

Kauno technologijos universitetas

Informatikos fakultetas, programų inžinerijos katedra

P170B400 Algoritmų sudarymas ir analizė

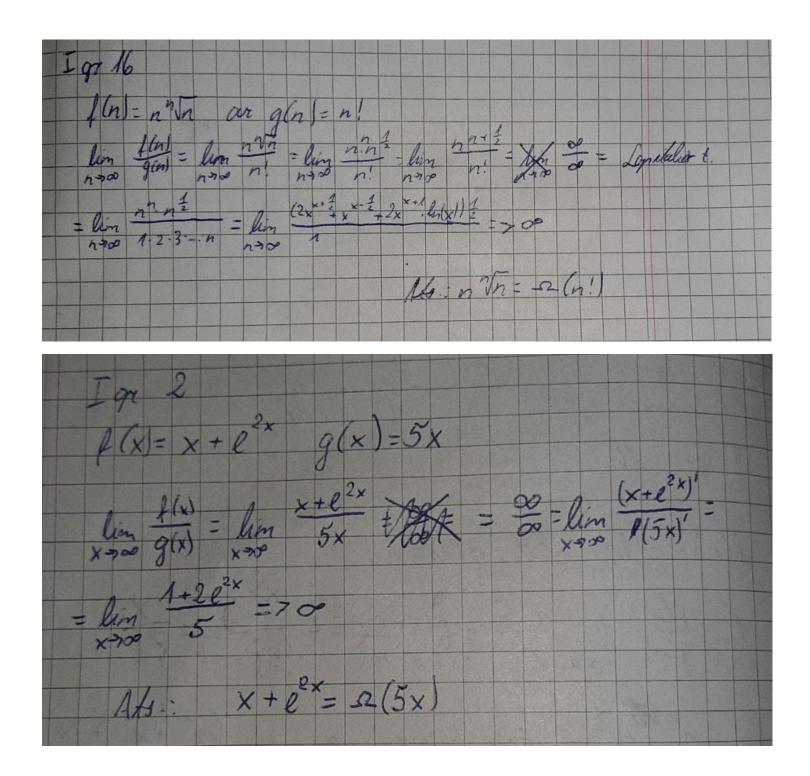
Namų darbai

Arnas Švenčionis

Projekto autorius

IFF-8/11

Akademinė grupė



T(n)=T(=)+T(=)+n4 II gr 12 T(3)= T(2)+ (2) でまり、「(学) T(=)=T(==+T(==++(==)= T(32)=T(432)+T(53)+(32)4 (3.4) (3.4) 4 (m) 4 (32) T(34) = T(43) + T(43) + (43) 4 T(2) = T(23) + T(32) + (22) (32) 34h = 1 n= 81h h= logsn (3/2)4 1/h = 1 n = 256 h ly 256 (256) = leg 256 (n') h 8 h = lege (n) h = 2 ly (n) (nh + (h) - n4 (e) + 256) = n4 34 + 44) 30 + 2 m4 + n4 = n4 (38 + 124 + 40) = n4 (36 + 40) = n4 (34 + 40) 5= \(\frac{1}{9} = \frac{1}{1-9} \) T(n) = T(2) + T(3)+2/2 = 1 (34 + 44) + 1 4 (34+ 44) + .. + u= = \(\frac{1}{2} \land \frac{1}{34} + \frac{1}{34} \right| = \land \frac{1}{1 - \left(\frac{1}{34} + \frac{1}{44}\right)} = O(\frac{1}{12})

II go 19

T(n) - 64T(2) - n' leg n a=64; l=8; len = n' leg n

l(n) = 0 (n leg n - n leg n

oli leg n = - n leg n

1V 9x 11	
A, 50,	× 15 7 0
A. 15	× 40 6 2000 0
A. 40	x 35 5 60 000 20000 0
A. 35	× 40 4 11600 52500 35000 0
A5 40	× 25 3 18000 132000 112000 56000 0
	× 20 2 204000144000127000 90000 21000 0
	x 4 0 1 310000245000 220000 170000 100000 30000 O Az
A4 X	
	7654341
0 -0	A
7	× 15 } A1 A2 = 50 × 15 × 40 = 30000
A2 15	× 40 57 A2- A3= 15 × 40 × 35= 821 000 A4
A3 40	× 35 2 A3. A4 = 40 × 35 × 40 = 56 000 A3
A. 35	× 40 57 35 44 - 40 35 10 15 - 35 000 (44)
1.60	× 25) 14:13: 35×60×25: 35 000 (A4)
9	9 1 A = 90 ×23 ×20 = 20 000 101
A6 25	x 20 3 A6 Ax = 25 × 20 × 40 = 20 000 A4
Az 20	× 40 A

A 50 × 15	000
(A) 15 x 40 YA x (A, x A3) = 50x 15x 35 + 21000 = 47	250
A, 90 × 35	max 100 000
TA 50 x 15	20000
A. 15 × 40 A. (H. × A.) = 50 × 40 × 35 + 30000 = 10	70002
A3 40 x 35)	
42 15 × 40)	
(A) 40 > 36 (A) (A) × (A) = 15 × 40 × 40 + 56 000 = 50 000	
4. 35 × 40)	Emax 80000
11 15 × 407	
A1 40 × 35 (A4(A2×A3) = 1151×351×40+21000=1200	00 /
4. 35 × 40)	
4, 40 x 35)	
(H4 35 × 40 × A3× (A4× A3) = 40 × 35 × 25 + 35000 = 70000)	
As 40 × 25	max 1/12 000
1A3 40 x 35	
A 35 × 40 >Asx (Ax Au) = 40x 40x 35 + 56000 = 12000	
Az 40 x 35 J	

