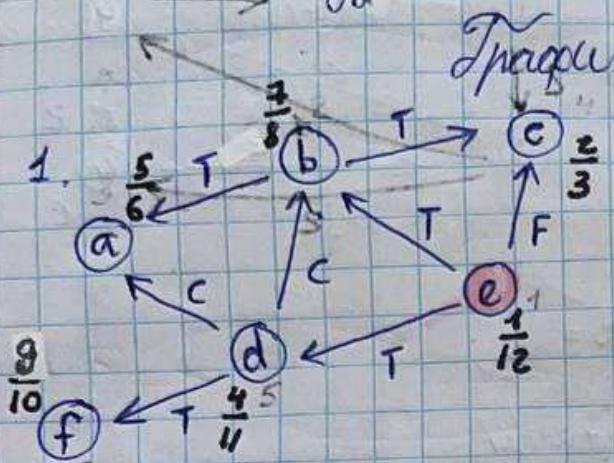
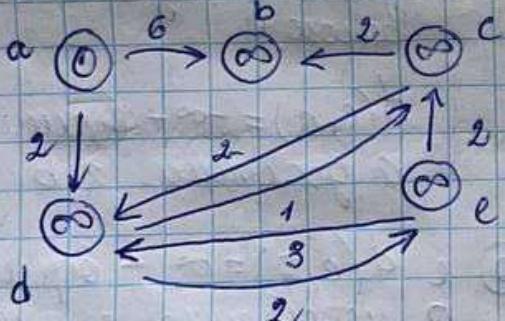
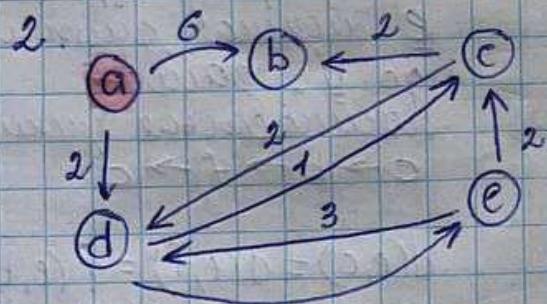


5 Модулна контролна работа №2 16.05.25



Монотонни корчувания  
за всички запълнения:  
 $e, d, f, b, c, a$

$T$  - ребра дърва  
 $C$  - перекръстие  
 $F$  - пръвче

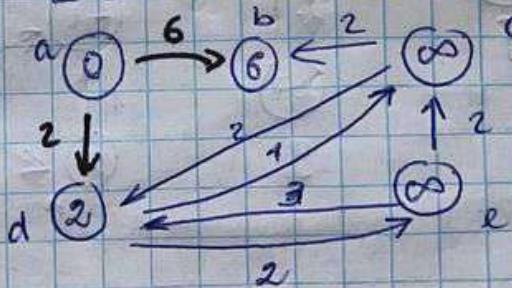


Одиг:

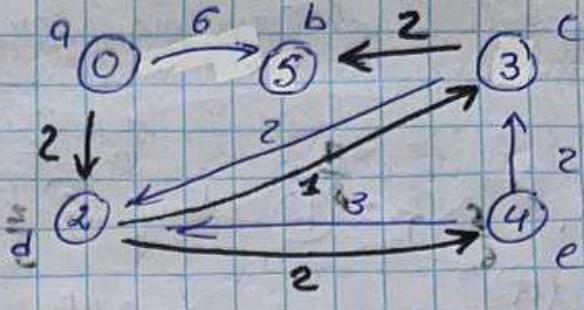
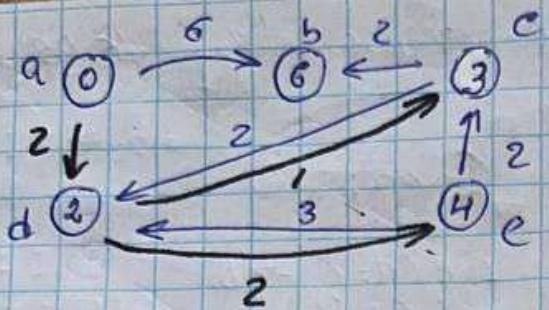
1.  $e(d=1) \rightarrow b$
2.  $b(d=2) \rightarrow a$
3.  $a(d=3, f=4) \rightarrow$  поверта  $b$   $b$
4.  $b \rightarrow c(d=5, f=6) \rightarrow$  поверта
5.  $b(f=7) \rightarrow$  поверта  $b$   $e$   $b$   $b$
6.  $e \rightarrow$  настъпил. съдиг  $c$  (black)  
→ класификация
7.  $e \rightarrow d(d=8) \rightarrow a, b$  (black)  $\rightarrow f$
8.  $f(d=9, f=10) \rightarrow$  поверта  $b$   $d$
9.  $d(f=11) \rightarrow$  поверта  $b$   $e$
10.  $e(f=12)$

