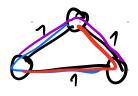
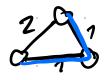
20.02.25

OCT. AEPEBBA (M MOBTOPEHUE)

AEPEBO-CBA3H, ALGUKA TPAP

OCTOBHOE AEPEBO TPAPA G- MOATPAPT (G), ABN. JER MUH. OCT. AEP. (Min. spanning tree, MST) - OCT. AEPEBO OBA. CB. MUHUM. TO CYMME BECOB

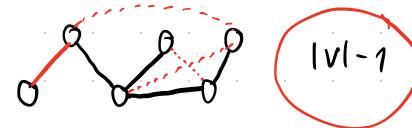




MST(G) = argmin Z We st.(G) e & E(S e & E (S.T.)

ANT. KPACKANA

1. COPT. PEBPA NO BECY: We, & We, & ...





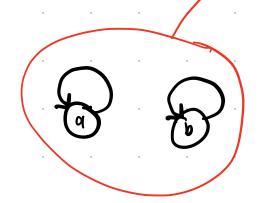
Disjoint-set (union-find, CUCTEMA HEREPECERARMUXCA MHO XECT B).



- 1) make_set(x)
- {x}
- 2) union(A, B)
- 3) find(x)

$$find(a) = Q$$

find (b) = 9

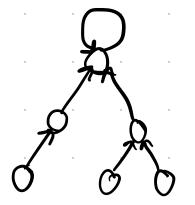






for e_{uv} in E_{-} sorted if (find(u)) = find(v):

union (u, v)



ANHAMUYECKOE PROFRAMMUROBAHUE

"5 ANOBCTBO CAABBEÜ"

N	N	N	12
N	N	4	N
N	P	N	N
P	N	N	\mathbf{N}

N-nosubus (next)

P- no 34 44 (previous)

T X



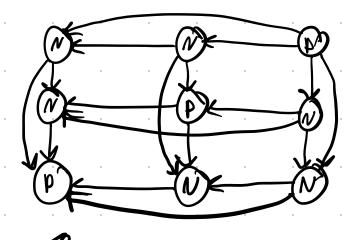
1) BHUTP WBAET BTO POUT

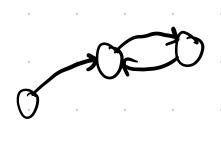
2) ETO CTPAT.: MPUXOQUTO OBPATHO HA QUAL.

3) 2 BAP.: 1. 3 x0A & P-1703. => N-1703.

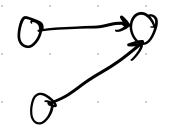
 $2. \frac{1}{3} = > P - 1703.$

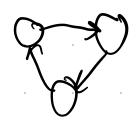
. <i>N</i>	N	Þ	
. N	۰ ۴	N	
b	N	Ň	٠



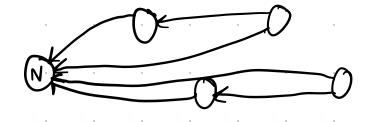


directed acyclic graph (DAG)
OPUEHTUP. ALLUKA. TPAD





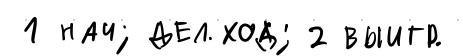




ANA ELLE HE DOMEY BEPLL U:

- 1. 3 euv: V-P-17034448 => U-N-17034448
- 2. otw. u P- no3 1444

CTAPT; 2 UTPOKA; BUILTP. TOT, KTO HE MOKET TOXOQUID



NPN	N	P	-FIEDEDHB	Education of the Control of the Cont
P	N	N		
N	b	N		

PACCTOAHUE PELAKTUPOBAHUA

$$\widetilde{W}_{i} = \operatorname{argmin} \mathcal{I}(w_{i}, w)$$
 $w \in W/\{w_{i}\}$

PACCTOAHUE PELAKTUPOBAHUA

(aka. PACCT. NEBEHWTERHA)

PACCT. PED. = MUN. HEOSX. YUC10 OTEPALYUN $\mathcal{F}(\cdot, \cdot)$ - PACCT.

$$d[0,0] = 0$$

$$d[i,j-1]+1$$

$$d[i-1,j]+1$$

$$d[i-1,j-1]+S_{ij}$$

$$S_{ij} = \begin{cases} 0, & X[i] = y[j] \\ 1, & X[i] \neq y[j] \end{cases}$$

d[i,i]= D(X[:i], Y[:i])

MPUMEP:

= 2(,)+0+1+0+1

SU

$$= \mathcal{S}(54,5) + 0 + 1 = \mathcal{S}(5,5) + 1 + 0 + 1 =$$