PETPO CHEKSHA

HAAALY MG LITEP. AA1.

 $-c_{S}Mh_{i}a_{H}C$ $\sum_{j=1}^{i=1} P_{j} = 2n-1$ $\sum_{j=1}^{i=1} \theta(y)$

- AHARLY HON OWIL 3 - TBACAME

- AMARLY MU ORLZ. 30 COPTLABORE

MH REPENS

OFFE 1 ... n] i, i & 21 ... n?

ici ^ arrii] > arrii]

Anz 30 copy upone

- · Brewlfo Clomhoct
- · POCIPUHLI BANG CHUMHOGT
- · GCTUMUBOCT / CTOULN MOCT

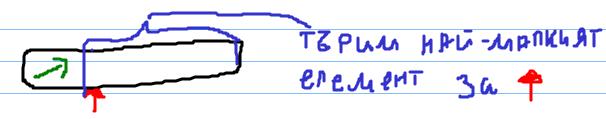
M CTUY HO MEXYPHETO Procip. Chumhoct 8 (1) orr [4...n] —) JU(i) - Ungencot na i-TLA exement MOLAG. Orr = [5,6,2] -> [2,5,6] JL(1) = 2 TT L 31 = 1 JI [2] = 3 Lye KA3bane, 4e GAZOPHIBM BO CUPTHPUHE E YCTOGHUB, CKO Vifief1...n) icj^arrei] = arrei] => えいく でいけ 2 2 -) [22] 3APAJBO OTHO CHTEINATO hopegsu

Uby mes CTS gen Th B Lyrca no 21 HA LNNB, OH, TPSha 1) Cupthpune no O.H. 2) you 4460 Copthpane no PPyra Une, of, pronp WO D. H CUPTY DRN4 CO 10. 10 () EUPTL PANY to D.H. Meroger HA WEXYPUETO Y LTOUTHUB NW e? ··· 2 2 ··· SWAP? AFFET > arreit4] · **PP**የ5ቲ

COPTHPANE C MPAKO CEPEKSUA (Selection Sort)

ANATUS:

- 1) BPENE CRUMMOGO: () (n²)
- 2) pocie. Cromhocz (1)
- 3) YCTULLINGOCT: He!



1) Kuū-goszp: H(n²)

cregen C1. : ALn2)

 $\mu_{\sigma}\bar{\mu}_{-} = \mu_{\sigma} = \mu_{\sigma$

[YL enemerts]

-) [n-1 every

1 सारकरात

2)	Procepon a bero commocs
_	$\Theta(1)$
3)	YCTUT 44 B OCT: 18
	2131 -> 12 <u>3</u> 3
	Swap Upwalp
	Bregumer 60?
1.	MUHUMONEN SPUE PHYMAM/5WCP-UBE
Do	MOWHO: ApANG HG GROPHTGLO
	COPTUPURE Upez GAZLBUNE
	(In sertium Sort)
	Applyzo vy e ruguden 401
	atohiza ha neroza ha nexitatio.

KANGA E BPENEBUTA

CHUM MOCT HO CHEGHIA CHIVANIA

N-> 2 -> 1

Log(n)

C(log(n))

 $\bigcap_{i} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{j} \bigcap_{j} \bigcap_{j} \bigcap_{i} \bigcap_{j} \bigcap_{j$

Aug n e CTerm Ho 2

10000000 3

111111000

3043 KARBU & CHOMMUTON HO ANLOWN TONG F

$$\begin{array}{c} R = \frac{1}{2} \\ R = \frac{1}{$$

· jogosho HA AHAJUJU 120 godaline na eneugn bab blurop

· Pruner 30 amopinzypana chupihacs L) g o sa bonne pa enthent b Utpho-Uepbero gapbo AHANUZ HA PEKGPCHEHH ANZOPWIM · Pewspenihu yp-9 00 01.02 -- Un CL8 = 1 Can = Can-1+ 3 Can-2 · pevulane pa per. yp-9 1) HARYYKBOHE + GOKAJBOHE 2) PH3BLBanc 3) Mergya C Xapautéphothytor yp-e 4) Master th.

5) 9 P576 me 7036

Pewelle He Gereson Toyhota He Hu Witereson Toyhota Pewelle Ho Ge-to, or Helubuta Ochmototuka

3494) CHUMHOUT HO anzopuisma?

1) (3cTabgae Per yp-e) T(r) = T(n-1) + T(n-2) + 12) Pewf BALE 20 T(n) - T(n-1) - T(n-2) = 1 $\lambda^2 - \lambda - 1$ $P(n) \cdot d^n$ $n^0 \cdot 1^n$

$$\lambda_{1} = \frac{1 - \sqrt{5}}{2} \quad \lambda_{2} = \frac{1 + \sqrt{5}}{2} \quad \lambda_{3} = \frac{1 + \sqrt{5}}{2} \quad \lambda_{4} = \frac{1 + \sqrt{5}}{2} \quad \lambda_{5} = \frac{1 + \sqrt{5}}$$

e spagi bupube Ch who lite yoph or 0 (n) = 1(n-1)

$$T(n) = An 1^{n} + 3n^{n} 1^{n}$$

$$= A.1 + B.N = U(n)$$

$$30y 6$$

$$T(n) = 3T(n-1) + 4T(n-2) + 4$$

$$T(n) = 3T(n-1) - 4T(n-2) = 1$$

$$\lambda^{2} - 3\lambda - 4 \qquad \qquad N^{0}. 1^{n}$$

$$\lambda = -1 \quad \lambda_{2} = 4 \qquad \qquad 411...$$

$$1 - 1, 4 |_{M}$$

$$1 - 1, 4 |_{M}$$

$$T(n) = A(-1)^{n} + B 1^{n} + U^{n}$$

$$G(4^{n})$$

$$T(n) = T(n-1) + T(n-2) + 1$$

$$E = T(n-1) + T(n-2) + 1$$

$$E$$

$$I(n) - 2I(n-1) = 0$$

$$\tau(h) = \mu \cdot 2^n = > \theta(2^n)$$

Chumholma no funchely (n, n) НА ВСЯКА СТЕПКИ ИМАЦЕ ТОЧНО ЯВЕ
РЕКУРСИВНИ ИЗВИНЬСИИЯ.
НА ВСЯКО РЕКУРСИВНО ИЗВИНЬСИНО НЕМАЛЯБАНЬ
ТОЧНО ЕДИН ОТ ЯВЯТЯ ПАРАМЕТ В РО
ЯЗНОТО Е КОГАТО ЯВЯТЯ ПАРАМЕТ ЗРА СА О · HA LC91KA • 92 HOTO e $K(0'0) = \Theta(4)$ R(0, j) = 2 R(0, j-1)+1 -> 1/4)= 2T/4-1)+1 V R |1,0) = 2 R | j-1,0) +1 -> T(K)= 2T(K-1)+1 V R(1,j) = R(1-4,j)+ た(1,j-1)+1+1+1+1+1 MONATAME K = i+j. 十(K)=2J(K-1)+1 T(k)-1T(k-1) + 1λ= 2 121m 11,2)M T(K)= A1K + B.Z. + (2K).

function (n, n) -) i+i=2n (12) =

309 10
$$T(0)=1$$

 $T(n-1)+2^n$
 $T(n-2)+2^{n-1}$
 $T(n-3)+2^{n-2}$
 $T(0)+2^1$
 $T(0)+2^1$
 $T(0)+2^1$
 $T(0)+2^1$
 $T(0)+2^1$
 $T(0)+2^1$
 $T(0)+2^1$
 $T(0)+2^{n-1}$
 $T(0)+$