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What is Union?

- In C++, a union is a user-defined data type that <u>allows you to use the same memory location for different types of data</u>.

- The main reason to use a union is to save memory.

Example:

```
union MyUnion
{
    int intValue;
    float floatValue;
    char charValue;
};
```

Note: the size of a union is determined by the size of its largest member.

Unlike structures, where each member has its own memory space, members of a union share the same memory space.

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Be careful:

- Keep in mind that unions have some limitations and should be used with caution because they can lead to undefined behavior if not used properly.

- When one member of the union is accessed, you should be careful about which member was last assigned a value.

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Thank You

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