

5) void	I help (heap&h, int i, int r if (h[i]){	n) { // recursively ad	ld m to each no	ode celou i	
	h[i]+= m; help(h, h[i] → left	51000 00			
	help(n, h[i] > right	-> Index, m);			
3					
heaf	p add (heap h, int i, iv help (h, i, m);	1t m){	1/0(lg(n))		
	help(h, i, m); $1/O(n)$ for (; i!= 0; $i = h[i]$ $h[i] \rightarrow parent \rightarrow hea$	pify; //O(g(d))	70(3,7)		
3 Con	$upexity = O(n + (g^2n))$	= O(n)			
			1 101 0 06 410	10000 110111	
6000	a wax heap implemented in ause in a max heap th	e root is the maxim	not value, and w	hen implemented	in an array.
the	values are stored in ord	er from top to boto	m, from right to l	eft. Since the r	oof is the
40%-	most value, it will be	the first value of	the array		
1) Yes.	voes a variable, initialism	e it to O, every	time you inser	t into the priori	y O queue
pass	Map a variable, initialish the variable as the remove Highest Priority ()	priority then	decrement the	variable. To dequ	neve an elevent
Just	remove tighest triority ()	trom the brounty o	ueue.		