

C library function - strncpy()

Description

The C library function **char *strncpy(char *dest, const char *src, size_t n)** copies up to **n** characters from the string pointed to, by **src** to **dest**. In a case where the length of **src** is less than that of **n**, the remainder of **dest** will be padded with null bytes.

Declaration

Following is the declaration for **strncpy()** function.

```
char *strncpy(char *dest, const char *src, size_t n)
```

Parameters

- **dest** – This is the pointer to the destination array where the content is to be copied.
- **src** – This is the string to be copied.
- **n** – The number of characters to be copied from source.

Return Value

This function returns the final copy of the copied string.

Example

The following example shows the usage of **strncpy()** function. Here we have used function **memset()** to clear the memory location.

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

int main () {
    char src[40];
    char dest[12];

    memset(dest, '\\0', sizeof(dest));
    strncpy(src, "This is tutorialspoint.com");
    strncpy(dest, src, 10);

    printf("Final copied string : %s\\n", dest);
}
```

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```
return(0);  
}
```

Let us compile and run the above program that will produce the following result –

```
Final copied string : This is tu
```