Alageitm:

.evkl:dov ·see}evanje

·wejanjo

· simpletes algeriten Ze brearno program: anyt · algeritm; ze proveranje prastevilnesti

· show wantow algeritan se falutorizacjo

Kljudne lestnædi algeritmen - nefononost . kononost . vhad , izhad asinlevtort

ko; memo alagoiten se lahke upiarme 1) de jo janden 2) dacorne ; z piadarska zahternast 3) Al; je aptimelen

Fibonacijaa Aevila $F_0=0 \quad F_n=1$ $F_n=\overline{F_{n-1}}+\overline{F_{n-2}}$

FUNCTION r Fib (n) 1 ifn=a:returno if n=1: relien 1 1 Return: r Fib (n-1) trFib(n-2) 3+t(n-1)+t(n-2) 1+T(n-1) 1+T(n-2) Casome Zehternost? 1 T(0) = 1 T(n)=? T(1)=2 $T(n) = T(n-1)+T(n-2)+3 \gtrsim F_n = \frac{\varphi^n + \varphi^n}{\sqrt{6}}$ T(n) > 4n ~ Q(1,6n) P= 1+55 2 4= 1-15 INTeraktion; day;tem Function : Fib(n) if n=0:returo if n=1 return 1 create an array flo..., n] f[0] =0 f[1] =1 FOR 1=2 ... n PDJ = fr: -17+1[:-2]

return fort

Do 16. stani udiply

Peli m Vladej

Razbijamo problem na manjše podprobleme

1) Rodyme y la

2) Mustro resmo 1 Km 2 drus - 5/4e

 $x = \left[x_{L} \mid x_{*} \right] = 2^{\frac{n}{2}} x_{L} + x_{D}$

Y= [7, 1/2] = 2 2 4, +4,3

 $\times y = \left(2^{\frac{n}{2}} \times_{n} + x_{p}\right) \left(2^{\frac{n}{2}} y_{c} + y_{p}\right)$ $2^{n} \times_{c} y_{c} + 2^{\frac{n}{2}} \left(x_{c} y_{p} + y_{c} \times_{p}\right) + x_{p} y_{p}\right)$

a = 4b = 2 $u > 2 \Rightarrow O(n^{1-3}24) = O(n^{2})$ heratous algoren