r	Grids								
	$[a_1]$	$[a_1] \times [a_2]$	$[n]^2$	$[a_1] \times [a_2] \times [a_3]$	$[n]^3$	$\cdots$	$\prod_{i=1}^{d}[a_i]$	$[n]^d$	$[2]^d$
$r=0$	0	0	0	0	0		0	0	0
$r=1$	1	1	1	1	1		1	1	1
$r=2$	$\left\lceil \frac{a_1-1}{2} \right\rceil + 1$	$\left\lceil \frac{a_1+a_2-2}{2} \right\rceil + 1$	n	$\left\lceil \frac{a_1+a_2+a_3-3}{2} \right\rceil + 1$	$\left\lceil \frac{3(n-1)}{2} \right\rceil + 1$		$\left\lceil \frac{\sum_{i=1}^{d}(a_i-1)}{2} \right\rceil + 1$	$\left\lceil \frac{d(n-1)}{2} \right\rceil + 1$	$\lceil \frac{d}{2} \rceil + 1$
$r=3$	**???**	**???**	$\left\lceil \frac{n^2+2n+4}{3} \right\rceil^*$	**S.A. bound**	n^2		**???**	**???**	$\left\lceil \frac{d(d+3)}{6} \right\rceil$