

*process of extending the Array*

number of accupied cells	lenght of the extended array
1	1
2	2
3	4
4	4
5	8
6	8
7	8
8	8
9	16
10	16
11	16
12	16
13	16
14	16
15	16
16	16
17	32
18	32
19	32
20	32
21	32
22	32
23	32
24	32
25	32
26	32
27	32
28	32
29	32
30	32
31	32
32	32
.	
.	
.	
n	$2^{*(n-1)}$
.	$2^{*(n-1)}$
.	$2^{*(n-1)}$
.	$2^{*(n-1)}$
$2^{*(n-1)}$	$2^{*(n-1)}$

$$2^{*(n-1)+1}$$

$$2^{*(2^{*(n-1)})}$$