

	SELECT (A(S))	EXPLORE
	SELECT (S.K): //retims ken smallest amber	EXPLORE (6,4): // DFS on u
	pick random itvot v & S	visited[a] = Tre
	Sc = {ai ai e s, ai < v}	Dre Fuje court; work endock f
	5> < {a: a: \ \ 5, 9: \ \ \}	for y s.r. (u, v) E E:
	S= E- {ailai Es, aizv}	if visited (v) = false:
	if k \ S < : return SELECT (S < , k)	EXPLORE(6,V)
	esse if k ≤ Sc f S= ; reform v	portlu] & clock; clock & clock & 1
	else refun select (15, k-15c1-15=1)	
	DFS (0(1V1+1E1))	70RO 50R7
		topo e[]
	PFS(G): // DFS ON G	EXPLORE (G.u): 1/DFS on u
	bool Noted [A]	Misited (a) & True
	counter; dock & O	for ν 51. (α, ν) ΕΕ: 12. εκτικ. 1 (α) - εα(ε):
	for vev:	if visited (o) = false: EXPLORE (GIV)
	if visited for = false:	Topo. add (u)
	EXPLORE CG, V)	
	Lome = wont fl	DFS (G); return reverse (topo)
	BFS (O(IV(TIEI))	SCC
	BF5 (6.5):	SCC(G):
	dix(s) =0	DFS (GR) // sompres part order
	Yu = S. dirf [u] e a	Court El
	Thile Q dot empty:	for u EV in reverse port order!
	u = degine (Q)	if virted [u] = false!
	for all v st. lu, v) EE:	EXPLORE (GIU)
	17 dist[v] = w:	PAM'S AIGNISHM OCCUPTED LOGIN/OCETTUIGIN)
,	diff[v] = dist[u]+1	PREM (G, w):
	Dillogra O((VIFIEI) log (VI) / O(E+Nog (VI)	Y = 11 (12 + priority avecy)
	DITKSTRA (4. LIS)2	for each u EV: a.meet(1,0), from lu) Enul
	1 111 (8) ED	pide and redex ser
	Ve (vidisf(v)) tv	Ride (reuse key (5,0)
	White I not empty:	white x \le v -1: u \in deletem m(u).
	charce u au much momma girilu)	17 142: X = X 1) (frem (4) 14)}
	remove a from U (a = 0. delege Mix())	focall VEV M. Ca, V) GEZ
	for V (1. (u,v) ft: dixf(u) = mm (dixf(u), dixf(u) + } (u,v))	if reastill and w(u,v) < v.key():
	decreme key (v, direcv)	(liderentelley (r) w(u,v)) frensul = u.
	Derman Road (O(VI)EI)	Knskal
	DETIMAN-RORD (V. EIS) -	KRUSKAL (G,w):
	FOT VENC GISP [V] ED PRE[U] ENVI	HUEVI Makesetu);
	107(s) to	XESS. Sortiedges E by ov
	for (V)-1: for (u,v,w) FE: doct(v)=101(u)fir	tor (u,v) & E: If find (u) F, find (1):
	if diop [u) + W < diop [v): score + u	add (u,v) to X; union (u,v)
,		UPDS MAK(i) DS Incom Delpun Decrement (orally dense)
	notion dist if re	Zdepth of the below Rivary olimpy) ollmb) ollow) ollow) ollows