(1) (2,3,4,5,15,26,27,36,36,44,46,47 19,450,48,43,33,25,1) (2,3,4,5,15,19),26,27,36,38,44,46,47, (2,3,4,5,15,19,26,27,36,38,44,46, 14) (2,3,4,5,15,19,26,27,36,38,44,46,47, 148,450,43,33,25,1) (2,3,4,5,15,19,26,27,36,38,43,44,46 47, 48, 450, 33, 25.1) (2,3,4,5,15,19,26,27,33,36,38,43, 44,46,47,48.\$(6,25.1) (2,3,4,5,15,19, 28, 26, 27, 33, 36, 38, 43 44, 46, 47, 48, \$50, 1) 18) (1,2,3,4,5,15,19,28,26,27,33,36, 38, 43, 44, 46, 47, 48, \$50)

Sudo code	Date:
for $J=2$ to n	CI
$\frac{1}{2}$ Key = $A[J]$	Cz
i = i - 1	Сч
While (170) and (A[]>Key)	Cr
3 A[i+1] - A[i]	<u>C6</u>
i=i-1	C 1
A[i+1]= Key;	C8
3	
J= 1,2,n	
Cost time complexity	
c,	9
(n-1)	
$-c_4$ $(n-1)$	
cs A	
C6 B	<u> </u>
C7	
(n-1)	
=) Best case (an is softed)	
$T(n) = (C_1 + C_2 + C_4 + C_5 + C_8)_n - (C_2 + C_4 + C_4 + C_6)_n$	5+68)
L: 9	Ь
= an + b	
I(n) = O(n)	

prost case	Date:
Thomas Consc	/ / n.i
1(0)=C+A+C2 +-Cs	$\binom{n-1}{2} + \binom{c_4(n-1)}{+ \binom{c_5(n-1)}{2}} + \binom{n+1}{2} + \binom{n(n-1)}{2} + \binom{n(n-1)}{2} + \binom{n(n-1)}{2}$
$-Qn^2$	tbn+6
	(Λ^2)
=> Crug case	
V	$\mathcal{D}(\mathbf{v}_{\mathbf{r}})$

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