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## What Is String Library Functions In C:

- In C, the string library provides a set of functions that allow you to work with strings.
- These functions are declared in the header file.

## Some Commonly Used String Library Functions In C:

### 1. strlen():

- Calculates the length of a string (excluding the null terminator).



```
#include <string.h>
size_t strlen(const char* str);
```

## 2. strcpy():

- Copies a string from one location to another.



```
#include <string.h>
char* strcpy(char* destination, const char* source);
```

## 3. strcat():

- Concatenates (appends) one string to the end of another.



```
#include <string.h>
char* strcat(char* destination, const char* source);
```

## 4. strcmp():

- Compares two strings and returns an integer indicating their relationship (lexicographically).



```
#include <string.h>
int strcmp(const char* str1, const char* str2);
```

## 5. strncmp():

Compares two strings up to a specified number of characters and returns an integer indicating their relationship.



```
#include <string.h>
int strncmp(const char* str1, const char* str2, size_t n);
```

## 6. strchr():

- Searches for the first occurrence of a character in a string and returns a pointer to that location.



```
#include <string.h>
char* strchr(const char* str, int character);
```

## 7. strstr():

- Searches for the first occurrence of a substring in a string and returns a pointer to that location.



```
#include <string.h>
```

```
char* strstr(const char* str1, const char* str2);
```

## 8. sprintf():

- Formats and stores a series of characters into a string (similar to printf).



```
#include <stdio.h>
int sprintf(char* str, const char* format, ...);
```

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