		H		+	dassm	
1		Home Was	rk She	€ <u></u>	Date Page 41	7
Jay-37/1	(80)	60100				
		Will a series of the series of	$\frac{1}{2}$			
1.	Prone t	hat the back() of er	owerage	time com	plenty of	
	pagh	back() of ex	ation in	Vector	is 6(f)	time
	Lector cint > 0; As we can observe in table					
	for ( int $i = 31$ ; $i = m$ ; $i + t$ ) Average = $2^{m+1} - 1$ .  U. push back (i): T.C. $2^m$					
	Jor ( uni	-push bac	n; i++)	Average =	$\frac{2^{m+1}-1}{2^m} = \frac{2^m}{2^m}$	21 1
	Avelage T.C	$\frac{1}{1-2}\left(\frac{2-1}{2^n}\right) = 0$		1		
	0		- Hence, from		$\frac{2-1}{2^m} \approx 1.$	
	12 / Capa	city of 10 Size of	f v Operation	ms on U lotal Cy	herations Average (	(Total) (01)
	1-20	1 1	1	1:	21-1 1	0(1)
	2=21	$\frac{2}{1}$	3	3 =	$2^2-1$ 1.5	((3)
	4-12		1	7=7	131 1.75	6(1)
ww go	5 8		5	12	2.4	0(1)
-htl ic=m	6 8		1	13	2.16	
	8,38	8	1	15=24		0(1)
		16 9	9	24	2.6	
,	10 16		$\frac{1}{1}$	25	2.36	
	12 16		1	27	2.25	
-	13/16	1.3	1 1	28	2.15384	
	162 14	5 16	1	31=25-1	1.93	0(1)
	1			, ,	13.10	5(1)
		2   32	1 -	6 3 = 2 = 1	1.96	0(1)
4	2/2/2	$\frac{1}{2}m$	1	2~-1	1	$=  \mathcal{O}(1) $