D + 4	
Part 4.	1 1th stre 16 is the whole any
1. The worst case for an arm	ey with stre 16 is the whole amy tern. In this way, every two up. 18x8 18x8 18x8 18x8 18x8 18x8
; with decedent sorting per	pein. In
ement of the array as mirked	16 - 16 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
1 In morel-up-was	Plant : (16 - 120
There	1828 : Ct6 = 16! = 120
2. brutal force: O(n2)	Two nestell wolf
2. brutal force:	
	£ %
4 crivide	TCM 4= 2T(===)+ cn
	Ten=2kT(n/2k)+k.cn.
	+ n=2k.
THE HOSE HOSE conquer.	7(2k)=27(1)+k.c.2k.
1 DDD	k k
,	$T(2^{k}) = 2R + k \cdot c' \cdot 2^{k}$
- Raugen	$T(2^{k}) = 2^{k} + k \cdot c \cdot 2^{k}$. $T(n) = 2^{(uf_{2}n)} + k \cdot c \cdot (uf_{2}n) \cdot n \cdot c$
	T(n) = n+ (.h-lee h
	T(n)=n+ C.h-logan. i.O (inlogh)
	(magni)
$7 = 2 \qquad b=2 \qquad d=1$ $7 = 0 (nd lopn) as c$ $= 0 (n lupn)$	
Tenz O(ndlopn) as c	1=hefp a
= O(h hufn)	