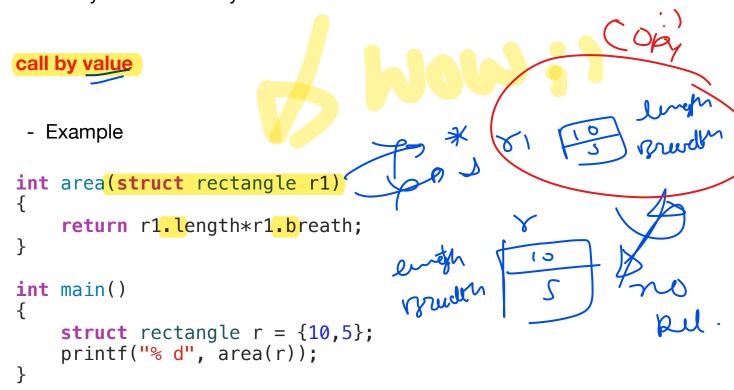
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heap tweek D?

## **Structure as Parameter**

 If we are sending structure as a parameter to a structure it may be call by value or call by address



- A separate object will be created in call by value method and everything will be copied in the corresponding members this is one of the befit of structure as parameter
- If you are making changes to formal parameter it will not effect the actual parameter

## call by reference

- Example

```
int area(struct rectangle &r1)
{
    return r1.length*r1.breath;
}
int main()
{
    struct rectangle r = {10,5};
    printf("% d", area(r));
}
```



- The only change we need to do for call by reference is adding & in the parameter
- Here the new object is not created but the same object is called r1 also
- Thus new changes in the values will effect the actual parameters



- Example

```
Void changeLength(struct rectangle *p , int l)
{
     p \rightarrow length = l;
              make main func as manager who just assign orders to other functions and not doing work by
int main()
     struct rectangle r = {10,5};
     ChangeLength(&r, 20);
}
```

If you want some function to change the actual parameter then it must be done by call by address or call by reference void fun(Struct Test t1){ t1.A[0]=10; //won't change original

}

It is possible to send array as a parameter in pass by value **only** if its inside the **structure**, if its just array passing then its not possible by pass by value

```
can we send struct by call by value? yes
can we send array by call by value? no ,only by call by address
juggad .....array inside stuct :
struct Test{
int A[5]:
                                                                                            "to avoid too much time
int n;
                                                                                            consuming to copy
};
                                                                                            each stuff of array...
                                                                                            thats whay compiler
                                                                                            dont allow array call by
                                                                                            value"
struct Test t=\{\{2,4,6,8,10\},5\};
fun(t)
                                                                                             but inside of
                                                                                             structure, they allow it
```