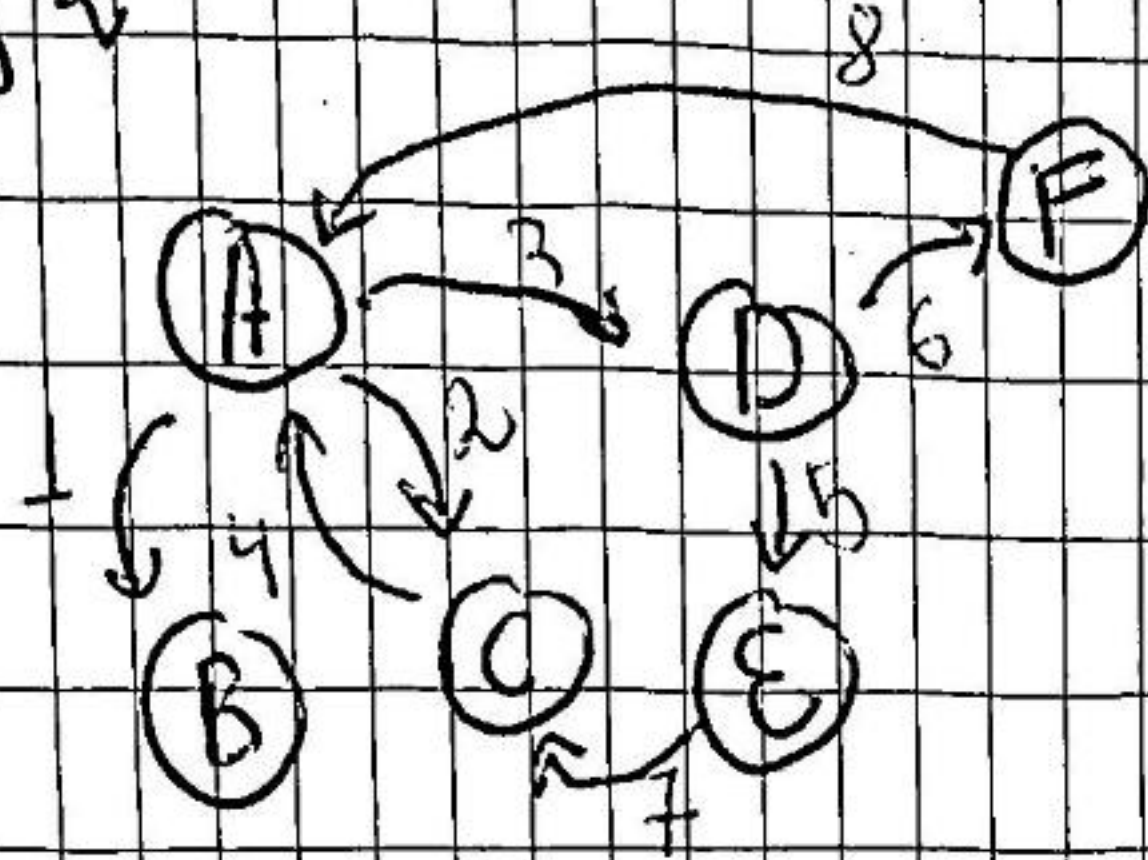
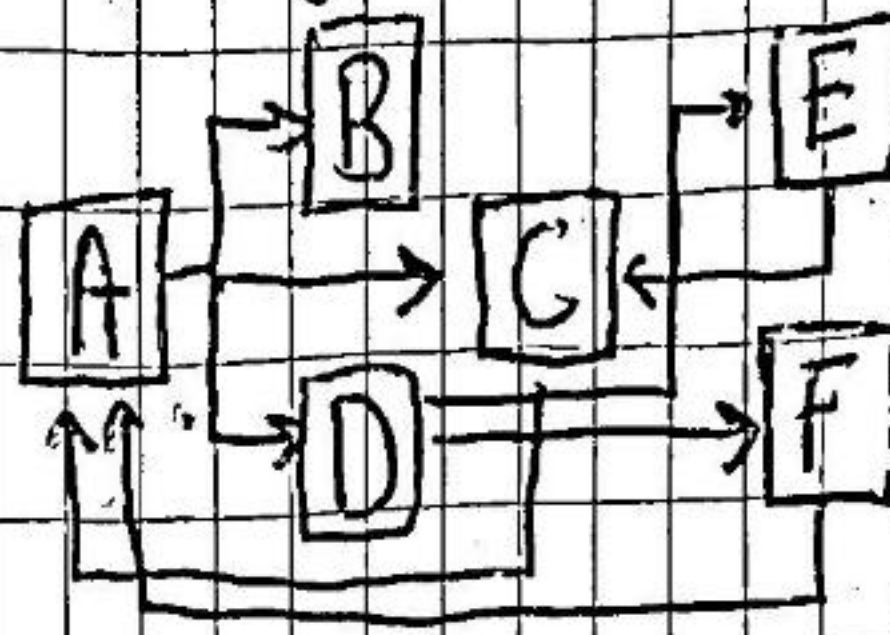


заг 2



а) стриж. сх-ма.



б) матри.

	A	B	C	D	E	F
A	0	1	1	1	0	0
B	0	0	0	0	0	0
C	1	0	0	0	0	0
D	0	0	0	0	1	1
E	0	0	1	0	0	0
F	1	0	0	0	0	0

в) матри. B

	1	2	3	4	5	6	7	8
A	1	1	1	-1	0	0	0	0
B	-1	0	0	0	0	0	0	0
C	0	1	0	-1	0	0	0	0
D	0	0	1	0	1	1	0	0
E	0	0	0	0	-1	0	1	0
F	0	0	0	0	0	-1	0	1

г) левы ины

$$\begin{aligned} G^{-1}(A) &= \{C, F\} \\ G^{-1}(B) &= \{A\} \\ G^{-1}(C) &= \{A, E\} \\ G^{-1}(D) &= \{A\} \\ G^{-1}(E) &= \{D\} \\ G^{-1}(F) &= \{A\} \end{aligned}$$

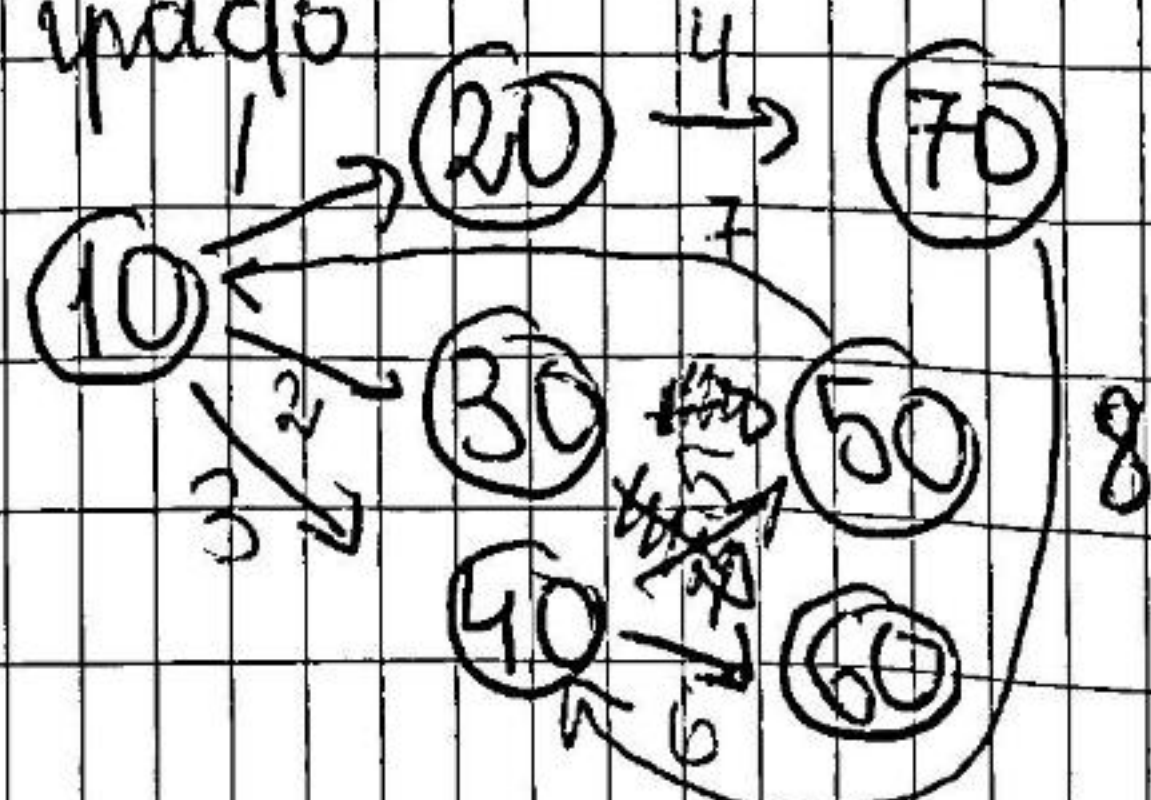
д) правы ины

$$\begin{aligned} G(A) &= \{B, C, D\} \\ G(B) &= \{A\} \\ G(C) &= \{A\} \\ G(D) &= \{E, F\} \\ G(E) &= \{C\} \\ G(F) &= \{A\} \end{aligned}$$

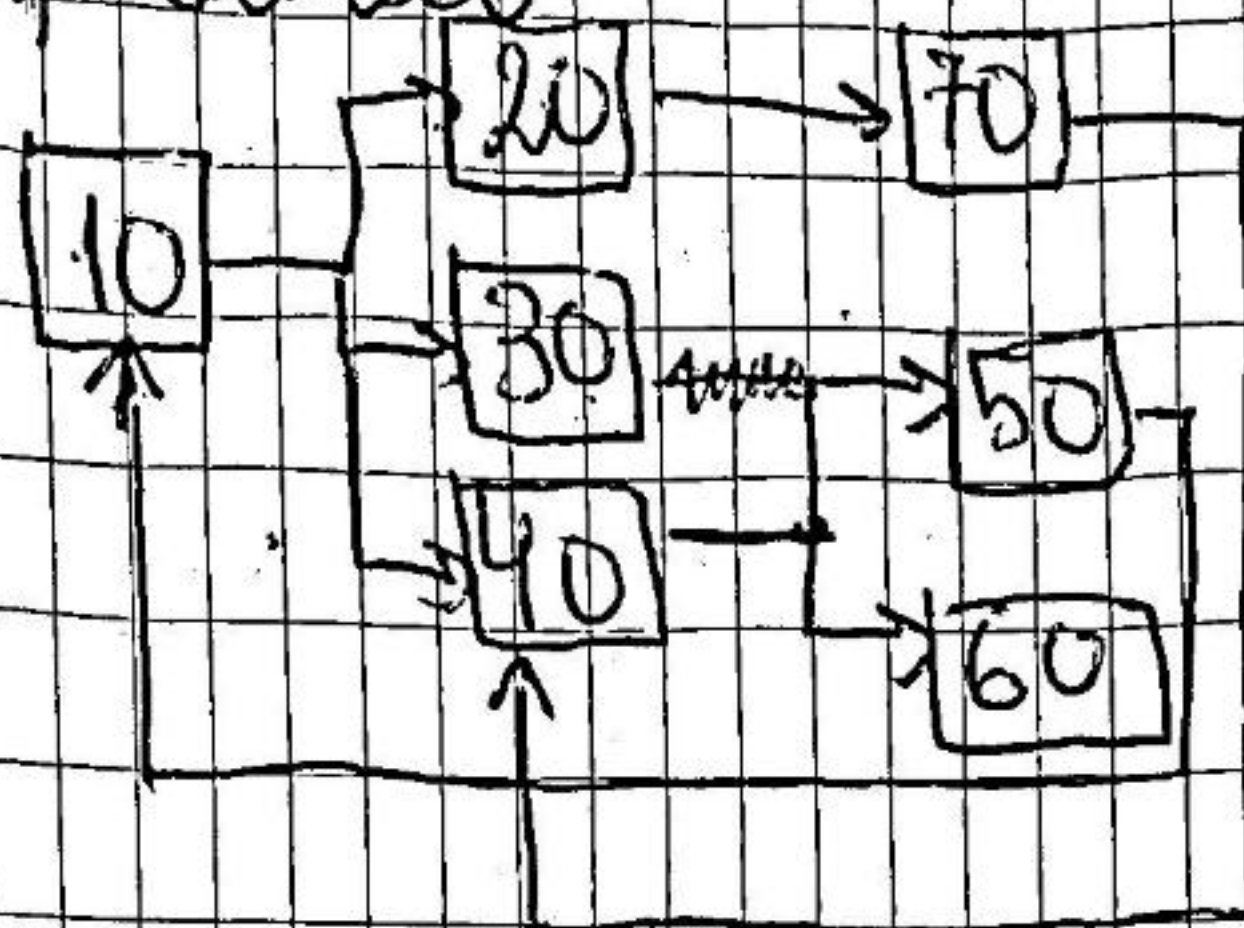
заг 3 Дески ины

$$\begin{aligned} G(10) &= \{20, 30, 40\} & G(70) &= \{40\} \\ G(20) &= \{70\} \\ G(30) &= \{0\} \\ G(40) &= \{50, 60\} \\ G(50) &= \{10\} \\ G(60) &= \{0\} \end{aligned}$$

а) графо



8) cmp. ce-ua



9) cmp. A

	10	20	30	40	50	60	70
10	1	1	1	1	0	0	0
20	0	0	0	0	0	0	1
30	0	0	0	0	0	0	0
40	0	0	0	0	1	1	0
50	1	0	0	0	0	0	0
60	0	0	0	0	0	0	0
70	0	0	0	1	0	0	0

10) cmp. B

	1	2	3	4	5	6	7	8
10	1	1	1	0	0	0	1	0
20	-1	0	0	1	0	0	0	0
30	0	-1	0	0	0	0	0	0
40	0	0	-1	0	1	1	0	-1
50	0	0	0	0	0	0	1	0
60	0	0	0	0	0	-1	0	0
70	0	0	0	-1	0	0	0	1

11) cmp. uku.

$$\begin{aligned}
 G^{-1}(10) &= \{50\} \\
 G^{-1}(20) &= \{10\} \\
 G^{-1}(30) &= \{10\} \\
 G^{-1}(40) &= \{10, 70\} \\
 G^{-1}(50) &= \{40\} \\
 G^{-1}(60) &= \{40\} \\
 G^{-1}(70) &= \{20\}
 \end{aligned}$$