35 x 40 A. x(A3 x A4 x A5) = 15, 40,25 + 112000 = 127000 11 40 x 25 y Ax xA5 x A6 = 35 x 40 x 20 + 20 000 = 48000 (1) x Ax) x (14x 1/5)= 15x 35 x 25 + 21000 + 35000=69,125 (max 127000 (A) (Az A) x A) x A = 15 x 50 x 15 + 10000 = 95000 25 x20 (A2 > 500 max 5250 1 × (A4 x A5 x A6) = 40 x 35 x 20 + 52500 = 80 500 (A4) 35 x 40 -Aox(AxxAs) = 35x25x20 + 35000=52500 Az (Az x A4) x (H 5 x Ad) = 40 x 40 x 20 + 56000 + 20000 = 108000 > max 132000 1 15/ 40 x 25 ax A4 x A5) × A6 = 40 x 25 x 20 + 12000 = 132000 25 × 20 Ay x (As x Ac x Az) = 35 x 40 x 40 + 60000 = 116000 Ac 40 x 25 (A, x 13 x (Aq x Ag) = 35 x 25 x 40 + 35000 + 20000 - 90000 } max 116000 1A6 25x 20 A5x(A6 x A2) = 40x 25x 40 + 20000 = 60000 Mx A5x A6) x A7 = 35 x 20 x 40 + 52500 = 80 500 Az 20 x 40 -Azx (Ax x A5 x A6 x A x) = 40 x 35 x 40 + M6000=172000 max 60000 1 Az 40 x 25 (Ax A4) (A5 x A6 x A7) = 40 x 40 x 40 + 56000 + 60000 = 180000 max 180000 Ad 25 x 20 (Axx (Axx AG) = 40 x 20 x 40 + 20000 = 52000 (A3 × 14 × A5) × (A6 × A2) = 40 × 25 × 40 + 12000 + 20000 = 12000 (A3 x A4 x A5 x A6) x A7 = 40 x 20 x 40 + 132000 = 164000 Az 20×40) Az > (A3 x A4 x A5 x A6) = 15 x 40 x 20+ 132000 = 144000 Ay A, XA, XA, XA) = 50 x 15 x 40 + 80 000 = 4000 (A) x A x (A4 x A5 x Ac) = 15 x 35 x 20 + 21000 + 52500 = 84000 (Ax Az)x(Az x Hy) = 50 x 40 x 40 + 30 000 + 56000 = 166000 > max 10000 max 144000 (A, × Ay × Ay × (Ax × A6) = 15 × 40 × 20 + 80000 + 20000 = 112000 (Ax Ax H3x A4 = 50x 35x 40+100 000 = 110000 (A3 x A3 x A4 x A5 x A6 = 15 x 25 x 20 + 127000 = 134600

A, -(1, x A3 x A4 x A5) = 50x 15x 25 + 127000 = 145 750 (Ax A) > (Az x H4x A5)= 50 x 40 x 25 + 30 000+ 112000= 192 000 Axe (11 x 12 x 12 x 14 x 14)= 50 x 35 x 25 +100000 + 35000 =118750 Ax (Ax Ax A, x A) x A5 = 50 x 40 x 25 + 110000 = 220000 Ax (A) A, x(A2 x A3 x A4 x A5 x A6)=50x15x20+144000=159000 TA (A, x A) x (A3 x A4 x A5 x A6 = 50x 40x 20+30000+12000=202000 (Axx Az x Axx (A4 x A5 x A = 50 x 35 x 20 + 20000 + 52500 = 187500) (Ax Az x Az x Az x (A5 x Az)=50 x 40 x 20+170000 + 20000=20000 (A+ x A+ x A3 x A4 x H5) x A6=50x25x20+220000 = 245000 (A, x A) x (A, x A) x (H, x A) A2 x (A3 x A4 x A5 x A6 x Az = 15 x 40 x 40 + 180000 = 204000 (Az x Ax) x A4 x A5 x A6 x A2 = 15 x 35 x 40 +21000+116000=158000 (Az x Az x Az) x (Az x Az x Az = 15 x 40 x 40 + 80000 + 60000 = 164000 } (A, × A3, × A4, × A5) × (A6 × A2)=15 × 25 × 40 + 127000+20000-162000 (Az x Az x A4 x A5 x A6) x Az = 15x 20 x 40 + 144000=156000

(A₁ × A₂ × A₃ × A₄ × A₅ × A₆ × A₇) = 50 × 15 × 10 + 20 × 000 = 23 × 000

(A₁ × A₂ × A₃ × (A₄ × A₅ × A₆ × A₇) = 50 × 35 × 40 + 100000 = 290000

(A₁ × A₂ × A₃ × (A₄ × A₅ × A₆ × A₇) = 50 × 35 × 40 + 100000 + 100000 = 286 000

(A₁ × A₂ × A₃ × A₄ × (A₅ × A₅ × A₇) = 50 × 40 × 40 + 140000 + 60000 = 340 000

(A₁ × A₂ × A₃ × A₄ × A₅ × A₆) × (A₇ = 50 × 25 × 40 + 22 × 20000 + 20000 = 290 000

(A₁ × A₂ × A₃ × A₄ × A₅ × A₆) × (A₇ = 50 × 20 × 40 + 24 5 000 = 28 5 000)