

# C Language

## union



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# Agenda

- ① union
- ② union vs structure

# Union

Union is just like structure, use to create custom data type.

Syntax is same as of structure except that the struct keyword is replaced by union keyword

```
union MyType  
{  
    int a;  
    double b;  
};
```

A union type variable consumes memory equal to the max memory taken by the union member variable.

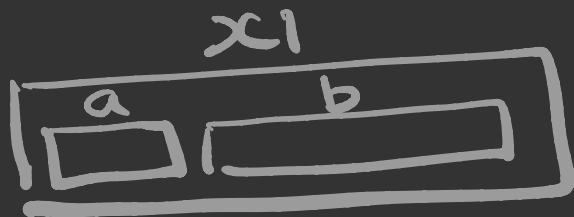
# struct vs union

struct X

```
{  
    int a;  
    double b;  
};
```

struct X x1, x2;

sizeof(x1)



4 + 8 = 12 bytes

x1.a = 5;

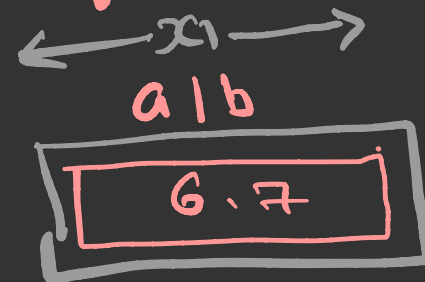
x1.b = 6.7;

union X

```
{  
    int a;  
    double b;  
};
```

union X x1, x2;

sizeof(x1)



8 bytes

x1.a = 5;

x1.b = 6.7;