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# Memset () function:
⇒ used to fill a block of memory with a particular value.
Syntax: void * memset (void * ptr , int value, size-t num)
            [REFER TO GET OSA notes]
                     VECTORS
                 記述 欧北 [5] = 行り 3, 4, 63;
            -> Data structure (1) traits traits
            → Same as array, but dynamic

→ no fixed size.

→ defoult size = 0
          Inserted and the size gets doubled.
           > pass by value in functions.
  Concern: the concept of doubling the orge of vector can
         lead to memory wastage.
   Inetialisation:
        vector (ent) arr {10,20,30}; -> [10/20/30
        vector (int) arr (5); -> [0 0 0 0]
        vector (int) are (5,-2); \rightarrow \begin{bmatrix} -2 & -2 \end{bmatrix}
        Ent n; con>>n; det n=5
        vector (int) arr (n);
        vector (ent) are (n,10); -> 10/10/10
```

arr. push_back (5);

vector Lint > ass;

arr. size () $\rightarrow 0$ arr. capacity () $\rightarrow 0$

Remove:

arr. pop_back (5);

arr. size (); -> no. of elements et stores

Empty or not: arr. empty(); -> true, if empty.

arr. capacity(); * by 2, if array gets fully filled and a new element no of elements it les then Enserted. can otore.

En Initialisation, capacity = size in all methods of Insticelisation.

Of Find the unique element in array. Every element occurs twice except one elements

c/p: {1,2,4,2,1,4,6)}

O/p: 3

[using xor operator]

XOR -> concels out same element.

Tip: for output of array:

cout << ralue << ee_ ";