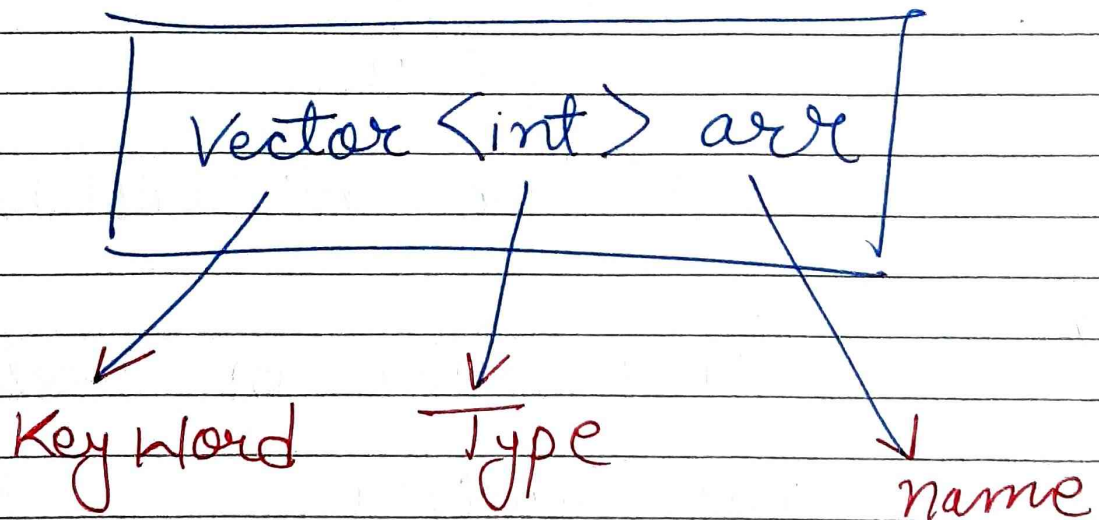


Array - 2

① What is a vector:-

Vector is an dynamic array whose size is not fixed

② How to declare a vector



Note:-

Visit cplusplus.com for more reference.

→ default size of vector is zero

③ How to initialize a vector

→ `vector<int> arr(10, 20, 30);`

→ `vector<int> arr(10, -1);`

Creating vector in run time

```
int n;  
cin >> n;  
vector<int> arr(n);
```

← Creating vector in runtime

④ Library function of vector

① `push_back(5)`

② `pop_back();`

③ `size();`

④ `empty();`

Size of array:

The no of elements present in array.

Capacity of array:

No of elements it can hold.

[Size() → No of element
Capacity → Ability to store

* **Note** → When you explicitly mention the size of vector then the Capacity is also get same as Size.

⑤ **Question to perform:**

- ① Find Unique element in array
- ② Union of 2 arrays
- ③ Intersection of 2 arrays

(4) Duplicate elements in array

(5) Two pair sum

(6) Triplet Sum

(7) Four Sum

(8) Sort 0 and 1

(9) Left rotate an Array by
1 element

(10) Majority element in an
Array

(11) Buy and Sell stock (Level-1)