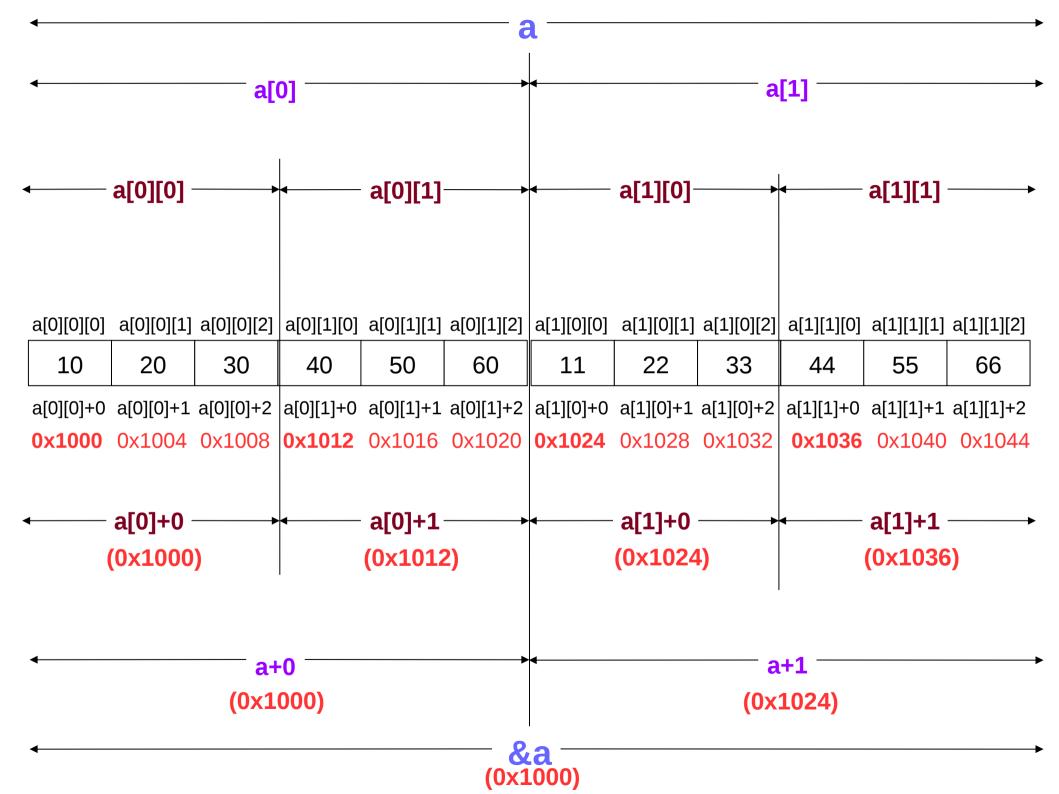
3D - Array

It's a collection of 2D-arrays.

```
Syntax : Datatype arr[row1][row2][col];
row1 ---> no.of 2D arrays.
row2 ---> no.of 1D arrays in each 2D array.
col ---> no.of elements in each 1D array.

Ex : int a[2][2][3] = { { {10,20,30},{40,50,60} }, { {11,22,33}, {44,55,66} } };
2 - 2D arrays
2 - 1D arrays in each 2D array
3 - elements in each 1D array
```



---> a[i][j] + k

1. sizeof a	 row1*row2*col*sizeof(a[0][0][0]);
2. sizeof a[0]	 row2*col*sizeof(a[0][0][0]);
3. sizeof a[0][0]	 col*sizeof(a[0][0][0]);
4. sizeof a[0][0][0]	 sizeof(datatype);
5. row1	 sizeof a/sizeof a[0];
6. row2	 sizeof a[0]/sizeof a[0][0];
7. col	 sizeof a[0][0]/sizeof a[0][0][0];
8. a	 Base addr (0x1000)
9. a+1	 Base addr + sizeof a $[0]$; (0x1024)
10. &a	 Base addr; (0x1000)
11. &a+1	 Base addr + sizeof a; (0x1048)
12. a[0]	 Base addr (0x1000)
13. a[0]+1	 Base addr + sizeof $a[0][0]$; $(0x1012)$
14. a[0][0]	 Base addr (0x1000)
15. a[0][0]+1	 Base addr + sizeof $a[0][0][0]$; $(0x1004)$
16. a[0][0][0]	 value of 1^{st} 1D array of 1^{st} 2D array(10);
17. a[0][0][0]+1	 value+1;

