ALGORITMA ANALIZI
FINAL CALISMA
$Ex : 5x^3 + 2x^2 + 3 < c g(x)$
$ 5x^{3}+2x^{2}+3 < 5x^{3} + 2x^{3} + 3x^{3} $ $ 5x^{3}+2x^{2}+3 < 5x^{3} + 2x^{3} + 3x^{3} $ $ 5x^{3}+2x^{2}+3 < 5x^{3} + 2x^{3} + 3x^{3} $ $ 5x^{3}+2x^{2}+3 < 5x^{3} + 2x^{3} + 3x^{3} $ $ 5x^{3}+2x^{2}+3 < 5x^{3} + 2x^{3} + 3x^{3} $
$f(x) \le 10 \cdot x^3 \implies c = 10 \qquad O(x^3) \qquad 5.x^3 \qquad g'(x) = x^3$
$g(x) = x^3$
$E_{x}: n(n+1), c_{0}(x) = n^{2} + n(n^{2} + n^{2}) n(n^{2} + n^{2})$
$\underline{E} \times : \underline{n} \cdot (\underline{n} + 1) (\underline{c} \cdot \underline{g} (x) =) \underline{n} + \underline{n} \cdot (\underline{n} + 1) = \underline{n} \cdot \underline{n} + \underline{n} + \underline{n} \cdot \underline{n} + \underline{n} \cdot \underline{n} + \underline{n} + \underline{n} \cdot \underline{n} + \underline{n} + \underline{n} \cdot \underline{n} + \underline{n} $
2
Tahmin var.
Approximate Solving = 40 parametre yok, Jada degiskenlenn ortalaması, Tahmin var.
Exact Solving = Maternatiksel parmul ile ipade edilir.
Algoritmolor nasıl tasarlanır?
- Herative mi Recursive mi karar verilir.
- Approximate solving mi exact solving mi karar verilir.
Algoritmanin Dognulugurun Espati
- Har durinda dazru sonin vermeli
- Algoritmonin verdigi degerler ispat edilmeli (Matris formunda)
- Higoritmonin verdigi dego to Expressional
La College Korn many - Donalyan ispatlanyar m
! Hoto payı düzük olmalı - Parametre verilmeli - Ortoloma - Kesin sonuc var mı? - Doğruluğu ispatlanıyar m
Sponning Tree
a la la la constante districtione
x Tree has no cycles. x Spanning button kaselere lighter cycle dissillations
111 The I had socilable the beach upk
Prim Algoritmas = Loop durumuna bakılır. The vortux bir kez secilmeli, Yol hesabi yok
Brule Force
- Problem stolement & Definitions of the concepts (Durum & Tonim) - Ex: Bubble Sort - Selection Sort
- Problem stolement & Definitions of the south
Selection Sort
Minimum degen bul, basa getir: for i + 0 to n-2 do
For j + i+1 to n-1 do
t → nim Cnim A > Ct J A i

Bubble Sort					
- Ilk indisten basla , b	ir sonraki indi	ten bijg	kse yer de	pistir: fo	or i+O to n-2 do
100 100 100 100 100 100 100 100 100 100		-			for j + 0 to n-2-i do
		30	01433		[c] A> [mc] A [j]
			Scalus.		swap ALJJ and
	7 1 1	÷ 1 0	Ť L 2	+ 4 11	
Ex ;		Job 2	job 3	3004	<1,2,3,4>=1+2+4+6
Person 1	9		3	7	(1/2/3/4/
Person 2		4	X	8	
Person 3			9	И	
Person 4	7	6	9	4	The State of the S
nsertion Sort					
- Ikili kontral yapar,	his consoli i	adicles h	tisted was a	losisticis k	cask on solo nelir
- Ikili Kontrol Yapa	DIC SOLICIKI	ouzier b	alone do c	egistrici	NOON OF SOME OF ME
or i←1 to n-1	do				
U ← A[i]					
j ← i-1					
while j > 0		211 da			
A [j+1]				5. See 1	and religion to the land of the
j ← j - 1				Landon	American American American American
A[j+1]+U					
) Find the big-O	entation of	- the a	loogithon ai	ven hu	r(a) = 100 a + 5
Tring the dig-0	101011011 4		9	3	
) For all n 7,5		b) For all	n>,1	
	0001 100)
000 + 5 < 100 0	+0		1000+	5 11	00 n + 5n
00 01 5 (101)			1000	+5 110)5n
0 113 1011	\		10011	2(1) - (O(n)
0(X) = U(U)		()() = (O(n) 105
4					105