$b$  - външни  $\rightarrow$   $z$  - запълни

5 ноги белици, rac			
1	$b(d)$	$e$	1
2	$b(d)$	$c$	2
3	$z(f)$	$c$	3
4	$b(d)$	$d$	4
5	$b(a)$	$a$	5
6	$z(f)$	$a$	6
7	$b(d)$	$b$	7
8	$z(f)$	$b$	8
9	$b(d)$	$f$	9
10	$z(f)$	$f$	10
11	$z(f)$	$d$	11
12	$z(f)$	$e$	12

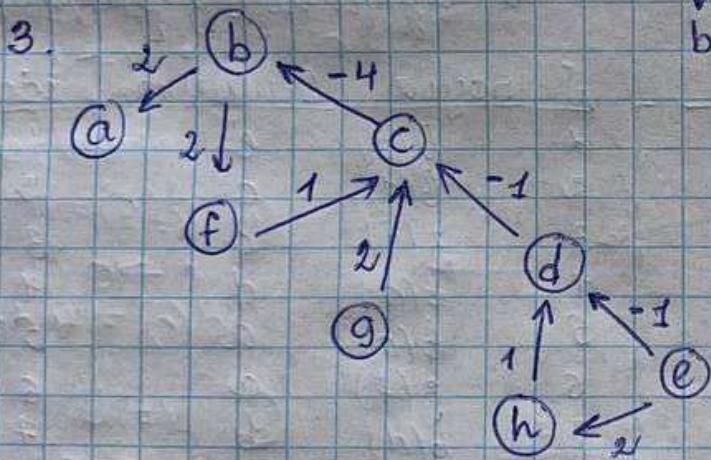
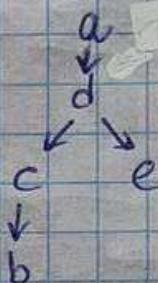


Собирне време,  $T/TC - 21$



1.  $d(a) = 0$
2.  $d(b) = 0 + 6 = 6$ ;  $d(d) = 0 + 2 = 2$
3.  $\min = d(d) = 2$
4.  $d(c) = 2 + 1 = 3$ ;  $d(e) = 2 + 2 = 4$
5. обираємо  $e$ , кращих членів немає.
6. обираємо  $b$ .

Підгрупа нередування:

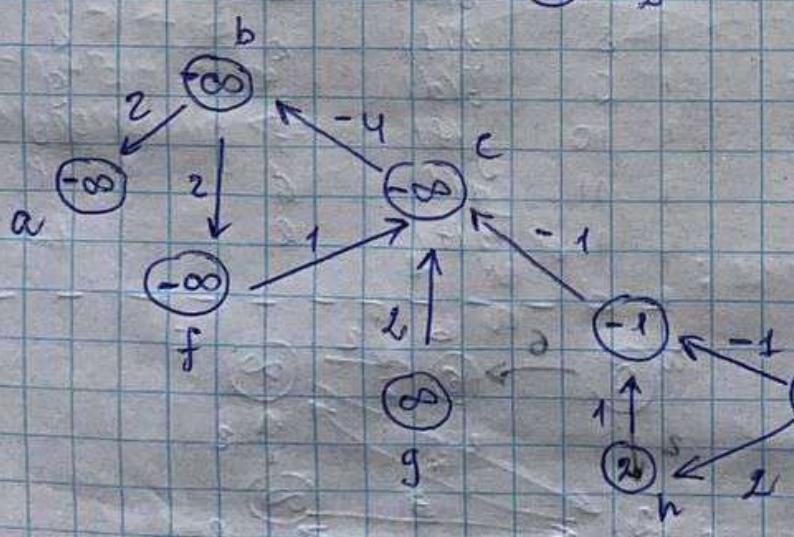


У графі з вершини  $e$  можна дійти до  $d$ , та від  $d$  - повертається у цикл:  $c \rightarrow b \rightarrow f \rightarrow c$

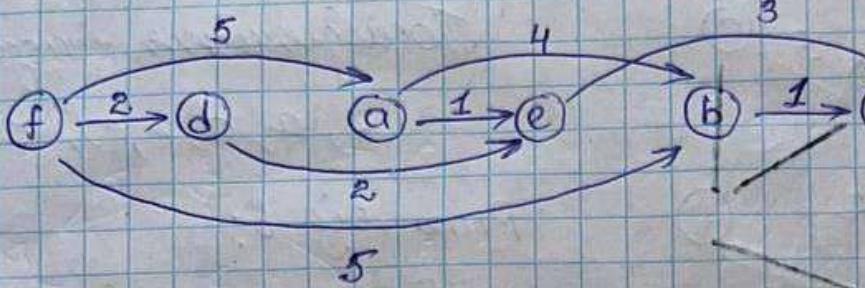
$d(e, c) = d(e, f) = \phi(e, b) = -\infty$ , оскільки  $e$  член з від'ємною вагою.

