

Structs and Unions

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struct

- Student attributes
 - Name
 - Sex
 - Age
 - Degree

struct

```
struct student
{
    char name[20];
    char sex;
    int age;
    char degree[20];
}
```

struct example

```
struct student
{
    char name[20];
    char sex;
    int age;
    char degree[20];
};
```

struct example

```
main()  
{  
    struct student s1;  
    strcpy(s1.name, "Nalini");  
    s1.sex = 'F';  
    s1.age = 45;  
    strcpy(s1.degree, "PhD");  
}
```

union example

```
union student
{
    char name[20];
    char sex;
    int age;
    char degree[20];
};
```

union example

```
main()  
{  
    union student s1;  
    strcpy(s1.name, "Nalini");  
    s1.sex = 'F';  
    s1.age = 45;  
    strcpy(s1.degree, "PhD");  
    printf("%s\n", s1.name);  
    printf("%c\n", s1.sex);  
    printf("%d\n", s1.age);  
    printf("%s\n", s1.degree);  
}
```

union example

```
main( )
{
    union student s1;
    strcpy(s1.name, "Nalini");
    s1.sex = 'F';
    s1.age = 45;
    strcpy(s1.degree, "PhD");
    printf("%s\n", s1.name); /* PhD */
    printf("%c\n", s1.sex); /* P */
    printf("%d\n", s1.age); /* 4483152 */
    printf("%s\n", s1.degree); /* PhD */
}
```