$d(e, a) = -\infty$  - вершина  $a$  недосяжна з  $b$

$d(e, g) = \infty$  - вершина  $g$  недосяжна з  $b$  через  $e$ .



4.



$$\textcircled{I} \quad u = f$$

$$f \rightarrow d:$$

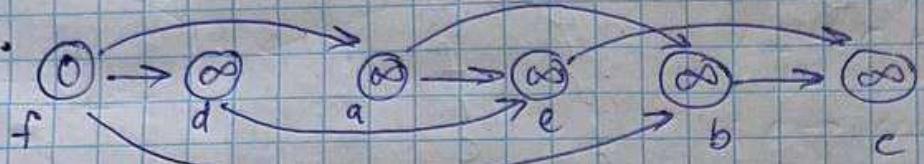
$$d(d) = 0 + 2 = 2$$

$$f \rightarrow a:$$

$$d(a) = 0 + 5 = 5$$

$$f \rightarrow b:$$

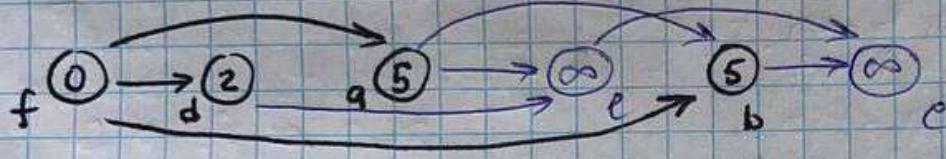
$$d(b) = 0 + 5 = 5$$



$$\textcircled{II} \quad u = d$$

$$d \rightarrow e:$$

$$d(e) = 2 + 2 = 4$$



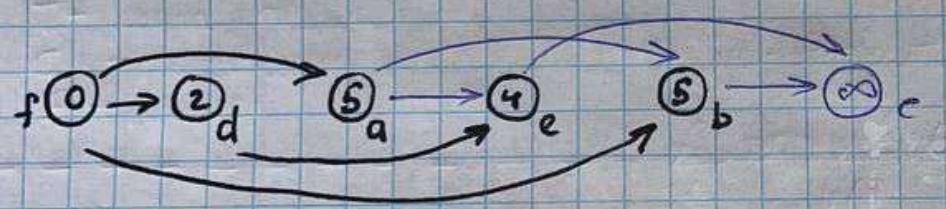
$$\textcircled{III} \quad u = a$$

$$a \rightarrow b:$$

$$5 + 4 = 9 > 5 \Rightarrow \text{не "однозначное"}$$

$$a \rightarrow e:$$

$$5 + 1 = 6 > 4 \Rightarrow \text{нигде не здание}$$



$$\textcircled{IV} \quad u = e$$

$$e \rightarrow c:$$

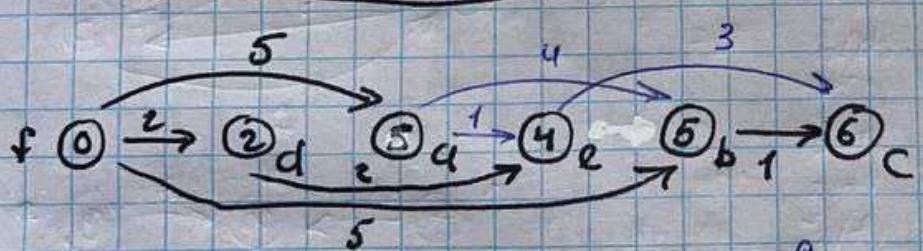
$$d(c) = 4 + 3 = 7$$

$$\textcircled{V} \quad u = b$$

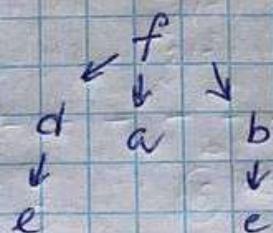
$$b \rightarrow c:$$

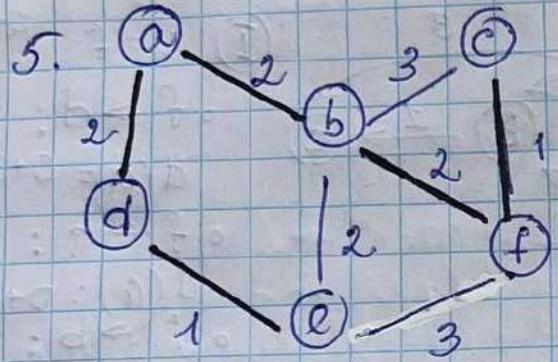
$$d(c) = 5 + 1 = 6 < 7$$

$\Rightarrow$  здание



Найти наименьшее:





Последовательное приединение  
b, a, d, e, f, c

Prim big b:

